

**Stream Condition Assessment  
Hurricane Harvey Repairs Project  
8.27 miles Channels III-A, III-C to III-F  
Spring, Montgomery County, Texas**

**SWG-2018-00952**

**Prepared for  
Montgomery County Drainage District 6  
c/o Huitt-Zollars, Inc.  
Houston, Texas**

**Prepared by:  
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## Contents

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LIST OF TABLES .....	ii
LIST OF FIGURES & APPENDICES .....	ii
EXECUTIVE SUMMARY .....	1
1 INTRODUCTION .....	2
1.1 LOCATION AND PROJECT ALIGNMENT DESCRIPTION .....	2
1.2 PURPOSE .....	3
1.3 DETAILED SCOPE OF WORK FOR THE STREAM CONDITION ASSESSMENT .....	3
1.4 METHODOLOGY .....	3
1.4.1 ORDINARY HIGH WATER MARK AND WETLANDS DELINEATION .....	3
1.4.2 CHANNEL CONDITION PARAMETER .....	4
1.4.3 RIPARIAN BUFFER PARAMETER.....	4
1.4.4 VISUAL CHANNEL ALTERATION PARAMETER.....	5
1.4.5 IN-STREAM MACROINVERTEBRATE OBSERVATION PARAMETER .....	5
1.4.6 REGIONALIZED INDEX OF BIOTIC INTEGRITY (FISH) PARAMETER .....	6
1.5 FINDINGS.....	7
1.5.1 EXISTING CONDITIONS .....	7
2 EVALUATING, AVOIDANCE, MINIMIZATION, STREAM RESTORATION PROJECTS AND COMPENSATORY MITIGATION PLANS .....	47
3 PROCEDURE FOR IMPACT ASSESSMENT (DEBITS) .....	48
4 DETERMINATION OF COMPENSATION (CREDITS).....	92
5 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS.....	92



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**LIST OF TABLES**

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Table 1: Level 2 Stream Condition Assessment Data Form Summary

Table 2: Theoretical Level 2 Stream Condition Assessment Data Form Summary

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**LIST OF FIGURES & APPENDICES**

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Figure 1: Project Location Map

Appendix A: Project Alignment Transect Maps & Coordinates

Appendix B: OHWM Data Attribute Table

Appendix C: Level 2 Stream Condition Assessment Data Forms

Appendix D: TCEQ 2019 Tolerance Values for Benthic Macroinvertebrates.

Appendix E: Aerial Photographs

Appendix F: Site Photographs

Appendix G: Theoretical Level 2 Stream Condition Assessment Data Forms

Appendix H: Stream Condition Assessment Summary Form

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## EXECUTIVE SUMMARY

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Wild Associates LLC (WA) was retained by Montgomery County Drainage District 6 (MCDD6) to provide a Level 2 Stream Condition Assessment (SCA) for an 8.27-mile drainage ditch comprised of Channels III-A, III-C, III-D, III-E, and III-F (Project Alignment), located in Spring, Montgomery County, Texas.

This study was performed under the guidance of the U.S. Army Corps of Engineers (Corps) Galveston District to evaluate the impacts of the proposed Hurricane Harvey Repairs Project for the Project Alignment. MCDD6 has received FEMA funds to construct 21 repairs within the following 16 Transects: T-45, T-48, T-53, T-54, T-57, T-60, T-61, T-62, T-65, T-66, T-68, T-69, T-70, T-76, T-79, and T-80, which include repairs to side slopes and channel bottoms damaged by Hurricane Harvey. The work for this report was conducted in accordance with WA Proposal P20-017, dated September 1, 2020, as authorized by Mr. John B. Planchard on September 9, 2020.

The *Interim Level 2-Stream Condition Assessment Procedure for Intermittent Streams with Perennial Pools, Perennial Streams and Wadeable Rivers with Impacts Greater than 500 Linear Feet* was used to assess the quality of the channel by sampling the following five parameters in the field: Visual Channel Assessment, Riparian Buffer Assessment, Visual Channel Alteration Assessment, Rapid In-Stream Macroinvertebrate Observation, and Regionalized Index of Biotic Integrity for Fish. The channel was divided into 80 350-ft Transects spaced 125 ft to 200 ft apart, and each was scored according to the five parameters above. The 80 Transects' scores were averaged, and a final Reach Condition Index score of 2.00 was obtained for the Project Alignment. Then the project was scored based on the proposed repairs, and the delta between the two was found. The Theoretical score for the project is 2.00. The dRCI is zero, resulting in zero debits.

Compensation is not required for this project due to only temporary impacts.

## 1 INTRODUCTION

Wild Associates LLC (WA) was retained by Montgomery County Drainage District 6 (MCDD6) to provide a Level 2 Stream Condition Assessment (SCA) for an 8.27-mile drainage ditch comprised of Channels III-A, III-C, III-D, III-E, and III-F (Project Alignment), located in Spring, Montgomery County, Texas.

This study was performed under the guidance of the U.S. Army Corps of Engineers (Corps) Galveston District to evaluate the impacts of the proposed Hurricane Harvey Repairs Project for the Project Alignment. MCDD6 has received FEMA funds to construct 21 repairs to Channels III-D and III-F falling within the following sixteen Transects: T-45, T-48, T-53, T-54, T-57, T-60, T-61, T-62, T-65, T-66, T-68, T-69, T-70, T-76, T-79, and T-80, which includes repairs to side slopes and/or channel bottoms damaged by Hurricane Harvey.

### 1.1 LOCATION AND PROJECT ALIGNMENT DESCRIPTION

The Project Alignment is situated along the 8.27-miles-long drainage ditch comprised of Channels III-A, III-C, III-D, III-E, and III-F. The descriptions of each named Channel are as follows:

Ditch	Beginning/End Coordinates	Location Description
Channel III-A T-1 to T-11	30.169406°, -95.450447° to 30.163578°, -95.438333°	From W Interstate 45 Service Road, 295 ft south of School Driveway east 0.55 mi., turns south 0.25 mi., 0.09 mi. east, and 0.2 mi. southeast crossing Woodson Rd. to Hanna Rd.
Channel III-C T-11 to T-32	30.163578°, -95.438333° to 30.138646°, -95.427406°	From Hanna Rd 0.16 mi. south of its intersection of Woodson Rd. east 0.05 mi., turns south 0.11 mi., turns east 0.33 mi., turns south 0.48 mi. crossing Robinson Rd., southeast 0.12 mi., east 0.12 mi., and south 1 mi. to confluence of Channel III-D.
Channel III-D T-39 to T-61	30.138611°, -95.428625° to 30.122795°, -95.403111°	From 0.07 mi. west of confluence with Channel III-C 1.12 mi. east crossing Imperial Oaks Blvd., turns southeast 0.4 mi., turns south 0.51 mi., turns southeast 0.14 mi, turns south 0.15 mi. to Rayford Rd.
Channel III-E T-33 to T-38	30.140654°, -95.436205° to 30.138611°, -95.428625°	From 0.08 mi. northwest of the cul-de-sac of W. Clady Dr. southeast 0.3 mi., turns east 0.12 mi. crossing Hanna Rd. and railroad tracks, turns northeast 0.1 mi., and turns east 0.12 mi.
Channel III-F T-61 to T-80	30.122795°, -95.403111° to 30.098328°, -95.409885°	From Rayford Rd. south 0.45 mi., turns southwest 0.3 mi., turns south 0.76 mi., turns southwest 0.28 mi., turns northwest 0.16 mi. to Spring Creek.

The Project Alignment is predominantly a maintained, grassy right-of-way containing a conventional, trapezoidal-shaped, engineered ditch. See Figure 1 – Project Location Map.

## 1.2 PURPOSE

The purpose of the SCA was to assess the functional condition of the channel to be impacted and then use that condition as a baseline to determine if compensation is required. The process used for the SCA is described in the *US Army Corps of Engineers – Galveston District Interim Level 2 – Stream Condition Assessment Procedure for Intermittent Streams with Perennial Pools, Perennial Streams and Wadeable Rivers with Impacts Greater than 500 Linear Feet*. To assess the condition of a stream, the procedure required five parameters sampled in the field. These include: 1) Visual Channel Assessment; 2) Riparian Buffer Assessment; 3) Visual Channel Alteration Assessment; 4) Rapid In-Stream Macroinvertebrate Observation; and 5) Regionalized Index of Biotic Integrity for Fish. The unit used to evaluate stream impacts is the stream assessment transect (Transect). The 8.27 mi. Project Alignment is broken down into 80 Transects of 350 ft with 125- to 200-ft spacings between.

## 1.3 DETAILED SCOPE OF WORK FOR THE STREAM CONDITION ASSESSMENT

The work for this report was conducted in accordance with WA Proposal P20-017, dated September 1, 2020, as authorized by Mr. John B. Planchard on September 9, 2020.

WA environmental professionals conducted the field program necessary to collect the data for the five parameters outlined above between September 28 and October 17, 2020 and November 18, 2020. Because the review period by Texas Parks and Wildlife Department (TPWD) necessary to obtain the Scientific Collection Permit went beyond the September cut-off for the SCA method, permission was granted via an email, dated September 16, 2020, by Mr. Brian Bader of the Corps to collect fish into October. Specific methodologies for each parameter are discussed in the appropriate sections below. The 80 Transects were laid out first on Google Earth by measuring the required 350-ft length with 125-ft to 200-ft spacings between. Each transect was marked in the field by a flag labeled with the Transect abbreviation (T-1, T-2, etc.) placed at the top and bottom of the Transect along the Ordinary High Water Mark (OHWM). Flags were placed using the coordinates generated in Google Earth and a Trimble Geo 7X handheld GPS unit. An overview Transect map and list of coordinates is provided in Appendix A – Project Alignment Transect Maps & Coordinates.

## 1.4 METHODOLOGY

### 1.4.1 ORDINARY HIGH WATER MARK AND WETLANDS DELINEATION

Aquatic resources were delineated in accordance with *Regulatory Guidance Letter 05-05-Ordinary High Water Mark Identification*, and wetlands present in the stream and/or riparian buffer were evaluated in accordance with the *1987 Corps of Engineers Wetland Delineation*

*Manual and the Atlantic and Gulf Coast Plain Regional Supplement. See Appendix B – OHWB Data Attribute Table.*

#### 1.4.2 CHANNEL CONDITION PARAMETER

Anthropogenic modifications within a stream or its watershed can influence flow hydraulics, sediment patterns, and channel morphology of a stream resulting in increased stream channel instability, reduced physical and biological functions of rivers, increased land loss from erosion, and production of a major source of non-point pollution associated with increased sediment supply. The guidance document states for a Level 2 SCA, channel condition is assessed based on *A Practical Method of Computing Streambank Erosion Rate* (Rosgen 2001), which involves collecting field data within five metrics on streambank characteristics to calculate a bank erosion hazard index (BEHI) for use in identifying the Channel Condition Variable. However, in an email dated September 16, 2020, with Mr. Bader, WA was given the option to use the Level 1 SCA Channel Variable procedure instead of the Level 2 SCA BEHI due to known problems with the Level 2 methodology and because the Project Alignment consists of ditches that are straight and channelized. The methodology used, Level 1 Visual Channel Condition Variable, requires the evaluator to assess channel stability by looking for visual indicators of stability or instability. Five categories are given, 5-Optimal, 4-Suboptimal, 3-Marginal, 2-Poor, and 1-Severe, and are presented with a representative picture of a channel, description of geometry, stability indicators, and floodplain access that make up each. The score 1-5 assigned to each category above becomes the Channel Condition Variable (CV) for the Transect. Scoring for each Transect within the Project Alignment is shown in Section 1 of the Level 2 Stream Condition Assessment Data Form located in Appendix C and is summarized in Table 1 in the Findings section. All Transects scored 1-Severe due to deep incision, bank sloughing, erosional scars, being disconnected from the active floodplain, and channelization.

#### 1.4.3 RIPARIAN BUFFER PARAMETER

A Riparian Buffer is defined as the zone of vegetation adjacent to streams, rivers, creeks, or bayous. These vegetated zones are important in intercepting and controlling nutrients and sediment entering the system. The Riparian Buffer Assessment is a qualitative evaluation of the cover types that make up the riparian buffer for each Transect. The score for Buffer Value (BV) is determined by evaluating the percentage of each cover type occupying the buffer area for 100 ft on each side of the OHWB of the stream within the Transect.

The left bank (LB) and right bank (RB) are determined by facing downstream. BV is calculated using the following formulas:

$$\begin{aligned}\text{Right Bank BV} &= (\text{Sum \% Riparian Area} \times \text{Score} \times 0.01) \\ \text{Left Bank BV} &= (\text{Sum \% Riparian Area} \times \text{Score} \times 0.01) \\ \text{BV} &= (\text{Right Bank BV} + \text{Left Bank BV}) \div 2\end{aligned}$$

The resulting BV will be a score between 1-Severe and 5-Optimal. Scoring for each Transect

within the Project Alignment is shown in Section 2 of the Level 2 Stream Condition Assessment Data Form located in Appendix C and is summarized in Table 1 in the Findings section. The Riparian Buffers are predominantly maintained ROW with businesses, forested areas, residential areas, and roads along the outskirts and scored between 1.58-Severe and 3.29-Low Suboptimal.

#### 1.4.4 VISUAL CHANNEL ALTERATION PARAMETER

This parameter considers direct impacts to the stream channel from anthropogenic sources such as channelization, bridges, riprap, spoil piles, culverts, or livestock. The Channel Alteration Variable (AV) was determined by assessing the extent of anthropogenic channel alterations and scoring the Transect based on the six categories of 5-Negligible, 4.5-High Minor, 4-Low Minor, 3-High Moderate, 2-Low Moderate, and 1-Severe. Scoring for each Transect within the Project Alignment is shown in Section 3 of the *Level 2 Stream Condition Assessment Data Form* located in Appendix C and is summarized in Table 1 in the Findings section. The Transects scored 1-Severe due to being constructed straight, channelized, presence of rip rap, drop structures, bridge crossings, concrete aprons, and culverts.

#### 1.4.5 IN-STREAM MACROINVERTEBRATE OBSERVATION PARAMETER

This assessment is used to evaluate biological integrity of the stream using the rapid sampling method for benthic macroinvertebrate populations. Macroinvertebrate observation and collection were based on the guidelines outlined in the *Interim Level 2-Stream Conditional Assessment Procedure for Intermittent Streams with Perennial Pools, Perennial Streams, and Wadeable Rivers with Impacts Greater than 500 Linear Feet*. Benthic macroinvertebrate collection was conducted under TPWD Scientific Collection Permit Number SPR-0920-137, dated September 18, 2020, issued to Dr. Elizabeth H. Silvy, a fisheries biologist with experience in macroinvertebrate collection and identification and also Adjunct Professor of Biology at Lamar University; the permit was amended to include an additional sub-permittee on October 2, 2020. The predominant substrate types in the project were gravel, cobble, and clay. Sampling was done in accordance with standard kicknet procedure in riffles, runs, and glides. A standard D-frame kicknet with a mesh size of <500 µm was used for the standard kicknet sampling procedure. The net was placed straight-edge down on the stream bottom, close to the stream bank and the downstream edge of a riffle or run with the opening facing upstream; thereafter, using the toes or heels of boots, the substrate encompassing approximately 0.3 square feet immediately upstream of the net was disturbed. The dislodged material was then allowed to be carried to the net by the current. In places where current was not present, the net was often used to dig into the bottom substrate to collect specimens.

Snag sampling was modified in areas where the substrate was clay, and a standard D-frame kicknet was used to agitate stream-side vegetation and collect specimens in the net. A total of 10 samples using standard kicknet sampling and modified snag sampling were performed in each transect. The typical kicknet procedure was used at least twice in each transect, and

then professional discretion was used to ascertain the most effective methodologies for collection in the other eight samples taken in a transect. Both collection procedures continued in a zig-zag pattern upstream until 10 collection efforts were made or 100 specimens were collected. Specimens were removed from the net using plastic forceps and placed in small glass jars containing 25% ethanol and 75% water for identification and enumeration at the lab. Benthic macroinvertebrates were enumerated and identified by Dr. Silvy.

The Macroinvertebrate Variable (MV) is assessed by the Hilsenhoff Biotic Index (HBI). The index weights the relative abundance of each taxon in terms of its pollution tolerance in determining a community score. In general, the index increases as the relative abundance of tolerant taxa increases. The increase of these tolerant taxa is due to increasing degradation of physicochemical conditions. The HBI is calculated and then translated into Optimal, Suboptimal, Marginal, Poor, or Severe based on the HBI ranges assigned to each. The metric is based on the following formula:

$$HBI = \sum (t_i * x_i) / N$$

Where  $t_i$ =tolerance value,  $x_i$ =number of individuals in taxon,  
and N=total number individuals in all samples.

N only counts organisms from taxa that have assigned tolerance values. Table 3 in Section 2.4.2 of the guidance document lists the tolerance values for calculating the HBI and is dated 26 March 2014. Texas Commission on Environmental Quality (TCEQ) published an updated list May 2014. WA was granted permission by Mr. Bader via phone call on October 21, 2020, to use the updated list. The updated list is included in Appendix D – TCEQ 2019 Tolerance Values for Benthic Macroinvertebrates. WA collected one organism in multiple Transects that was not on the tolerance list. It is named on the Data Forms of the Transects in which it was collected, below the totals, because it was not included in the calculations. Scoring for each Transect within the Project Alignment is shown in Section 4 of the Level 2 Stream Condition Assessment Data Form located in Appendix C and is summarized in Table 1 in the Findings section. The Transects scored between 2.00-Poor and 5.00-Optimal.

#### 1.4.6 REGIONALIZED INDEX OF BIOTIC INTEGRITY (FISH) PARAMETER

This parameter utilizes sampling of fish populations to evaluate biological integrity of the stream. Sampling was conducted under the same TPWD Scientific Collection Permit as referenced above. Guidelines outlined in the *Interim Level 2-Stream Condition Assessment Procedure for Intermittent Streams with Perennial Pools, Perennial Streams, and Wadeable Rivers with Impacts Greater than 500 Linear Feet* were followed. Professional judgment was used to identify the appropriate sampling equipment. A 20-foot seine with 4.8-mm mesh was employed as the primary method for fish collection. The sampling crew consisted of a minimum of three persons. Six (20-foot seine) hauls were performed for each transect, and sampling continued until no new species were collected. If the seine got caught on woody debris or riprap the haul was considered ineffective, and a new haul was performed to achieve six successful seine hauls. Seine hauls that captured no specimens were not considered



ineffective and contributed to the six total seine hauls. Seining was conducted in an upstream direction. There was minimal current along the Project Alignment, and the ditch was considered primarily stagnant. The six seine hauls were conducted in three different approaches. Approach A was to drag the seine upstream and corral the fish against a bank. Approach B was to string the seine from bank to bank while a third person walked downstream to encourage the fish into the seine. Approach C was to place the seine like a large net underneath the stream-side vegetation and gently shake the vegetation to encourage the fish into the seine. It should be noted that Approach C resulted in the largest and most diverse number of specimens. Larger specimens (>12 inches in length) were identified in the field and photographs were taken. All other specimens, unless readily identifiable in the field, were placed in a 25% ethanol 75% water solution in 16-oz jars to be later identified in the lab. Fish were identified and enumerated in the lab using magnification and examined for external deformities, disease, lesions, tumors, and skeletal deformities. Fish were enumerated and identified by Dr. Silvy. Fish were categorized into trophic and tolerance categories in accordance with the tables provided in SCA guidelines. Once the fish were sampled and identified, an aquatic life score was calculated based on metrics specific to the Level III Ecoregion in which the project falls. Montgomery County is in Ecoregion 35-South Central Plains and the Panther Branch-Spring Creek drainage basin (76 KM<sup>2</sup>- HUC 120401020212). Each metric results in a score of 1, 3, or 5, and the sum of the metrics equals the Aquatic Life Use Score. The scoring categories within the Fish Variable (FV), Exceptional, High, Intermediate, and Limited, have an assigned range of Aquatic Life Use Scores that fall within each. Scoring for each Transect within the Project Alignment is shown in Section 5 of the Level 2 Stream Condition Assessment Data Form located in Appendix C and is summarized in Table 1 in the Findings section. The Transects scored between 2.00-Limited, and 4.00-High.

## 1.5 FINDINGS

### 1.5.1 EXISTING CONDITIONS

The channels making up the Project Alignment were built in approximately 1978 as a part of a larger drainage project within the area. Original construction drawings were located for the channels and show there were several crossings of Sam Bell Gully. The MCDD6 District Engineer stated that the purpose of the proposed repairs is to return the channels to what was originally constructed, which is a trapezoidal channel with an approximate 18-ft wide bottom and 3:1 side slopes.

The following table is a summary of the scores for each of the five parameters on the Level 2 Stream Condition Assessment Data Form located in Appendix C and descriptions of the features that contributed. Aerial photographs showing the outline of each Transect, and OHWM are provided to show the features, which were ground truthed during site reconnaissance, that contributed to the BV scores. See Appendix E – Aerial Photographs. Representative photos of the channel, macroinvertebrates, and fish for each Transect are provided in Appendix F – Site Photographs. The RCI for the Project Alignment is 2.00.



Table 1 - Level 2 Stream Condition Assessment Data Form Summary

Transect 1    30.169442, -95.449849 to 30.169560, -95.448754				
Channel Condition (CV)	Channelization, no floodplain access			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 18% 42% 40% <u>LB</u> 63% 37%	<u>Score</u>  1 2 4.5  1 2	Features: concrete lined channel, trees, school driveway, houses, yards, channel partially sub-grade in culverts	2.10
Channel Alteration (AV)	100% Channelization, 50% concrete lining, 50% sub-grade culvert, no access to floodplain			1.00
In-Stream Macroinvertebrate Observation (MV)	2 different macroinvertebrates collected HBI of 8.00			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.82
Transect 2    30.169564, -95.448152 to 30.169647, -95.447133				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 45% 55% <u>LB</u> 16% 84%	<u>Score</u>  1 2  1 2	Features: Maintained ROW, school parking lot, school track, houses, pools, channel partially sub-grade	1.70
Channel Alteration (AV)	100% Channelization, 25% sub-grade culvert, partial concrete lining/riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 6.42			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.74

Transect 3    30.169653, -95.446529 to 30.169685, -95.445421				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<div><div><div>Percent</div><div>RB</div><div>14%</div><div>86%</div><div>LB</div><div>3%</div><div>97%</div></div><div><div>Score</div><div>1</div><div>2</div><div>1</div><div>2</div></div></div>	Features: maintained ROW, soccer field, Oak Ridge School Rd. ditch, concrete lining at confluence	1.92	
Channel Alteration (AV)	100% Channelization, partial concrete lining, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 6.72			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.78
Transect 4    30.169694, -95.444816 to 30.169691, -95.443703				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<div><div><div>Percent</div><div>RB</div><div>9%</div><div>91%</div><div>LB</div><div>19%</div><div>81%</div></div><div><div>Score</div><div>1</div><div>2</div><div>1</div><div>2</div></div></div>	Features: maintained ROW, road, houses, pedestrian bridge, culverts	1.86	
Channel Alteration (AV)	100% Channelization, 3 culverts, footings for pipeline crossing, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 5.51			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.77

Transect 5    30.169693, -95.443096 to 30.169695, -95.441990				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<div><div><div>Percent</div><div>RB</div><div>48%</div><div>52%</div><div>LB</div><div>9%</div><div>91%</div></div><div><div>Score</div><div>1</div><div>2</div><div>1</div><div>2</div></div></div>	Features: maintained ROW, road, houses, pools, yards	1.72	
Channel Alteration (AV)	100% Channelization, 3 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	7 different macroinvertebrates collected HBI of 5.72			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.74
Transect 6    30.169676, -95.441359 to 30.168801, -95.441150				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<div><div><div>Percent</div><div>RB</div><div>30%</div><div>70%</div><div>LB</div><div>38%</div><div>62%</div></div><div><div>Score</div><div>1</div><div>2</div><div>1</div><div>2</div></div></div>	Features: maintained ROW, houses, pools, yards, parking lot, soccer field, concrete lining, riprap	1.66	
Channel Alteration (AV)	100% Channelization, concrete lining, riprap, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 5.77			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 1.53

Transect 7    30.168251, -95.441151, to 30.167285, -95.441146				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 28% 72% <u>LB</u> 1% 99%	<u>Score</u>  1 2  1 2	Features: maintained ROW, houses, yards, soccer field, playground/school yard	1.86
Channel Alteration (AV)	100% Channelization, 2 culverts, no access to floodplain			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 5.77			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 1.57
Transect 8    30.166732, -95.441147 to 30.165837, -95.440917				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 21% 79% <u>LB</u> 15% 85%	<u>Score</u>  1 2  1 2	Features: maintained ROW, school, houses, yards, concrete lining, drop structure	1.82
Channel Alteration (AV)	100% Channelization, partial concrete lining, riprap, 2 culverts, concrete drop structure, pipeline crossing footings, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 4.89			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.96

Transect 9    30.165832, -95.440290 to 30.165476, -95.439612				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 24% 76% <u>LB</u> 17% 83%	<u>Score</u>  1 2  1 2	Features: maintained ROW, parking lots, concrete lining, road, bridge, sidewalks	1.80
Channel Alteration (AV)	100% Channelization, partial concrete lining, riprap, box culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 5.70			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.76
Transect 10    30.164941, -95.439496 to 30.164081, -95.439003				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 30% 70% <u>LB</u> 45% 55%	<u>Score</u>  1 2  1 2	Features: maintained ROW, structures, parking lots, backyards	1.63
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	12 different macroinvertebrates collected HBI of 5.09			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.93

Transect 11    30.163627, -95.438674 to 30.163579, -95.437584					
Channel Condition (CV)		Channelization, no floodplain access			1.00
Riparian Buffers (BV)	Percent	Score	Features: maintained ROW, gas station, mechanic shop, railroad crossing, Hanna Road, forested area	1.92	
	RB				
	42%	1			
	43%	2			
	15%	4.5			
	LB				
	47%	1			
	39%	2			
14%	4.5				
Channel Alteration (AV)		100% Channelization, partial concrete lining, box culverts under Hanna Road, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)		8 different macroinvertebrates collected HBI of 6.32			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)		1 different fish species collected Aquatic Life Use Score of 34.			2.00
					CI 1.58
Transect 12    30.163089, -95.437404 to 30.162160, -95.437126					
Channel Condition (CV)		Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	Percent	Score	Features: maintained ROW, park/baseball field, parking lot, forested railroad ROW	2.20	
	RB				
	8%	1			
	70%	2			
	22%	4.5			
	LB				
	7%	1			
	93%	2			
Channel Alteration (AV)		100% Channelization, partial concrete lining, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)		7 different macroinvertebrates collected HBI of 5.51			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)		1 different fish species collected Aquatic Life Use Score of 36			3.00
					CI 1.84

Transect 13    30.161973, -95.436572 to 30.162001, -95.435460				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 3% 80% 17% <u>LB</u> 3% 75% 22%	<u>Score</u>  1 2 4.5  1 2 4.5	Features: maintained ROW, concrete drop structure, concrete intake structure, forested area, park	2.46
Channel Alteration (AV)	100% Channelization, concrete drop structure, riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	10 different macroinvertebrates collected HBI of 4.79			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.09
Transect 14    30.162003, -95.434856 to 30.162024, -95.433745				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 8% 67% 25% <u>LB</u> 74% 26%	<u>Score</u>  1 2 4.5  2 4.5	Features: maintained ROW, forested area, lay-down behind business	2.60
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	6 different macroinvertebrates collected HBI of 4.52			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	9 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.32

Transect 15    30.162038, -95.433139 to 30.162055, -95.432027				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 7% 60% 33% <u>LB</u> 84% 16%	<u>Score</u>  1 2 4.5  2 4.5	Features: maintained ROW, grazing, commercial storage containers, forested areas	2.58
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	7 different macroinvertebrates collected HBI of 5.50			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	6 different fish species collected Aquatic Life Use Score of 34.			2.00
				CI 1.72
Transect 16    30.161908, -95.431431 to 30.161020, -95.431034				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 12% 49% 39% <u>LB</u> 7% 47% 46%	<u>Score</u>  1 2 4.5  1 2 4.5	Features: building, parking lot, maintained ROW, concrete lining, forested areas	2.97
Channel Alteration (AV)	100% Channelization, partial concrete lining, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	6 different macroinvertebrates collected HBI of 5.07			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	12 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.19



Transect 17    30.160510, -95.430910 to 30.159546, -95.430815				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 10% 56% 34% <u>LB</u> 78% 22%	<u>Score</u>  1 2 4.5  2 4.5	Features: maintained ROW, parking lot/lay-down yard, concrete intake structure, forested area	2.65
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	6 different macroinvertebrates collected HBI of 4.63			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 34.			2.00
				CI 1.93
Transect 18    30.159023, -95.430792 to 30.158073, -95.430753				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 20% 80% <u>LB</u> 55% 45%	<u>Score</u>  1 2  2 4.5	Features: maintained ROW, building, parking lot, forested area, concrete intake structures	2.46
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 4.12			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	11 different fish species collected Aquatic Life Use Score of 40			3.00
				CI 2.29

Transect 19    30.157549, -95.430749 to 30.156586, -95.430716				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 22% 78% <u>LB</u> 2% 53% 45%	<u>Score</u>  1 2  1 2 4.5	Features: maintained ROW, building, parking lot, riprap, drainage ditch, forested area	2.44
Channel Alteration (AV)	100% Channelization, riprap at confluence with ditch, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	6 different macroinvertebrates collected HBI of 4.78			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	10 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 2.09
Transect 20    30.156060, -95.430701 to 30.155108, -95.430585				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 14% 86% <u>LB</u> 5% 70% 25%	<u>Score</u>  1 2  1 2 4.5	Features: maintained ROW, residential yards, fire station, trees, dirt driveway	2.22
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.53			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	8 different fish species collected Aquatic Life Use Score of 42			4.00
				CI 2.24

Transect 21    30.154696, -95.430208 to 30.153816, -95.429904					
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00	
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 4% 62% 34% <u>LB</u> 4% 72% 24%	<u>Score</u>  1 2 4.5  1 2 4.5	Features: maintained ROW, forested area, structures	2.69	
Channel Alteration (AV)	100% Channelization, 2 culverts, riprap, no floodplain access				
In-Stream Macroinvertebrate Observation (MV)	6 different macroinvertebrates collected HBI of 3.91				
Regionalized Index of Biotic Integrity (Fish) (FV)	8 different fish species collected Aquatic Life Use Score of 36			3.00	
				CI 2.34	
Transect 22    30.153619, -95.429358 to 30.153535, -95.428249					
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00	
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 56% 44% <u>LB</u> 1% 57% 42%	<u>Score</u>  2 4.5  1 2 4.5	Features: maintained ROW, forested areas, concrete lining	3.07	
Channel Alteration (AV)	100% Channelization, partial concrete lining, no floodplain access				
In-Stream Macroinvertebrate Observation (MV)	6 different macroinvertebrates collected HBI of 4.72				
Regionalized Index of Biotic Integrity (Fish) (FV)	6 different fish species collected Aquatic Life Use Score of 36			3.00	
				CI 2.21	

Transect 23    30.153202, -95.427771 to 30.152241, -95.427729				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 77% 23% <u>LB</u> 39% 61%	<u>Score</u>  2 4.5  1 2	Features: maintained ROW, trees, horse stables/pasture	2.09
Channel Alteration (AV)	100% Channelization, 3 culverts, riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	7 different macroinvertebrates collected HBI of 4.89			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	8 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 2.02
Transect 24    30.151713, -95.427733 to 30.150742, -95.427748				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 8% 92% <u>LB</u> 9% 74% 17%	<u>Score</u>  1 2  1 2 4.5	Features: maintained ROW, mobile home park, wastewater treatment plant, metal buildings	2.13
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 5.59			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 30			2.00
				CI 1.63

Transect 25    30.150215, -95.427757 to 30.149251, -95.427759				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 75% 25% <u>LB</u> 90% 10%	<u>Score</u>  2 4.5  2 4.5	Features: maintained ROW, trees, pasture	2.44
Channel Alteration (AV)	100% Channelization, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	7 different macroinvertebrates collected HBI of 4.26			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 30			2.00
				CI 2.09
Transect 26    30.148725, -95.427748 to 30.147757, -95.427713				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 76% 24% <u>LB</u> 100%	<u>Score</u>  2 4.5  2	Features: maintained ROW, forested areas, pasture	2.30
Channel Alteration (AV)	100% Channelization, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.39			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	9 different fish species collected Aquatic Life Use Score of 40			3.00
				CI 2.26

Transect 27 30.147230, -95.427692 to 30.146267, -95.427653				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 87% 13% <u>LB</u> 1% 99%	<u>Score</u>  2 4.5  1 2	Features: maintained ROW, forested areas, backyard, riprap, concrete intake structure	2.16
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 4.79			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	9 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.03
Transect 28 30.145740, -95.427637 to 30.144776, -95.427617				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 79% 21% <u>LB</u> 39% 61%	<u>Score</u>  2 4.5  2 4.5	Features: maintained ROW, forested areas	3.03
Channel Alteration (AV)	100% Channelization, riprap at ditch confluence, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.64			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	9 different fish species collected Aquatic Life Use Score of 40			3.00
				CI 2.21

Transect 29    30.144258, -95.427596 to 30.143286, -95.427565				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<div><div><div>Percent</div><div>RB</div><div>74%</div><div>26%</div><div>LB</div><div>35%</div><div>65%</div></div><div><div>Score</div><div>2</div><div>4.5</div><div>2</div><div>4.5</div></div></div> <div>Features: maintained ROW, forested areas</div>	3.14		
Channel Alteration (AV)	100% Channelization, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	7 different macroinvertebrates collected HBI of 4.42			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	11 different fish species collected Aquatic Life Use Score of 44			4.00
				CI 2.63
Transect 30    30.142772, -95.427549 to 30.141813, -95.427525				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<div><div><div>Percent</div><div>RB</div><div>93%</div><div>7%</div><div>LB</div><div>79%</div><div>21%</div></div><div><div>Score</div><div>2</div><div>4.5</div><div>2</div><div>4.5</div></div></div> <div>Features: maintained ROW, forested areas</div>	2.35		
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.57			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 28			2.00
				CI 1.87

Transect 31    30.141294, -95.427508 to 30.140325, -95.427479				
Channel Condition (CV)		Channelization, no floodplain access, incision, erosional scars		1.00
Riparian Buffers (BV)		<u>Percent</u> <u>RB</u> 86% 14% <u>LB</u> 100%	<u>Score</u>  2 4.5  2	Features: maintained ROW, forested area
Channel Alteration (AV)		100% Channelization, no floodplain access		1.00
In-Stream Macroinvertebrate Observation (MV)		7 different macroinvertebrates collected HBI of 3.35		5.00
Regionalized Index of Biotic Integrity (Fish) (FV)		6 different fish species collected Aquatic Life Use Score of 38		3.00
				CI 2.44
Transect 32    30.139907, -95.427460 to 30.138954, -95.427418				
Channel Condition (CV)		Channelization, no floodplain access, incision, erosional scars		1.00
Riparian Buffers (BV)		<u>Percent</u> <u>RB</u> 79% 21% <u>LB</u> 18% 82%	<u>Score</u>  2 4.5  2 4.5	Features: maintained ROW, forested area
Channel Alteration (AV)		100% Channelization, culvert, no floodplain access		1.00
In-Stream Macroinvertebrate Observation (MV)		8 different macroinvertebrates collected HBI of 3.89		4.00
Regionalized Index of Biotic Integrity (Fish) (FV)		9 different fish species collected Aquatic Life Use Score of 36		3.00
				CI 2.46



Transect 33    30.140328, -95.435702 to 30.139551, -95.435074				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<div><div><div>Percent</div><div>RB</div><div>9%</div><div>91%</div><div>LB</div><div>14%</div><div>86%</div></div><div><div>Score</div><div>1</div><div>2</div><div>1</div><div>2</div></div></div> <div>Features: maintained ROW, houses, backyards, gravel path, articulated blocks, geo fabric</div>	1.89		
Channel Alteration (AV)	100% Channelization, partial articulated block, 3 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 5.59			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	6 different fish species collected Aquatic Life Use Score of 34.			2.00
				CI 1.58
Transect 34    30.139114, -95.434691 to 30.138369, -95.433992				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<div><div><div>Percent</div><div>RB</div><div>8%</div><div>92%</div><div>LB</div><div>14%</div><div>86%</div></div><div><div>Score</div><div>1</div><div>2</div><div>1</div><div>2</div></div></div> <div>Features: maintained ROW, houses, gravel paths, houses, sidewalks, backyards</div>	1.89		
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 3.27			5.00
Regionalized Index of Biotic Integrity (Fish) (FV)	6 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.38

Transect 35    30.137937, -95.433598 to 30.137290, -95.432847				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 13% 87% <u>LB</u> 23% 77%	<u>Score</u>  1 2  1 2	Features: maintained ROW, gravel paths, road, sidewalk, houses, concrete lining, backyards	1.82
Channel Alteration (AV)	100% Channelization, partial concrete lining, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 3.59			5.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 2.16
Transect 36    30.137289, -95.432213 to 30.137355, -95.431126				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 8% 77% 15% <u>LB</u> 12% 70% 18%	<u>Score</u>  1 2 4.5  1 2 4.5	Features: maintained ROW, railroad bridge, concrete lining, concrete intake structures, house, forested areas	2.31
Channel Alteration (AV)	100% Channelization, 4 culverts, railroad bridge pile, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.67			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.06

Transect 37    30.137767, -95.430825 to 30.138598, -95.430437					
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars				1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 7% 72% 21% <u>LB</u> 3% 70% 27%	<u>Score</u>  1 2 4.5  1 2 4.5	Features: Maintained ROW, concrete lining, forested area		2.55
Channel Alteration (AV)	100% Channelization, partial concrete lining, culvert, no floodplain access				1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 4.93				3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	6 different fish species collected Aquatic Life Use Score of 34				2.00
					CI 1.91
Transect 38    30.138585, -95.429802 to 30.138585, -95.428693					
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars				1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 2% 98% <u>LB</u> 67% 33%	<u>Score</u>  1 2  2 4.5	Features: maintained ROW, lift station		2.40
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access				1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 4.48				4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 40				3.00
					CI 2.28

Transect 39    30.138590, -95.428062 to 30.138650, -95.426957				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 12% 61% 27% <u>LB</u> 15% 85%	<u>Score</u>  1 2 4.5  1 2	Features: maintained ROW, concrete lining, forested area, confluence of channels III-C & III-D	2.20
Channel Alteration (AV)	100% Channelization, partial concrete lining at confluence with III-C, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.47			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	11 different fish species collected Aquatic Life Use Score of 46			4.00
				CI 2.44
Transect 40    30.138832, -95.426357 to 30.138893, -95.425252				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 51% 49% <u>LB</u> 75% 25%	<u>Score</u>  2 4.5  2 4.5	Features: maintained ROW, forested area	2.93
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	11 different macroinvertebrates collected HBI of 4.03			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	9 different fish species collected Aquatic Life Use Score of 46			4.00
				CI 2.59

Transect 41 30.138893, -95.424628 to 30.138855, -95.423522				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 2% 68% 30% <u>LB</u> 89% 11%	<u>Score</u>  1 2 4.5  2 4.5	Features: maintained ROW, trees, house, pond	2.50
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 4.55			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	8 different fish species collected Aquatic Life Use Score of 42			4.00
				CI 2.30
Transect 42 30.138900, -95.422894 to 30.138849, -95.421808				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 1% 99% <u>LB</u> 100%	<u>Score</u>  1 2  2	Features: maintained ROW, terminus of South Ditch, backyards	2.00
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	7 different macroinvertebrates collected HBI of 3.82			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 40			3.00
				CI 2.20

Transect 43 30.138833, -95.421181 to 30.138862, -95.420092				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 17% 83% <u>LB</u> 16% 84%	<u>Score</u>  1 2  1 2	Features: maintained ROW, houses, bridge at Caraquet Drive, backyards	1.84
Channel Alteration (AV)	100% Channelization, 2 culverts, concrete lining under bridge, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 4.27			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 44			4.00
				CI 2.37
Transect 44 30.138816, -95.419465 to 30.138805, -95.418365				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 7% 93% <u>LB</u> 6% 94%	<u>Score</u>  1 2  1 2	Features: maintained ROW, concrete lining, houses, backyards, pools	1.94
Channel Alteration (AV)	100% Channelization, partial concrete lining, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 4.02			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	4 different fish species collected Aquatic Life Use Score of 30			2.00
				CI 1.99

Transect 45 30.138446, -95.417911 to 30.137911, -95.417063				
Channel Condition (CV)	Channelization, no floodplain access			1.00
Riparian Buffers (BV)	<div><div><div>Percent</div><div>RB</div><div>26%</div><div>74%</div><div>LB</div><div>21%</div><div>79%</div></div><div><div>Score</div><div>1</div><div>2</div><div>1</div><div>2</div></div></div> <div>Features: maintained ROW, pools, houses, maintained pipeline easement, concrete lining</div>	1.77		
Channel Alteration (AV)	100% Channelization, concrete lining, articulated block, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 5.31			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	4 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 1.55
Transect 46 30.137911, -95.416419 to 30.137871, -95.415313				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<div><div><div>Percent</div><div>RB</div><div>6%</div><div>94%</div><div>LB</div><div>5%</div><div>95%</div></div><div><div>Score</div><div>1</div><div>2</div><div>1</div><div>2</div></div></div> <div>Features: maintained ROW, houses, backyards, pool</div>	1.95		
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	6 different macroinvertebrates collected HBI of 4.59			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 34			2.00
				CI 1.79

Transect 47    30.137861, -95.414679 to 30.137867, -95.413578				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 4% 96% <u>LB</u> 4% 96%	<u>Score</u>  1 2  1 2	Features: maintained ROW, houses, bridge, backyards	1.96
Channel Alteration (AV)	100% Channelization, 3 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 5.06			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	9 different fish species collected Aquatic Life Use Score of 44			4.00
				CI 2.19
Transect 48    30.137852, -95.412949 to 30.137825, -95.411837				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 5% 95% <u>LB</u> 3% 97%	<u>Score</u>  1 2  1 2	Features: maintained ROW, swimming pools, houses, backyards	1.96
Channel Alteration (AV)	100% Channelization, 2 culverts with riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.52			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	9 different fish species collected Aquatic Life Use Score of 42			4.00
				CI 2.39



Transect 49 30.137805, -95.411199 to 30.137783, -95.410094				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 22% 78% <u>LB</u> 20% 73% 7%	<u>Score</u>  1 2  1 2 4.5	Features: maintained ROW, backyards, bridge of Imperial Oaks, riprap, forested area, power line easement	1.88
Channel Alteration (AV)	100% Channelization, 3 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.32			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	10 different fish species collected Aquatic Life Use Score of 42			4.00
				CI 2.38
Transect 50 30.137482, -95.409437 to 30.136732, -95.408758				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 2% 98% <u>LB</u> 18% 82%	<u>Score</u>  1 2  1 2	Features: maintained ROW, riprap, sidewalks, backyards	1.90
Channel Alteration (AV)	100% Channelization, riprap, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.81			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 1.78

Transect 51    30.136287, -95.408379 to 30.135503, -95.407719				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 6% 94% <u>LB</u> 100%	<u>Score</u>  1 2  2	Features: maintained ROW, houses, pool, backyards	1.97
Channel Alteration (AV)	100% Channelization, 1 culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 5.09			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 34			2.00
				CI 1.79
Transect 52    30.135058, -95.407337 to 30.134296, -95.406672				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 4% 96% <u>LB</u> 100%	<u>Score</u>  1 2  2	Features: maintained ROW, houses, backyards	1.98
Channel Alteration (AV)	100% Channelization, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.62			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.00

Transect 53    30.133877, -95.406275 to 30.133077, -95.405689				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 3% 97% <u>LB</u> 100%	<u>Score</u>  1 2  2	Features: maintained ROW, houses, backyards	1.99
Channel Alteration (AV)	100% Channelization, 2 culverts, articulated block, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.54			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 40			3.00
				CI 2.00
Transect 54    30.132536, -95.405650 to 30.131575, -95.405640				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 4% 96% <u>LB</u> 81% 19%	<u>Score</u>  1 2  2 4.5	Features: maintained ROW, backyards swimming pools, trees	2.22
Channel Alteration (AV)	100% Channelization, 4 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 5.51			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	8 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 1.84

Transect 55    30.131026, -95.405624 to 30.130066, -95.405623				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 4% 96% <u>LB</u> 85% 15%	<u>Score</u>  1 2  2 4.5	Features: maintained ROW, house, backyards, concrete drainage structures	2.17
Channel Alteration (AV)	100% Channelization, riprap, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	10 different macroinvertebrates collected HBI of 5.16			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	8 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.03
Transect 56    30.129519, -95.405623 to 30.128543, -95.405616				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 2% 98% <u>LB</u> 2% 89% 9%	<u>Score</u>  1 2  1 2 4.5	Features: maintained ROW, roads, backyards, trees	2.09
Channel Alteration (AV)	100% Channelization, 3 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.52			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	8 different fish species collected Aquatic Life Use Score of 46			4.00
				CI 2.42

Transect 57    30.128000, -95.405577 to 30.127030, -95.405602				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 5% 95% <u>LB</u> 80% 20%	<u>Score</u>  1 2  2 4.5	Features: maintained ROW, backyards, trees	2.23
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 4.29			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	8 different fish species collected Aquatic Life Use Score of 42			4.00
				CI 2.45
Transect 58    30.126476, -95.405596 to 30.125607, -95.405236				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 8% 90% 2% <u>LB</u> 90% 10%	<u>Score</u>  1 2 4.5  2 4.5	Features: maintained ROW, wastewater treatment plant, concrete lining, trees, backyards	2.11
Channel Alteration (AV)	100% Channelization, 3 culverts, partial concrete lining, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	10 different macroinvertebrates collected HBI of 5.46			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	8 different fish species collected Aquatic Life Use Score of 40			3.00
				CI 1.82

Transect 59    30.125391, -95.404643 to 30.125129, -95.403575					
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars				1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 1% 98% 1% <u>LB</u> 1% 77% 22%	<u>Score</u>  1 2 4.5  1 2 4.5	Features: maintained ROW, maintained yards, trees		2.28
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access				1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 4.85				3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 40				3.00
					CI 2.06
Transect 60    30.124727, -95.403235 to 30.123781, -95.403163					
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars				1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 100% <u>LB</u> 3% 95% 2%	<u>Score</u>  2  1 2 4.5	Features: maintained ROW, backyard, concrete lining, trees, dirt road		2.01
Channel Alteration (AV)	100% Channelization, partial concrete lining, articulated block, 2 culverts, no floodplain access				1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 5.79				2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	4 different fish species collected Aquatic Life Use Score of 36				3.00
					CI 1.80

Transect 61    30.123213, -95.403087 to 30.122249, -95.403099				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<div><div><div>Percent</div><div>RB</div><div>33%</div><div>59%</div><div>8%</div><div>LB</div><div>72%</div><div>28%</div></div><div><div>Score</div><div>1</div><div>2</div><div>4.5</div><div>1</div><div>2</div></div></div>	Features: maintained ROW, bridge, lift station, riprap	1.58	
Channel Alteration (AV)	100% Channelization, riprap, 6 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 5.35			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	9 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 1.72
Transect 62    30.121695, -95.403059 to 30.120740, -95.402924				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<div><div><div>Percent</div><div>RB</div><div>72%</div><div>28%</div><div>LB</div><div>100%</div></div><div><div>Score</div><div>2</div><div>4.5</div><div>2</div></div></div>	Features: Maintained ROW, trees, backyards	2.35	
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	6 different macroinvertebrates collected HBI of 4.62			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	6 different fish species collected Aquatic Life Use Score of 34			2.00
				CI 1.87

Transect 63    30.120191, -95.402925 to 30.119232, -95.402892				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 87% 13% <u>LB</u> 100%	<u>Score</u>  2 4.5  2	Features: Maintained ROW, forested area	2.16
Channel Alteration (AV)	100% Channelization, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	6 different macroinvertebrates collected HBI of 4.79			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 1.83
Transect 64    30.118676, -95.402865 to 30.117705, -95.402862				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 70% 30% <u>LB</u> 100%	<u>Score</u>  2 4.5  2	Features: Maintained ROW, forested areas	2.38
Channel Alteration (AV)	100% Channelization, 3 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 5.23			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 40			3.00
				CI 2.08



Transect 65    30.117153, -95.402846 to 30.116193, -95.402864				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 81% 19% <u>LB</u> 6% 84% 10%	<u>Score</u>  2 4.5  1 2 4.5	Features: maintained ROW, forested areas, riprap	2.33
Channel Alteration (AV)	100% Channelization, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	10 different macroinvertebrates collected HBI of 5.17			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.07
Transect 66    30.115652, -95.402984 to 30.114799, -95.403532				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 83% 17% <u>LB</u> 10% 90%	<u>Score</u>  2 4.5  1 2	Features: maintained ROW, park path, forested area	2.16
Channel Alteration (AV)	100% Channelization, riprap, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	7 different macroinvertebrates collected HBI of 5.19			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 42			4.00
				CI 2.23

Transect 67 30.114325, -95.403854 to 30.113566, -95.404541				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 100% <u>LB</u> 62% 38%	<u>Score</u>  2  2 4.5	Features: maintained ROW, park, backyards	2.48
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.77			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	6 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.10
Transect 68 30.113153, -95.404957 to 30.112375, -95.405543				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 5% 95% <u>LB</u> 100%	<u>Score</u>  1 2  2	Features: maintained ROW, maintained park, houses, backyards	1.98
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	10 different macroinvertebrates collected HBI of 4.71			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 2.00

Transect 69    30.111834, -95.405461 to 30.110872, -95.405382				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 4% 96% <u>LB</u> 100%	<u>Score</u>  1 2  2	Features: maintained ROW, houses, backyards, pipeline easement	1.98
Channel Alteration (AV)	100% Channelization, riprap, 3 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.28			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	4 different fish species collected Aquatic Life Use Score of 34			2.00
				CI 2.00
Transect 70    30.110329, -95.405339 to 30.109363, -95.405398				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 1% 99% <u>LB</u> 93% 7%	<u>Score</u>  1 2  2 4.5	Features: maintained ROW, forested area, wastewater treatment plant, houses, backyards	2.08
Channel Alteration (AV)	100% Channelization, riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	7 different macroinvertebrates collected HBI of 6.07			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.82

Transect 71    30.108812, -95.405426 to 30.107844, -95.405482				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 1% 99% <u>LB</u> 62% 38%	<u>Score</u>  1 2  2 4.5	Features: maintained ROW, forested area, backyards, houses	2.47
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 5.64			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	2 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 1.69
Transect 72    30.107294, -95.405519 to 30.106334, -95.405589				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 2% 98% <u>LB</u> 64% 36%	<u>Score</u>  1 2  2 4.5	Features: maintained ROW, backyards, houses, forested area	2.44
Channel Alteration (AV)	100% Channelization, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	4 different macroinvertebrates collected HBI of 6.29			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	3 different fish species collected Aquatic Life Use Score of 34			2.00
				CI 1.69

Transect 73    30.105781, -95.405610 to 30.104816, -95.405670				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 100% <u>LB</u> 66% 34%	<u>Score</u>  2  2 4.5	Features: maintained ROW, forested area, maintained adjacent property, concrete intake structure, riprap	2.43
Channel Alteration (AV)	100% Channelization, culvert, riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 5.53			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	4 different fish species collected Aquatic Life Use Score of 34			2.00
				CI 1.69
Transect 74    30.104278, -95.405692 to 30.103314, -95.405751				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 100% <u>LB</u> 66% 34%	<u>Score</u>  2  2 4.5	Features: Maintained ROW, forested area, riprap	2.43
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 5.57			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	6 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 1.89

Transect 75    30.102764, -95.405747 to 30.101794, -95.405800				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 1% 58% 41% <u>LB</u> 63% 37%	<u>Score</u>  1 2 4.5  2 4.5	Features: maintained ROW, forested area, riprap	2.97
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	12 different macroinvertebrates collected HBI of 5.82			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	2 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 1.79
Transect 76    30.101447, -95.405800 to 30.100505, -95.406000				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 84% 16% <u>LB</u> 1% 73% 26%	<u>Score</u>  2 4.5  1 2 4.5	Features: maintained ROW, forested area, riprap	2.52
Channel Alteration (AV)	100% Channelization, riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 6.06			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	4 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 1.70

Transect 77    30.100166, -95.406117 to 30.099274, -95.406503				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<div><div><div>Percent</div><div>RB</div><div>75%</div><div>25%</div><div>LB</div><div>73%</div><div>27%</div></div><div><div>Score</div><div>2</div><div>4.5</div><div>2</div><div>4.5</div></div></div>	Features: maintained ROW, forested area, maintained adjacent property	2.65	
Channel Alteration (AV)	100% Channelization, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	10 different macroinvertebrates collected HBI of 3.98			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	2 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 2.13
Transect 78    30.098947, -95.406629 to 30.098050, -95.407035				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<div><div><div>Percent</div><div>RB</div><div>75%</div><div>25%</div><div>LB</div><div>83%</div><div>17%</div></div><div><div>Score</div><div>2</div><div>4.5</div><div>2</div><div>4.5</div></div></div>	Features: maintained ROW, forested area, maintained adjacent property	2.53	
Channel Alteration (AV)	100% Channelization, culvert, riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 6.02			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	3 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 1.71

Transect 79 30.097721, -95.407207 to 30.097682, -95.408282				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 98% 2% <u>LB</u> 21% 63% 16%	<u>Score</u>  2 4.5  1 2 4.5	Features: maintained ROW, concrete lining, riprap, forested area	2.12
Channel Alteration (AV)	100% Channelization, partial concrete lining, riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 6.04			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	4 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.82
Transect 80 30.097838, -95.408637 to 30.098241, -95.409643				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 90% 10% <u>LB</u> 1% 62% 37%	<u>Score</u>  2 4.5  1 2 4.5	Features: maintained ROW, intake structure, riprap, forested area	2.58
Channel Alteration (AV)	100% Channelization, riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 6.21			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 34			2.00
				CI 1.72
RCI				2.00

## 2 EVALUATING, AVOIDANCE, MINIMIZATION, STREAM RESTORATION PROJECTS AND COMPENSATORY MITIGATION PLANS

Impacts to the channel through soil displacement from banks to bottoms will be minimized by covering the riprap with topsoil and establishing grass over top. Flow through exposed



riprap causes increased water velocities in narrow channels through Bernoulli flow dynamics that can result in turbulence and associated vortices, increasing the potential for riprap displacement and undercutting at the riprap/bank soil interface. Establishment of grass maximizes sheet flow, which spreads the energy of water movement across the channel banks and reduces water velocities that can cause incision into the banks, i.e., erosion. The placement of a soil-grass layer over the rip rap will mitigate these erosional concerns.

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### **3 PROCEDURE FOR IMPACT ASSESSMENT (DEBITS)**

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Permitted impacts result in a variety of impairments to a stream's ability to transport water, transport sediment, support and maintain a community of organisms and provide a safe water supply. Different types of impacts are assessed based on the extent to which they are expected to impair the stream. A SCA was completed to determine the current stream function. A theoretical SCA was conducted based on the proposed project plans.

The findings are included in Appendix G - Theoretical Level 2 Stream Condition Assessment Data Forms and are summarized below in Table 2. The following includes a description of each of the proposed repairs:

#### **Transect 45**

- IID Site 8 Coordinates: 30.138010, -95.416937  
Repair/Replacement of 1,200 Square Feet of Existing Articulated Concrete Block and Placement of 36 Cubic Yards of Riprap at Toe of Slope for Protection and Covering with Topsoil.

#### **Transect 48**

- IID Site 7 Coordinates: 30.137894, -95.411611 TO 30.137865, -95.412553  
Benching and Reshaping Existing Slopes to Original Condition including placing 155 Cubic Yards to Material Compacted to 95% Standard Proctor Density and Placement of 112 Cubic Yards of Riprap at Toe of Slope for Protection and Covering with Topsoil.

#### **Transect 53**

- IID Site 5 Coordinates: 30.133165, -95.405807  
Benching and Reshaping Existing Slopes to Original Condition including placing 247 Cubic Yards to Material Compacted to 95% Standard Proctor Density and Placement 43 Cubic Yards of Riprap at Bottom for Protection and Covering with Topsoil.

#### **Transect 54**

- IID Site 4 Coordinates: 30.132597, -95.40582  
Benching and Reshaping Existing Slopes to Original Condition including placing 113 Cubic Yards to Material Compacted to 95% Standard Proctor Density.

**Transect 57**

- IIID Site 3 Coordinates: 30.127541, -95.405642  
Benching and Reshaping Existing Slopes to Original Condition including placing 147 Cubic Yards to Material Compacted to 95% Standard Proctor Density and Placement 93 Cubic Yards of Riprap at Bottom for Protection and Covering with Topsoil.

**Transect 60**

- IIID Site 2 Coordinates: 30.123964, -95.403209  
Repair/Replacement of 336 Square Feet of Existing Articulated Concrete Block, Covering with Topsoil, and Benching and Reshaping Existing Slopes to Original Condition including placing 156 Cubic Yards to Material Compacted to 95% Standard Proctor Density.

**Transect 61**

- IIID Site 1 Coordinates: 30.123291, -95.403139  
Replacement of 48-linear feet of 3'x3' Gabion Baskets, Replacement of 576 Square Feet of 12" Thick Gabion Mattress Slope Protection, Covering with Topsoil and Benching and Reshaping Existing Slopes to Original Condition including placing 36 Cubic Yards to Material Compacted to 95% Standard Proctor Density.

**Transect 62**

- IIIF Site 10 Coordinates: 30.121345, -95.403126  
Benching and Reshaping Existing Slopes to Original Condition including placing 16 Cubic Yards to Material Compacted to 95% Standard Proctor Density and Placement of 27 Cubic Yards of Riprap at Toe of Slope for Protection and Placement 82 Cubic Yards of Riprap at Bottom for Protection and Covering with Topsoil.
- IIIF Site 11 Coordinates: 30.121684, -95.403126  
Benching and Reshaping Existing Slopes to Original Condition including placing 12 Cubic Yards to Material Compacted to 95% Standard Proctor Density and Placement 58 Cubic Yards of Riprap at Bottom for Protection and Covering with Topsoil.

**Transect 65**

- IIIF Site 9 Coordinates: 30.116219, -95.402978 TO 30.116508, -95.402934  
Benching and Reshaping Existing Slopes to Original Condition including placing 59 Cubic Yards to Material Compacted to 95% Standard Proctor Density and Placement of 185 Cubic Yards of Riprap at Toe of Slope for Protection and Placement 61 Cubic Yards of Riprap at Bottom for Protection and Covering with Topsoil.

**Transect 66**

- IIIF Site 6 Coordinates: 30.114998, -95.40351  
Benching and Reshaping Existing Slopes to Original Condition including placing 126 Cubic Yards to Material Compacted to 95% Standard Proctor Density and Placement of 31 Cubic Yards of Riprap at Toe of Slope for Protection and Covering with Topsoil.

- IIIF Site 7 Coordinates: 30.115174, -95.403498  
Benching and Reshaping Existing Slopes to Original Condition including placing 101 Cubic Yards to Material Compacted to 95% Standard Proctor Density and Placement of 62 Cubic Yards of Riprap at Toe of Slope for Protection and Placement 61 Cubic Yards of Riprap at Bottom for Protection and Covering with Topsoil.
- IIIF Site 8 Coordinates: 30.115339, -95.403212  
Benching and Reshaping Existing Slopes to Original Condition including placing 205 Cubic Yards to Material Compacted to 95% Standard Proctor Density and Placement of 22 Cubic Yards of Riprap at Toe of Slope for Protection and Covering with Topsoil.

#### Transect 68

- IIIF Site 5A Coordinates: 30.11314, -95.405597  
Benching and Reshaping Existing Slopes to Original Condition including placing 114 Cubic Yards to Material Compacted to 95% Standard Proctor Density and Placement of 43 Cubic Yards of Riprap at Toe of Slope for Protection and Covering with Topsoil.
- IIIF Site 5B Coordinates: 30.11314, -95.405597 TO 30.113512, -95.404897  
Benching and Reshaping Existing Slopes to Original Condition including placing 152 Cubic Yards to Material Compacted to 95% Standard Proctor Density and Placement of 71 Cubic Yards of Riprap at Toe of Slope for Protection and Covering with Topsoil.

#### Transect 69

- IIIF Site 4 Coordinates: 30.111263, -95.405576 TO 30.111961, -95.405688  
Benching and Reshaping Existing Slopes to Original Condition including placing 693 Cubic Yards to Material Compacted to 95% Standard Proctor Density and Placement of 77 Cubic Yards of Riprap at Toe of Slope for Protection and Covering with Topsoil.

#### Transect 70

- IIIF Site 12 East Coordinates: 30.110675, -95.405553  
Benching and Reshaping Existing Slopes to Original Condition including placing 50 Cubic Yards to Material Compacted to 95% Standard Proctor Density and Placement of 30 Cubic Yards of Riprap at Toe of Slope for Protection and Covering with Topsoil.
- IIIF Site 12 West Coordinates: 30.110675, -95.405553  
Benching and Reshaping Existing Slopes to Original Condition including placing 76 Cubic Yards to Material Compacted to 95% Standard Proctor Density and Placement of 30 Cubic Yards of Riprap at Toe of Slope for Protection and Covering with Topsoil.

#### Transect 76

- IIIF Site 3 Coordinates: 30.101002, -95.405553  
Benching and Reshaping Existing Slopes to Original Condition including placing 111 Cubic Yards to Material Compacted to 95% Standard Proctor Density, Placement of 71 Cubic Yards of Riprap at Toe of Slope for Protection and Covering with Topsoil and Placement 119 Cubic Yards of Riprap at Bottom for Protection and Covering with Topsoil.

**Transect 79**

- IIIF Site 2 Coordinates: 30.097904, -95.408301 TO 30.097672, -95.407832  
Benching and Reshaping Existing Slopes to Original Condition including placing 993 Cubic Yards to Material Compacted to 95% Standard Proctor Density, Placement of 133 Cubic Yards of Riprap at Toe of Slope for Protection and Covering with Topsoil and Placement 467 Cubic Yards of Riprap at Bottom for Protection and Covering with Topsoil.

**Transect 80**

- IIIF Site 1 Coordinates: 30.097868, -95.408834  
Benching and Reshaping Existing Slopes to Original Condition including placing 460 Cubic Yards to Material Compacted to 95% Standard Proctor Density, Placement of 82 Cubic Yards of Riprap at Toe of Slope for Protection and Covering with Topsoil and Placement 307 Cubic Yards of Riprap at Bottom for Protection and Covering with Topsoil.

Table 2 - Theoretical Level 2 Stream Condition Assessment Data Form Summary

Transect 1 30.169442, -95.449849 to 30.169560, -95.448754					
Channel Condition (CV)	Channelization, no floodplain access				1.00
Riparian Buffers (BV)	<u>Percent</u>	<u>Score</u>	Features: concrete lined channel, trees, school driveway, houses, yards, channel partially sub-grade in culverts		2.10
	<u>RB</u>				
	18%	1			
	42%	2			
	40%	4.5			
	<u>LB</u>				
	63%	1			
	37%	2			
Channel Alteration (AV)	100% Channelization, 50% concrete lining, 50% sub-grade culvert, no access to floodplain				1.00
In-Stream Macroinvertebrate Observation (MV)	2 different macroinvertebrates collected HBI of 8.00				2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 36				3.00
					CI 1.82

Transect 2    30.169564, -95.448152 to 30.169647, -95.447133				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 45% 55% <u>LB</u> 16% 84%	<u>Score</u>  1 2  1 2	Features: Maintained ROW, school parking lot, school track, houses, pools, channel partially sub-grade	1.70
Channel Alteration (AV)	100% Channelization, 25% sub-grade culvert, partial concrete lining/riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 6.42			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.74
Transect 3    30.169653, -95.446529 to 30.169685, -95.445421				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 14% 86% <u>LB</u> 3% 97%	<u>Score</u>  1 2  1 2	Features: maintained ROW, soccer field, Oak Ridge School Rd. ditch, concrete lining at confluence	1.92
Channel Alteration (AV)	100% Channelization, partial concrete lining, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 6.72			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.78

Transect 4    30.169694, -95.444816 to 30.169691, -95.443703				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<div><div><div>Percent</div><div>RB</div><div>9%</div><div>91%</div><div>LB</div><div>19%</div><div>81%</div></div><div><div>Score</div><div>1</div><div>2</div><div>1</div><div>2</div></div></div>	Features: maintained ROW, road, houses, pedestrian bridge, culverts	1.86	
Channel Alteration (AV)	100% Channelization, 3 culverts, footings for pipeline crossing, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 5.51			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.77
Transect 5    30.169693, -95.443096 to 30.169695, -95.441990				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<div><div><div>Percent</div><div>RB</div><div>48%</div><div>52%</div><div>LB</div><div>9%</div><div>91%</div></div><div><div>Score</div><div>1</div><div>2</div><div>1</div><div>2</div></div></div>	Features: maintained ROW, road, houses, pools, yards	1.72	
Channel Alteration (AV)	100% Channelization, 3 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	7 different macroinvertebrates collected HBI of 5.72			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.74

Transect 6    30.169676, -95.441359 to 30.168801, -95.441150				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 30% 70% <u>LB</u> 38% 62%	<u>Score</u>  1 2  1 2	Features: maintained ROW, houses, pools, yards, parking lot, soccer field, concrete lining, riprap	1.66
Channel Alteration (AV)	100% Channelization, concrete lining, riprap, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 5.77			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 1.53
Transect 7    30.168251, -95.441151, to 30.167285, -95.441146				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 28% 72% <u>LB</u> 1% 99%	<u>Score</u>  1 2  1 2	Features: maintained ROW, houses, yards, soccer field, playground/school yard	1.86
Channel Alteration (AV)	100% Channelization, 2 culverts, no access to floodplain			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 5.77			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 1.57

Transect 8    30.166732, -95.441147 to 30.165837, -95.440917				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 21% 79% <u>LB</u> 15% 85%	<u>Score</u>  1 2  1 2	Features: maintained ROW, school, houses, yards, concrete lining, drop structure	1.82
Channel Alteration (AV)	100% Channelization, partial concrete lining, riprap, 2 culverts, concrete drop structure, pipeline crossing footings, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 4.89			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.96
Transect 9    30.165832, -95.440290 to 30.165476, -95.439612				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 24% 76% <u>LB</u> 17% 83%	<u>Score</u>  1 2  1 2	Features: maintained ROW, parking lots, concrete lining, road, bridge, sidewalks	1.80
Channel Alteration (AV)	100% Channelization, partial concrete lining, riprap, box culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 5.70			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.76



Transect 10    30.164941, -95.439496 to 30.164081, -95.439003						
Channel Condition (CV)		Channelization, no floodplain access, incision, erosional scars			1.00	
Riparian Buffers (BV)		<u>Percent</u> <u>RB</u> 30% 70% <u>LB</u> 45% 55%	<u>Score</u>  1 2  1 2	Features: maintained ROW, structures, parking lots, backyards	1.63	
Channel Alteration (AV)		100% Channelization, 2 culverts, no floodplain access			1.00	
In-Stream Macroinvertebrate Observation (MV)		12 different macroinvertebrates collected HBI of 5.09			3.00	
Regionalized Index of Biotic Integrity (Fish) (FV)		1 different fish species collected Aquatic Life Use Score of 36			3.00	
					CI 1.93	
Transect 11    30.163627, -95.438674 to 30.163579, -95.437584						
Channel Condition (CV)		Channelization, no floodplain access			1.00	
Riparian Buffers (BV)		<u>Percent</u> <u>RB</u> 42% 43% 15% <u>LB</u> 47% 39% 14%	<u>Score</u>  1 2 4.5  1 2 4.5	Features: maintained ROW, gas station, mechanic shop, railroad crossing, Hanna Road, forested area	1.92	
Channel Alteration (AV)		100% Channelization, partial concrete lining, box culverts under Hanna Road, no floodplain access			1.00	
In-Stream Macroinvertebrate Observation (MV)		8 different macroinvertebrates collected HBI of 6.32			2.00	
Regionalized Index of Biotic Integrity (Fish) (FV)		1 different fish species collected Aquatic Life Use Score of 34.			2.00	
					CI 1.58	

Transect 12    30.163089, -95.437404 to 30.162160, -95.437126				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 8% 70% 22% <u>LB</u> 7% 93%	<u>Score</u>  1 2 4.5  1 2	Features: maintained ROW, park/baseball field, parking lot, forested railroad ROW	2.20
Channel Alteration (AV)	100% Channelization, partial concrete lining, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	7 different macroinvertebrates collected HBI of 5.51			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.84
Transect 13    30.161973, -95.436572 to 30.162001, -95.435460				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 3% 80% 17% <u>LB</u> 3% 75% 22%	<u>Score</u>  1 2 4.5  1 2 4.5	Features: maintained ROW, concrete drop structure, concrete intake structure, forested area, park	2.46
Channel Alteration (AV)	100% Channelization, concrete drop structure, riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	10 different macroinvertebrates collected HBI of 4.79			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.09

Transect 14    30.162003, -95.434856 to 30.162024, -95.433745				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 8% 67% 25% <u>LB</u> 74% 26%	<u>Score</u>  1 2 4.5  2 4.5	Features: maintained ROW, forested area, lay-down behind business	2.60
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	6 different macroinvertebrates collected HBI of 4.52			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	9 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.32
Transect 15    30.162038, -95.433139 to 30.162055, -95.432027				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 7% 60% 33% <u>LB</u> 84% 16%	<u>Score</u>  1 2 4.5  2 4.5	Features: maintained ROW, grazing, commercial storage containers, forested areas	2.58
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	7 different macroinvertebrates collected HBI of 5.50			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	6 different fish species collected Aquatic Life Use Score of 34.			2.00
				CI 1.72

Transect 16    30.161908, -95.431431 to 30.161020, -95.431034					
Channel Condition (CV)		Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u>	<u>Score</u>	Features: building, parking lot, maintained ROW, concrete lining, forested areas	2.97	
	<u>RB</u>				
	12%	1			
	49%	2			
	39%	4.5			
	<u>LB</u>				
	7%	1			
47%	2				
46%	4.5				
Channel Alteration (AV)		100% Channelization, partial concrete lining, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)		6 different macroinvertebrates collected HBI of 5.07			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)		12 different fish species collected Aquatic Life Use Score of 38			3.00
					CI 2.19
Transect 17    30.160510, -95.430910 to 30.159546, -95.430815					
Channel Condition (CV)		Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u>	<u>Score</u>	Features: maintained ROW, parking lot/lay-down yard, concrete intake structure, forested area	2.65	
	<u>RB</u>				
	10%	1			
	56%	2			
	34%	4.5			
	<u>LB</u>				
	78%	2			
22%	4.5				
Channel Alteration (AV)		100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)		6 different macroinvertebrates collected HBI of 4.63			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)		7 different fish species collected Aquatic Life Use Score of 34.			2.00
					CI 1.93

Transect 18    30.159023, -95.430792 to 30.158073, -95.430753				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 20% 80% <u>LB</u> 55% 45%	<u>Score</u>  1 2  2 4.5	Features: maintained ROW, building, parking lot, forested area, concrete intake structures	2.46
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 4.12			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	11 different fish species collected Aquatic Life Use Score of 40			3.00
				CI 2.29
Transect 19    30.157549, -95.430749 to 30.156586, -95.430716				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 22% 78% <u>LB</u> 2% 53% 45%	<u>Score</u>  1 2  1 2 4.5	Features: maintained ROW, building, parking lot, riprap, drainage ditch, forested area	2.44
Channel Alteration (AV)	100% Channelization, riprap at confluence with ditch, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	6 different macroinvertebrates collected HBI of 4.78			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	10 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 2.09

Transect 20    30.156060, -95.430701 to 30.155108, -95.430585				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 14% 86% <u>LB</u> 5% 70% 25%	<u>Score</u>  1 2  1 2 4.5	Features: maintained ROW, residential yards, fire station, trees, dirt driveway	2.22
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.53			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	8 different fish species collected Aquatic Life Use Score of 42			4.00
				CI 2.24
Transect 21    30.154696, -95.430208 to 30.153816, -95.429904				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 4% 62% 34% <u>LB</u> 4% 72% 24%	<u>Score</u>  1 2 4.5  1 2 4.5	Features: maintained ROW, forested area, structures	2.69
Channel Alteration (AV)	100% Channelization, 2 culverts, riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	6 different macroinvertebrates collected HBI of 3.91			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	8 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 2.34

Transect 22    30.153619, -95.429358 to 30.153535, -95.428249				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 56% 44% <u>LB</u> 1% 57% 42%	<u>Score</u>  2 4.5  1 2 4.5	Features: maintained ROW, forested areas, concrete lining	3.07
Channel Alteration (AV)	100% Channelization, partial concrete lining, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	6 different macroinvertebrates collected HBI of 472			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	6 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 2.21
Transect 23    30.153202, -95.427771 to 30.152241, -95.427729				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 77% 23% <u>LB</u> 39% 61%	<u>Score</u>  2 4.5  1 2	Features: maintained ROW, trees, horse stables/pasture	2.09
Channel Alteration (AV)	100% Channelization, 3 culverts, riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	7 different macroinvertebrates collected HBI of 4.89			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	8 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 2.02

Transect 24 30.151713, -95.427733 to 30.150742, -95.427748				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 8% 92% <u>LB</u> 9% 74% 17%	<u>Score</u>  1 2  1 2 4.5	Features: maintained ROW, mobile home park, wastewater treatment plant, metal buildings	2.13
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 5.59			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 30			2.00
				CI 1.63
Transect 25 30.150215, -95.427757 to 30.149251, -95.427759				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 75% 25% <u>LB</u> 90% 10%	<u>Score</u>  2 4.5  2 4.5	Features: maintained ROW, trees, pasture	2.44
Channel Alteration (AV)	100% Channelization, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	7 different macroinvertebrates collected HBI of 4.26			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 30			2.00
				CI 2.09



Transect 26    30.148725, -95.427748 to 30.147757, -95.427713				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 76% 24% <u>LB</u> 100%	<u>Score</u>  2 4.5  2	Features: maintained ROW, forested areas, pasture	2.30
Channel Alteration (AV)	100% Channelization, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.39			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	9 different fish species collected Aquatic Life Use Score of 40			3.00
				CI 2.26
Transect 27    30.147230, -95.427692 to 30.146267, -95.427653				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 87% 13% <u>LB</u> 1% 99%	<u>Score</u>  2 4.5  1 2	Features: maintained ROW, forested areas, backyard, riprap, concrete intake structure	2.16
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 4.79			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	9 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.03

Transect 28    30.145740, -95.427637 to 30.144776, -95.427617				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 79% 21% <u>LB</u> 39% 61%	<u>Score</u>  2 4.5  2 4.5	Features: maintained ROW, forested areas	3.03
Channel Alteration (AV)	100% Channelization, riprap at ditch confluence, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.64			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	9 different fish species collected Aquatic Life Use Score of 40			3.00
				CI 2.21
Transect 29    30.144258, -95.427596 to 30.143286, -95.427565				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 74% 26% <u>LB</u> 35% 65%	<u>Score</u>  2 4.5  2 4.5	Features: maintained ROW, forested areas	3.14
Channel Alteration (AV)	100% Channelization, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	7 different macroinvertebrates collected HBI of 4.42			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	11 different fish species collected Aquatic Life Use Score of 44			4.00
				CI 2.63

Transect 30    30.142772, -95.427549 to 30.141813, -95.427525				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 93% 7% <u>LB</u> 79% 21%	<u>Score</u>  2 4.5  2 4.5	Features: maintained ROW, forested areas	2.35
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.57			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 28			2.00
				CI 1.87
Transect 31    30.141294, -95.427508 to 30.140325, -95.427479				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 86% 14% <u>LB</u> 100%	<u>Score</u>  2 4.5  2	Features: maintained ROW, forested area	2.18
Channel Alteration (AV)	100% Channelization, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	7 different macroinvertebrates collected HBI of 3.35			5.00
Regionalized Index of Biotic Integrity (Fish) (FV)	6 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.44

Transect 32 30.139907, -95.427460 to 30.138954, -95.427418				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<div><div><div>Percent</div><div>RB</div><div>79%</div><div>21%</div><div>LB</div><div>18%</div><div>82%</div></div><div><div>Score</div><div>2</div><div>4.5</div><div>2</div><div>4.5</div></div></div>	Features: maintained ROW, forested area	3.29	
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 3.89			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	9 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 2.46
Transect 33 30.140328, -95.435702 to 30.139551, -95.435074				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<div><div><div>Percent</div><div>RB</div><div>9%</div><div>91%</div><div>LB</div><div>14%</div><div>86%</div></div><div><div>Score</div><div>1</div><div>2</div><div>1</div><div>2</div></div></div>	Features: maintained ROW, houses, backyards, gravel path, articulated blocks, geo fabric	1.89	
Channel Alteration (AV)	100% Channelization, partial articulated block, 3 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 5.59			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	6 different fish species collected Aquatic Life Use Score of 34.			2.00
				CI 1.58

Transect 34 30.139114, -95.434691 to 30.138369, -95.433992				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 8% 92% <u>LB</u> 14% 86%	<u>Score</u>  1 2  1 2	Features: maintained ROW, houses, gravel paths, houses, sidewalks, backyards	1.89
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 3.27			5.00
Regionalized Index of Biotic Integrity (Fish) (FV)	6 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.38
Transect 35 30.137937, -95.433598 to 30.137290, -95.432847				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 13% 87% <u>LB</u> 23% 77%	<u>Score</u>  1 2  1 2	Features: maintained ROW, gravel paths, road, sidewalk, houses, concrete lining, backyards	1.82
Channel Alteration (AV)	100% Channelization, partial concrete lining, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 3.59			5.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 2.16

Transect 36 30.137289, -95.432213 to 30.137355, -95.431126				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 8% 77% 15% <u>LB</u> 12% 70% 18%	<u>Score</u>  1 2 4.5  1 2 4.5	Features: maintained ROW, railroad bridge, concrete lining, concrete intake structures, house, forested areas	2.31
Channel Alteration (AV)	100% Channelization, 4 culverts, railroad bridge pile, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.67			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.06
Transect 37 30.137767, -95.430825 to 30.138598, -95.430437				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 7% 72% 21% <u>LB</u> 3% 70% 27%	<u>Score</u>  1 2 4.5  1 2 4.5	Features: Maintained ROW, concrete lining, forested area	2.55
Channel Alteration (AV)	100% Channelization, partial concrete lining, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 4.93			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	6 different fish species collected Aquatic Life Use Score of 34			2.00
				CI 1.91

Transect 38    30.138585, -95.429802 to 30.138585, -95.428693				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 2% 98% <u>LB</u> 67% 33%	<u>Score</u>  1 2  2 4.5	Features: maintained ROW, lift station	2.40
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 4.48			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 40			3.00
				CI 2.28
Transect 39    30.138590, -95.428062 to 30.138650, -95.426957				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 12% 61% 27% <u>LB</u> 15% 85%	<u>Score</u>  1 2 4.5  1 2	Features: maintained ROW, concrete lining, forested area, confluence of channels III-C & III-D	2.20
Channel Alteration (AV)	100% Channelization, partial concrete lining at confluence with III-C, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.47			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	11 different fish species collected Aquatic Life Use Score of 46			4.00
				CI 2.44

Transect 40    30.138832, -95.426357 to 30.138893, -95.425252				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 51% 49% <u>LB</u> 75% 25%	<u>Score</u>  2 4.5  2 4.5	Features: maintained ROW, forested area	2.93
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	11 different macroinvertebrates collected HBI of 4.03			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	9 different fish species collected Aquatic Life Use Score of 46			4.00
				CI 2.59
Transect 41    30.138893, -95.424628 to 30.138855, -95.423522				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 2% 68% 30% <u>LB</u> 89% 11%	<u>Score</u>  1 2 4.5  2 4.5	Features: maintained ROW, trees, house, pond	2.50
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 4.55			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	8 different fish species collected Aquatic Life Use Score of 42			4.00
				CI 2.30



Transect 42 30.138900, -95.422894 to 30.138849, -95.421808				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 1% 99% <u>LB</u> 100%	<u>Score</u>  1 2  2	Features: maintained ROW, terminus of South Ditch, backyards	2.00
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	7 different macroinvertebrates collected HBI of 3.82			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 40			3.00
				CI 2.20
Transect 43 30.138833, -95.421181 to 30.138862, -95.420092				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 17% 83% <u>LB</u> 16% 84%	<u>Score</u>  1 2  1 2	Features: maintained ROW, houses, bridge at Caraque Drive, backyards	1.84
Channel Alteration (AV)	100% Channelization, 2 culverts, concrete lining under bridge, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 4.27			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 44			4.00
				CI 2.37

Transect 44 30.138816, -95.419465 to 30.138805, -95.418365				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 7% 93% <u>LB</u> 6% 94%	<u>Score</u>  1 2  1 2	Features: maintained ROW, concrete lining, houses, backyards, pools	1.94
Channel Alteration (AV)	100% Channelization, partial concrete lining, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 4.02			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	4 different fish species collected Aquatic Life Use Score of 30			2.00
				CI 1.99
Transect 45 30.138446, -95.417911 to 30.137911, -95.417063				
Channel Condition (CV)	Channelization, no floodplain access			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 26% 74% <u>LB</u> 21% 79%	<u>Score</u>  1 2  1 2	Features: maintained ROW, pools, houses, maintained pipeline easement, concrete lining	1.77
Channel Alteration (AV)	100% Channelization, concrete lining, articulated block, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 5.31			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	4 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 1.55

Transect 46    30.137911, -95.416419 to 30.137871, -95.415313				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 6% 94% <u>LB</u> 5% 95%	<u>Score</u>  1 2  1 2	Features: maintained ROW, houses, backyards, pool	1.95
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	6 different macroinvertebrates collected HBI of 4.59			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 34			2.00
				CI 1.79
Transect 47    30.137861, -95.414679 to 30.137867, -95.413578				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 4% 96% <u>LB</u> 4% 96%	<u>Score</u>  1 2  1 2	Features: maintained ROW, houses, bridge, backyards	1.96
Channel Alteration (AV)	100% Channelization, 3 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 5.06			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	9 different fish species collected Aquatic Life Use Score of 44			4.00
				CI 2.19

Transect 48 30.137852, -95.412949 to 30.137825, -95.411837				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 5% 95% <u>LB</u> 3% 97%	<u>Score</u>  1 2  1 2	Features: maintained ROW, swimming pools, houses, backyards	1.96
Channel Alteration (AV)	100% Channelization, 2 culverts with riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.52			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	9 different fish species collected Aquatic Life Use Score of 42			4.00
				CI 2.39
Transect 49 30.137805, -95.411199 to 30.137783, -95.410094				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 22% 78% <u>LB</u> 20% 73% 7%	<u>Score</u>  1 2  1 2 4.5	Features: maintained ROW, backyards, bridge of Imperial Oaks, riprap, forested area, power line easement	1.88
Channel Alteration (AV)	100% Channelization, 3 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.32			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	10 different fish species collected Aquatic Life Use Score of 42			4.00
				CI 2.38

Transect 50    30.137482, -95.409437 to 30.136732, -95.408758				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 2% 98% <u>LB</u> 18% 82%	<u>Score</u>  1 2  1 2	Features: maintained ROW, riprap, sidewalks, backyards	1.90
Channel Alteration (AV)	100% Channelization, riprap, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.81			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 1.78
Transect 51    30.136287, -95.408379 to 30.135503, -95.407719				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 6% 94% <u>LB</u> 100%	<u>Score</u>  1 2  2	Features: maintained ROW, houses, pool, backyards	1.97
Channel Alteration (AV)	100% Channelization, 1 culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 5.09			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 34			2.00
				CI 1.79

Transect 52    30.135058, -95.407337 to 30.134296, -95.406672				
Channel Condition (CV)		Channelization, no floodplain access, incision, erosional scars		1.00
Riparian Buffers (BV)		<u>Percent</u> <u>RB</u> 4% 96% <u>LB</u> 100%	<u>Score</u>  1 2  2	Features: maintained ROW, houses, backyards
Channel Alteration (AV)		100% Channelization, no floodplain access		1.00
In-Stream Macroinvertebrate Observation (MV)		8 different macroinvertebrates collected HBI of 4.62		3.00
Regionalized Index of Biotic Integrity (Fish) (FV)		5 different fish species collected Aquatic Life Use Score of 38		3.00
				CI 2.00
Transect 53    30.133877, -95.406275 to 30.133077, -95.405689				
Channel Condition (CV)		Channelization, no floodplain access, incision, erosional scars		1.00
Riparian Buffers (BV)		<u>Percent</u> <u>RB</u> 3% 97% <u>LB</u> 100%	<u>Score</u>  1 2  2	Features: maintained ROW, houses, backyards
Channel Alteration (AV)		100% Channelization, 2 culverts, articulated block, no floodplain access		1.00
In-Stream Macroinvertebrate Observation (MV)		8 different macroinvertebrates collected HBI of 4.54		3.00
Regionalized Index of Biotic Integrity (Fish) (FV)		7 different fish species collected Aquatic Life Use Score of 40		3.00
				CI 2.00

Transect 54 30.132536, -95.405650 to 30.131575, -95.405640				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 4% 96% <u>LB</u> 81% 19%	<u>Score</u>  1 2  2 4.5	Features: maintained ROW, backyards swimming pools, trees	2.22
Channel Alteration (AV)	100% Channelization, 4 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 5.51			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	8 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 1.84
Transect 55 30.131026, -95.405624 to 30.130066, -95.405623				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 4% 96% <u>LB</u> 85% 15%	<u>Score</u>  1 2  2 4.5	Features: maintained ROW, house, backyards, concrete drainage structures	2.17
Channel Alteration (AV)	100% Channelization, riprap, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	10 different macroinvertebrates collected HBI of 5.16			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	8 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.03

Transect 56    30.129519, -95.405623 to 30.128543, -95.405616				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 2% 98% <u>LB</u> 2% 89% 9%	<u>Score</u>  1 2  1 2 4.5	Features: maintained ROW, roads, backyards, trees	2.09
Channel Alteration (AV)	100% Channelization, 3 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.52			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	8 different fish species collected Aquatic Life Use Score of 46			4.00
				CI 2.42
Transect 57    30.128000, -95.405577 to 30.127030, -95.405602				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 5% 95% <u>LB</u> 80% 20%	<u>Score</u>  1 2  2 4.5	Features: maintained ROW, backyards, trees	2.23
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 4.29			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	8 different fish species collected Aquatic Life Use Score of 42			4.00
				CI 2.45



Transect 58    30.126476, -95.405596 to 30.125607, -95.405236							
Channel Condition (CV)		Channelization, no floodplain access, incision, erosional scars			1.00		
Riparian Buffers (BV)		<u>Percent</u> <u>RB</u> 8% 90% 2%	<u>Score</u> 1 2 4.5	Features: maintained ROW, wastewater treatment plant, concrete lining, trees, backyards	2.11		
		<u>LB</u> 90% 10%	2 4.5				
Channel Alteration (AV)		100% Channelization, 3 culverts, partial concrete lining, no floodplain access				1.00	
In-Stream Macroinvertebrate Observation (MV)		10 different macroinvertebrates collected HBI of 5.46				2.00	
Regionalized Index of Biotic Integrity (Fish) (FV)		8 different fish species collected Aquatic Life Use Score of 40			3.00		
					CI 1.82		
Transect 59    30.125391, -95.404643 to 30.125129, -95.403575							
Channel Condition (CV)		Channelization, no floodplain access, incision, erosional scars			1.00		
Riparian Buffers (BV)		<u>Percent</u> <u>RB</u> 1% 98% 1%	<u>Score</u> 1 2 4.5	Features: maintained ROW, maintained yards, trees	2.28		
		<u>LB</u> 1% 77% 22%	1 2 4.5				
Channel Alteration (AV)		100% Channelization, 2 culverts, no floodplain access				1.00	
In-Stream Macroinvertebrate Observation (MV)		5 different macroinvertebrates collected HBI of 4.85				3.00	
Regionalized Index of Biotic Integrity (Fish) (FV)		5 different fish species collected Aquatic Life Use Score of 40			3.00		
					CI 2.06		

Transect 60    30.124727, -95.403235 to 30.123781, -95.403163				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 100% <u>LB</u> 3% 95% 2%	<u>Score</u>  2  1 2 4.5	Features: maintained ROW, backyard, concrete lining, trees, dirt road	2.01
Channel Alteration (AV)	100% Channelization, partial concrete lining, articulated block, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	5 different macroinvertebrates collected HBI of 5.79			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	4 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.80
Transect 61    30.123213, -95.403087 to 30.122249, -95.403099				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 33% 59% 8% <u>LB</u> 72% 28%	<u>Score</u>  1 2 4.5  1 2	Features: maintained ROW, bridge, lift station, riprap	1.58
Channel Alteration (AV)	100% Channelization, riprap, 6 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 5.35			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	9 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 1.72

Transect 62    30.121695, -95.403059 to 30.120740, -95.402924				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 72% 28% <u>LB</u> 100%	<u>Score</u>  2 4.5  2	Features: Maintained ROW, trees, backyards	2.35
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	6 different macroinvertebrates collected HBI of 4.62			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	6 different fish species collected Aquatic Life Use Score of 34			2.00
				CI 1.87
Transect 63    30.120191, -95.402925 to 30.119232, -95.402892				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 87% 13% <u>LB</u> 100%	<u>Score</u>  2 4.5  2	Features: Maintained ROW, forested area	2.16
Channel Alteration (AV)	100% Channelization, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	6 different macroinvertebrates collected HBI of 4.79			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 1.83

Transect 64 30.118676, -95.402865 to 30.117705, -95.402862				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 70% 30% <u>LB</u> 100%	<u>Score</u>  2 4.5  2	Features: Maintained ROW, forested areas	2.38
Channel Alteration (AV)	100% Channelization, 3 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 5.23			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 40			3.00
				CI 2.08
Transect 65 30.117153, -95.402846 to 30.116193, -95.402864				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 81% 19% <u>LB</u> 6% 84% 10%	<u>Score</u>  2 4.5  1 2 4.5	Features: maintained ROW, forested areas, riprap	2.33
Channel Alteration (AV)	100% Channelization, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	10 different macroinvertebrates collected HBI of 5.17			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.07

Transect 66    30.115652, -95.402984 to 30.114799, -95.403532				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 83% 17% <u>LB</u> 10% 90%	<u>Score</u>  2 4.5  1 2	Features: maintained ROW, park path, forested area	2.16
Channel Alteration (AV)	100% Channelization, riprap, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	7 different macroinvertebrates collected HBI of 5.19			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	7 different fish species collected Aquatic Life Use Score of 42			4.00
				CI 2.23
Transect 67    30.114325, -95.403854 to 30.113566, -95.404541				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 100% <u>LB</u> 62% 38%	<u>Score</u>  2  2 4.5	Features: maintained ROW, park, backyards	2.48
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.77			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	6 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 2.10

Transect 68    30.113153, -95.404957 to 30.112375, -95.405543				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 5% 95% <u>LB</u> 100%	<u>Score</u>  1 2  2	Features: maintained ROW, maintained park, houses, backyards	1.98
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	10 different macroinvertebrates collected HBI of 4.71			3.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 2.00
Transect 69    30.111834, -95.405461 to 30.110872, -95.405382				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 4% 96% <u>LB</u> 100%	<u>Score</u>  1 2  2	Features: maintained ROW, houses, backyards, pipeline easement	1.98
Channel Alteration (AV)	100% Channelization, riprap, 3 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 4.28			4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	4 different fish species collected Aquatic Life Use Score of 34			2.00
				CI 2.00

Transect 70    30.110329, -95.405339 to 30.109363, -95.405398				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 1% 99% <u>LB</u> 93% 7%	<u>Score</u>  1 2  2 4.5	Features: maintained ROW, forested area, wastewater treatment plant, houses, backyards	2.08
Channel Alteration (AV)	100% Channelization, riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	7 different macroinvertebrates collected HBI of 6.07			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	5 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.82
Transect 71    30.108812, -95.405426 to 30.107844, -95.405482				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 1% 99% <u>LB</u> 62% 38%	<u>Score</u>  1 2  2 4.5	Features: maintained ROW, forested area, backyards, houses	2.47
Channel Alteration (AV)	100% Channelization, 2 culverts, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 5.64			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	2 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 1.69

Transect 72    30.107294, -95.405519 to 30.106334, -95.405589				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 2% 98% <u>LB</u> 64% 36%	<u>Score</u>  1 2  2 4.5	Features: maintained ROW, backyards, houses, forested area	2.44
Channel Alteration (AV)	100% Channelization, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	4 different macroinvertebrates collected HBI of 6.29			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	3 different fish species collected Aquatic Life Use Score of 34			2.00
				CI 1.69
Transect 73    30.105781, -95.405610 to 30.104816, -95.405670				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 100% <u>LB</u> 66% 34%	<u>Score</u>  2  2 4.5	Features: maintained ROW, forested area, maintained adjacent property, concrete intake structure, riprap	2.43
Channel Alteration (AV)	100% Channelization, culvert, riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 5.53			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	4 different fish species collected Aquatic Life Use Score of 34			2.00
				CI 1.69



Transect 74    30.104278, -95.405692 to 30.103314, -95.405751				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 100% <u>LB</u> 66% 34%	<u>Score</u>  2  2 4.5	Features: Maintained ROW, forested area, riprap	2.43
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 5.57			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	6 different fish species collected Aquatic Life Use Score of 38			3.00
				CI 1.89
Transect 75    30.102764, -95.405747 to 30.101794, -95.405800				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 1% 58% 41% <u>LB</u> 63% 37%	<u>Score</u>  1 2 4.5  2 4.5	Features: maintained ROW, forested area, riprap	2.97
Channel Alteration (AV)	100% Channelization, culvert, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	12 different macroinvertebrates collected HBI of 5.82			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	2 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 1.79

Transect 76 30.101447, -95.405800 to 30.100505, -95.406000					
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars				1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 84% 16% <u>LB</u> 1% 73% 26%	<u>Score</u>  2 4.5  1 2 4.5	Features: maintained ROW, forested area, riprap		2.52
Channel Alteration (AV)	100% Channelization, riprap, no floodplain access				1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 6.06				2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	4 different fish species collected Aquatic Life Use Score of 32				2.00
					CI 1.70
Transect 77 30.100166, -95.406117 to 30.099274, -95.406503					
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars				1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 75% 25% <u>LB</u> 73% 27%	<u>Score</u>  2 4.5  2 4.5	Features: maintained ROW, forested area, maintained adjacent property		2.65
Channel Alteration (AV)	100% Channelization, no floodplain access				1.00
In-Stream Macroinvertebrate Observation (MV)	10 different macroinvertebrates collected HBI of 3.98				4.00
Regionalized Index of Biotic Integrity (Fish) (FV)	2 different fish species collected Aquatic Life Use Score of 32				2.00
					CI 2.13

Transect 78 30.098947, -95.406629 to 30.098050, -95.407035				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 75% 25% <u>LB</u> 83% 17%	<u>Score</u>  2 4.5  2 4.5	Features: maintained ROW, forested area, maintained adjacent property	2.53
Channel Alteration (AV)	100% Channelization, culvert, riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 6.02			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	3 different fish species collected Aquatic Life Use Score of 32			2.00
				CI 1.71
Transect 79 30.097721, -95.407207 to 30.097682, -95.408282				
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 98% 2% <u>LB</u> 21% 63% 16%	<u>Score</u>  2 4.5  1 2 4.5	Features: maintained ROW, concrete lining, riprap, forested area	2.12
Channel Alteration (AV)	100% Channelization, partial concrete lining, riprap, no floodplain access			1.00
In-Stream Macroinvertebrate Observation (MV)	8 different macroinvertebrates collected HBI of 6.04			2.00
Regionalized Index of Biotic Integrity (Fish) (FV)	4 different fish species collected Aquatic Life Use Score of 36			3.00
				CI 1.82

Transect 80    30.097838, -95.408637 to 30.098241, -95.409643						
Channel Condition (CV)	Channelization, no floodplain access, incision, erosional scars			1.00		
Riparian Buffers (BV)	<u>Percent</u> <u>RB</u> 90% 10% <u>LB</u> 1% 62% 37%	<u>Score</u>  2 4.5  1 2 4.5	Features: maintained ROW, intake structure, riprap, forested area	2.58		
Channel Alteration (AV)	100% Channelization, riprap, no floodplain access				1.00	
In-Stream Macroinvertebrate Observation (MV)	9 different macroinvertebrates collected HBI of 6.21				2.00	
Regionalized Index of Biotic Integrity (Fish) (FV)	1 different fish species collected Aquatic Life Use Score of 34				2.00	
					CI 1.72	
RCI					2.00	

The Theoretical CV scores all remain as 1.00 due to channelization pre- and post-construction. The Theoretical BV scores remained the same, as all riprap and gabion materials to be installed in areas scored 2 for maintained ROW will be covered with soil for grass to establish over the top, resulting in maintained ROW post-construction. The Theoretical AV scores all remained 1 due to pre- and post-construction channelization. The Theoretical MV and FV scores were left as they were in the actual scoring. All the repairs are to side slopes except for nine bottom repairs. The impacts to the macroinvertebrates and fish are considered temporary, since they will be able to re-access the Transects again once the repairs are completed from adjacent transects not being impacted. The Theoretical RCI for the project is 2.00.

The difference between the RCI and the theoretical RCI, or Delta, is used to calculate the functional loss, if any, resulting from the project. The difference is referred to as a Reach Condition Index Delta (dRCI). The dRCI for the project is zero.

Any impacts are characterized into one of five classifications based on dRCI. Each classification has an associated Impact Factor (IF). The impacts for this project are classified as Temporary and have an IF of 1. While the site will not be returned to pre-construction contours and elevation, as the repairs are to fix erosional issues where material has failed and washed away, there will be no permanent loss of aquatic function.

To calculate debits associated with the project, the following formula is used:

$$\begin{aligned}\text{Debits} &= \text{dRCI} \times \text{IF} \times \text{Linear ft of impact} \\ \text{Debits} &= 0 \times 1 \times 43,665 \\ \text{Debits} &= 0\end{aligned}$$

The debits for this project are zero. The Stream Condition Assessment Summary Form is included in Appendix H.

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#### 4 DETERMINATION OF COMPENSATION (CREDITS)

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Compensation is not required for this project due to only temporary impacts resulting in a dRCI of zero and debits of zero.

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#### 5 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

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The material and data in this report were prepared under the supervision and direction of the undersigned.

Project Number 20.01.020  
May 25, 2021



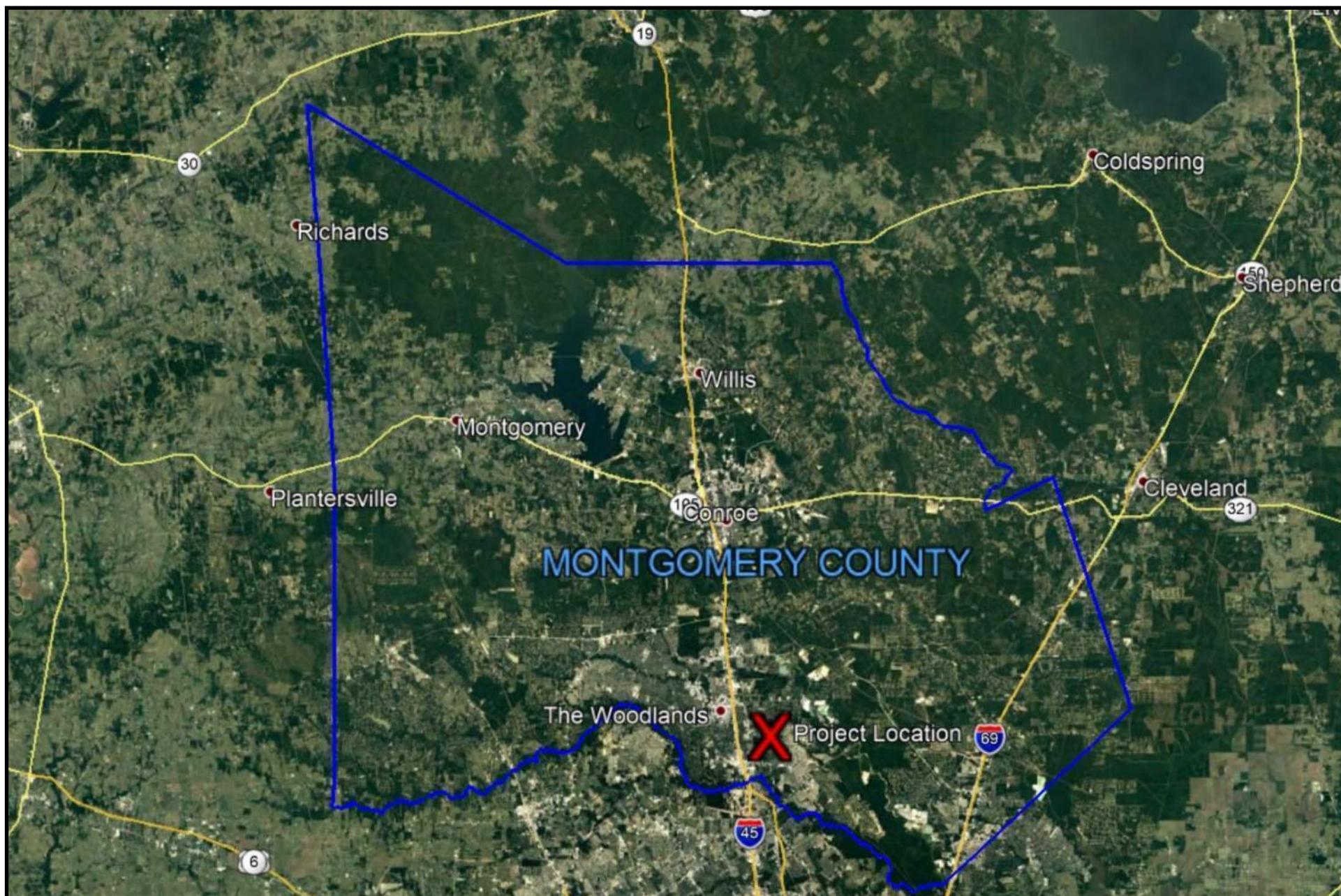
Christy Wild  
CEO



Paul Wild  
President

Figure 1: Project Location Map





Project:  
Stream Condition Assessment  
Channel III-A, III-C to III-F  
Spring, Montgomery County, TX  
SWG-2018-00952 MCDD6

### Figure 1 – Project Location Map

Base Map Source: Google Earth  
Image Date 11/16/2020



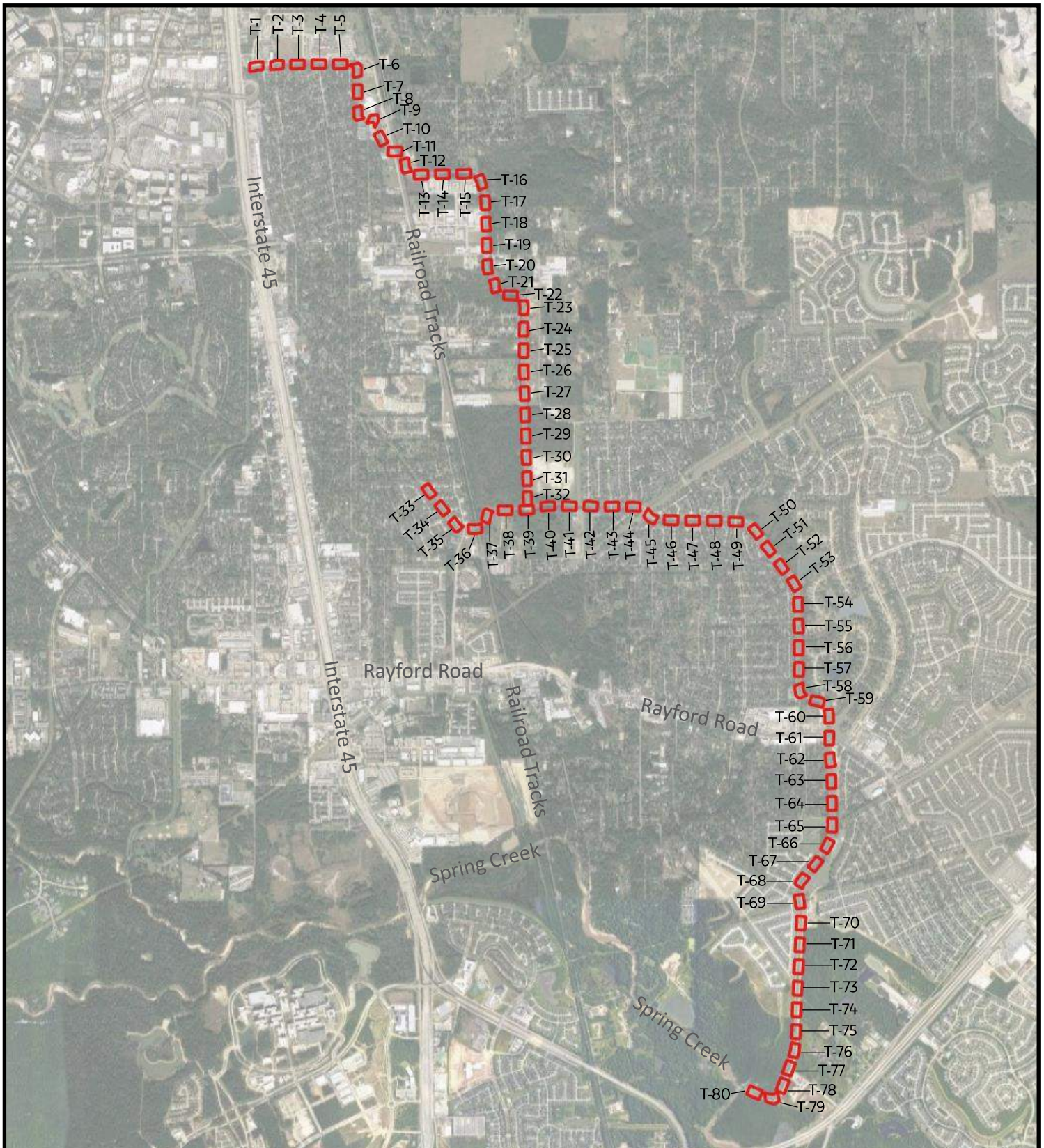
Scale: 1 in.  $\approx$  7 miles

Project No.: 20.01.021

Client:  
Montgomery County Drainage District  
Number 6

## Appendix A: Channel III-A, III-C, III-D, III-E, and III-F Transect Map & Coordinates





<p>Project: Stream Condition Assessment Channel III-A, III-C to III-F Spring, Montgomery County, TX</p>	<p><b>Channel III Transects</b> Base Map Source: Google Satellite Image Date 12/1/2019</p>		<p>Scale: 1in. ≈ 3,900 ft</p>
			<p>Project No.: 20.01.021</p> <p>Client: Montgomery County Drainage District Number 6</p>

Appendix A - Channels III-A, III-C, III-D, III-E, III-F Transect Flags		
Transect	Latitude	Longitude
Transect 1.1	30.169442	-95.449849
Transect 1.2	30.169560	-95.448754
Transect 2.1	30.169564	-95.448152
Transect 2.2	30.169647	-95.447133
Transect 3.1	30.169653	-95.446529
Transect 3.2	30.169685	-95.445421
Transect 4.1	30.169694	-95.444816
Transect 4.2	30.169691	-95.443703
Transect 5.1	30.169693	-95.443096
Transect 5.2	30.169695	-95.441990
Transect 6.1	30.169676	-95.441359
Transect 6.2	30.168801	-95.441150
Transect 7.1	30.168251	-95.441151
Transect 7.2	30.167285	-95.441146
Transect 8.1	30.166732	-95.441147
Transect 8.2	30.165837	-95.440917
Transect 9.1	30.165832	-95.440290
Transect 9.2	30.165476	-95.439612
Transect 10.1	30.164941	-95.439496
Transect 10.2	30.164081	-95.439003
Transect 11.1	30.163627	-95.438674
Transect 11.2	30.163579	-95.437584
Transect 12.1	30.163089	-95.437404
Transect 12.2	30.162160	-95.437126
Transect 13.1	30.161973	-95.436572
Transect 13.2	30.162001	-95.435460
Transect 14.1	30.162003	-95.434856
Transect 14.2	30.162024	-95.433745
Transect 15.1	30.162038	-95.433139
Transect 15.2	30.162055	-95.432027
Transect 16.1	30.161908	-95.431431
Transect 16.2	30.161020	-95.431034
Transect 17.1	30.160510	-95.430910
Transect 17.2	30.159546	-95.430815
Transect 18.1	30.159023	-95.430792
Transect 18.2	30.158073	-95.430753
Transect 19.1	30.157549	-95.430749
Transect 19.2	30.156586	-95.430716
Transect 20.1	30.156060	-95.430701
Transect 20.2	30.155108	-95.430585
Transect 21.1	30.154696	-95.430208
Transect 21.2	30.153816	-95.429904



Transect 22.1	30.153619	-95.429358
Transect 22.2	30.153535	-95.428249
Transect 23.1	30.153202	-95.427771
Transect 23.2	30.152241	-95.427729
Transect 24.1	30.151713	-95.427733
Transect 24.2	30.150742	-95.427748
Transect 25.1	30.150215	-95.427757
Transect 25.2	30.149251	-95.427759
Transect 26.1	30.148725	-95.427748
Transect 26.2	30.147757	-95.427713
Transect 27.1	30.147230	-95.427692
Transect 27.2	30.146267	-95.427653
Transect 28.1	30.145740	-95.427637
Transect 28.2	30.144776	-95.427617
Transect 29.1	30.144258	-95.427596
Transect 29.2	30.143286	-95.427565
Transect 30.1	30.142772	-95.427549
Transect 30.2	30.141813	-95.427525
Transect 31.1	30.141294	-95.427508
Transect 31.2	30.140325	-95.427479
Transect 32.1	30.139907	-95.427460
Transect 32.2	30.138954	-95.427418
Transect 33.1	30.140328	-95.435702
Transect 33.2	30.139551	-95.435074
Transect 34.1	30.139114	-95.434691
Transect 34.2	30.138369	-95.433992
Transect 35.1	30.137937	-95.433598
Transect 35.2	30.137290	-95.432847
Transect 36.1	30.137289	-95.432213
Transect 36.2	30.137355	-95.431126
Transect 37.1	30.137767	-95.430825
Transect 37.2	30.138598	-95.430437
Transect 38.1	30.138585	-95.429802
Transect 38.2	30.138585	-95.428693
Transect 39.1	30.138590	-95.428062
Transect 39.2	30.138650	-95.426957
Transect 40.1	30.138832	-95.426357
Transect 40.2	30.138893	-95.425252
Transect 41.1	30.138893	-95.424628
Transect 41.2	30.138855	-95.423522
Transect 42.1	30.138900	-95.422894
Transect 42.2	30.138849	-95.421808
Transect 43.1	30.138833	-95.421181
Transect 43.2	30.138862	-95.420092

Transect 44.1	30.138816	-95.419465
Transect 44.2	30.138805	-95.418365
Transect 45.1	30.138446	-95.417911
Transect 45.2	30.137911	-95.417063
Transect 46.1	30.137911	-95.416419
Transect 46.2	30.137871	-95.415313
Transect 47.1	30.137861	-95.414679
Transect 47.2	30.137867	-95.413578
Transect 48.1	30.137852	-95.412949
Transect 48.2	30.137825	-95.411837
Transect 49.1	30.137805	-95.411199
Transect 49.2	30.137783	-95.410094
Transect 50.1	30.137482	-95.409437
Transect 50.2	30.136732	-95.408758
Transect 51.1	30.136287	-95.408379
Transect 51.2	30.135503	-95.407719
Transect 52.1	30.135058	-95.407337
Transect 52.2	30.134296	-95.406672
Transect 53.1	30.133877	-95.406275
Transect 53.2	30.133077	-95.405689
Transect 54.1	30.132536	-95.405650
Transect 54.2	30.131575	-95.405640
Transect 55.1	30.131026	-95.405624
Transect 55.2	30.130066	-95.405623
Transect 56.1	30.129519	-95.405623
Transect 56.2	30.128543	-95.405616
Transect 57.1	30.128000	-95.405577
Transect 57.2	30.127030	-95.405602
Transect 58.1	30.126476	-95.405596
Transect 58.2	30.125607	-95.405236
Transect 59.1	30.125391	-95.404643
Transect 59.2	30.125129	-95.403575
Transect 60.1	30.124727	-95.403235
Transect 60.2	30.123781	-95.403163
Transect 61.1	30.123213	-95.403087
Transect 61.2	30.122249	-95.403099
Transect 62.1	30.121695	-95.403059
Transect 62.2	30.120740	-95.402924
Transect 63.1	30.120191	-95.402925
Transect 63.2	30.119232	-95.402892
Transect 64.1	30.118676	-95.402865
Transect 64.2	30.117705	-95.402862
Transect 65.1	30.117153	-95.402846
Transect 65.2	30.116193	-95.402864

Transect 66.1	30.115652	-95.402984
Transect 66.2	30.114799	-95.403532
Transect 67.1	30.114325	-95.403854
Transect 67.2	30.113566	-95.404541
Transect 68.1	30.113153	-95.404957
Transect 68.2	30.112375	-95.405543
Transect 69.1	30.111834	-95.405461
Transect 69.2	30.110872	-95.405382
Transect 70.1	30.110329	-95.405339
Transect 70.2	30.109363	-95.405398
Transect 71.1	30.108812	-95.405426
Transect 71.2	30.107844	-95.405482
Transect 72.1	30.107294	-95.405519
Transect 72.2	30.106334	-95.405589
Transect 73.1	30.105781	-95.405610
Transect 73.2	30.104816	-95.405670
Transect 74.1	30.104278	-95.405692
Transect 74.2	30.103314	-95.405751
Transect 75.1	30.102764	-95.405747
Transect 75.2	30.101794	-95.405800
Transect 76.1	30.101447	-95.405800
Transect 76.2	30.100505	-95.406000
Transect 77.1	30.100166	-95.406117
Transect 77.2	30.099274	-95.406503
Transect 78.1	30.098947	-95.406629
Transect 78.2	30.098050	-95.407035
Transect 79.1	30.097721	-95.407207
Transect 79.2	30.097682	-95.408282
Transect 80.1	30.097838	-95.408637
Transect 80.2	30.098241	-95.409643

## Appendix B: OHWM Data Attribute Table

DATA ATTRIBUTE TABLE										
	NAD 1983									
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Test Pits										
A-DP_01	30.126252	-95.438403	3.1	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/7/2019	07:41:05am	0.3	6+	DR, PW, CW
B_DP_01	30.135731	-95.422900	2.5	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	07:18:50am	0.3	6+	DR, PW, CW
C_DP_01	30.137172	-95.432921	5.1	Postprocessed Code	Geo 7X (H-Star)	9/8/2019	12:50:58pm	0.3	6+	DR, PW, CW
Benchmarks										
Manhole Cover	30.133459	-95.405518	1.6	Postprocessed Carrier Fixed	Geo 7X (Centimeter)	9/29/2019	08:17:42am	0.1	6+	DR, PW, CW
Manhole Cover	30.122866	-95.402826	1.4	Postprocessed Carrier Fixed	Geo 7X (Centimeter)	9/29/2019	08:56:44am	0.1	6+	DR, PW, CW
C_BM1	30.133459	-95.405516	1.8	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	08:16:12am	0.3	6+	DR, PW, CW
C_BM2	30.122573	-95.402864	1.4	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	08:58:20am	0.3	6+	DR, PW, CW
Manhole Cover	30.127046	-95.436910	1.2	Postprocessed Carrier Fixed	Geo 7X (Centimeter)	9/7/2019	07:21:16am	0.0	6+	DR, PW, CW
Manhole Cover	30.125810	-95.437982	1.3	Postprocessed Carrier Fixed	Geo 7X (Centimeter)	9/7/2019	07:26:32am	0.0	6+	DR, PW, CW
P7 104 rod	30.120886	-95.430022	1.9	Postprocessed Carrier Fixed	Geo 7X (Centimeter)	9/7/2019	08:56:04am	0.1	6+	DR, PW, CW
Culvert	30.116580	-95.428118	2.8	Postprocessed Carrier Fixed	Geo 7X (Centimeter)	9/7/2019	09:30:55am	0.1	6+	DR, PW, CW
Culvert	30.116503	-95.428074	2.2	Postprocessed Carrier Fixed	Geo 7X (Centimeter)	9/7/2019	09:32:18am	0.1	6+	DR, PW, CW
Manhole Cover	30.117734	-95.428317	1.8	Postprocessed Carrier Fixed	Geo 7X (Centimeter)	9/7/2019	10:35:10am	0.1	6+	DR, PW, CW
Manhole Cover	30.125858	-95.433318	1.8	Postprocessed Carrier Fixed	Geo 7X (Centimeter)	9/7/2019	11:06:18am	0.1	6+	DR, PW, CW
Manhole Cover	30.134208	-95.415378	2.2	Postprocessed Carrier Fixed	Geo 7X (Centimeter)	9/8/2019	08:12:14am	0.1	6+	DR, PW, CW
Manhole Cover	30.130714	-95.411692	2.3	Postprocessed Carrier Fixed	Geo 7X (Centimeter)	9/8/2019	09:14:22am	0.1	6+	DR, PW, CW
Survey Rod	30.137378	-95.430891	2.9	Postprocessed Code	Geo 7X (Centimeter)	9/8/2019	12:44:07pm	1.0	6+	DR, PW, CW
A_BM1	30.125810	-95.437980	3.7	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/7/2019	07:25:27am	0.3	6+	DR, PW, CW
A-culvert	30.126846	-95.438311	2.3	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/7/2019	07:30:00am	0.3	6+	DR, PW, CW
A_BM2	30.125859	-95.433318	2.2	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/7/2019	11:05:29am	0.3	6+	DR, PW, CW
B-BM3	30.135486	-95.422893	1.8	Postprocessed Code	Geo 7X (H-Star)	9/8/2019	07:13:43am	0.3	6+	DR, PW, CW
C_BM3	30.138063	-95.410557	3.1	Postprocessed Code	Geo 7X (H-Star)	9/8/2019	01:48:03pm	0.3	6+	DR, PW, CW
Manhole Cover	30.137632	-95.410565	2.5	Postprocessed Code	Geo 7X (Centimeter)	9/8/2019	03:10:08pm	0.1	6+	DR, PW, CW
Channel III-A OHWM										
Channel III-A	30.163606	-95.438338	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163608	-95.438348	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163605	-95.438337	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163603	-95.438340	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163607	-95.438338	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163604	-95.438345	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163603	-95.438353	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163602	-95.438363	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.163601	-95.438372	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163600	-95.438380	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163598	-95.438391	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163598	-95.438401	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163599	-95.438412	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163598	-95.438422	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163598	-95.438432	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163598	-95.438442	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163600	-95.438451	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163601	-95.438457	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163603	-95.438466	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163603	-95.438474	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163603	-95.438484	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163603	-95.438492	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163604	-95.438503	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163605	-95.438513	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163606	-95.438522	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163608	-95.438531	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163611	-95.438543	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163612	-95.438553	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163614	-95.438563	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163616	-95.438576	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163618	-95.438586	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163621	-95.438595	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163625	-95.438605	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163629	-95.438616	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163632	-95.438625	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163636	-95.438634	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163641	-95.438645	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163645	-95.438655	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163650	-95.438662	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163656	-95.438673	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163661	-95.438684	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163665	-95.438692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163672	-95.438701	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.163678	-95.438709	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163685	-95.438715	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163692	-95.438723	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163698	-95.438729	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163704	-95.438737	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163709	-95.438743	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163715	-95.438751	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163723	-95.438758	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163729	-95.438765	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163734	-95.438773	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163740	-95.438779	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163745	-95.438782	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163751	-95.438787	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163755	-95.438790	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163757	-95.438795	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163758	-95.438804	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163759	-95.438811	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163767	-95.438814	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163776	-95.438814	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163785	-95.438817	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163797	-95.438820	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163802	-95.438822	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163806	-95.438825	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163812	-95.438829	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163818	-95.438832	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163827	-95.438837	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163836	-95.438841	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163845	-95.438843	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163853	-95.438847	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163860	-95.438851	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163869	-95.438856	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163877	-95.438859	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163885	-95.438862	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163894	-95.438865	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163901	-95.438868	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.163908	-95.438871	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163917	-95.438872	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163926	-95.438875	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163933	-95.438878	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163942	-95.438882	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163952	-95.438884	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163959	-95.438887	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163964	-95.438888	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163969	-95.438889	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163973	-95.438892	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163977	-95.438893	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163982	-95.438895	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163987	-95.438896	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163993	-95.438899	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164000	-95.438902	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164006	-95.438904	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164012	-95.438907	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164018	-95.438910	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164024	-95.438913	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164028	-95.438918	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164041	-95.438925	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164052	-95.438935	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164058	-95.438940	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164064	-95.438946	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164072	-95.438953	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164080	-95.438959	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164087	-95.438965	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164094	-95.438972	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164101	-95.438980	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164108	-95.438989	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164114	-95.438998	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164120	-95.439008	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164126	-95.439017	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164130	-95.439024	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164137	-95.439030	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.164147	-95.439035	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164154	-95.439038	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164161	-95.439043	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164169	-95.439050	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164177	-95.439056	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164183	-95.439062	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164191	-95.439066	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164199	-95.439070	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164207	-95.439074	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164219	-95.439077	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164227	-95.439081	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164233	-95.439084	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164242	-95.439087	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164249	-95.439091	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164256	-95.439094	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164261	-95.439100	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164265	-95.439114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164274	-95.439111	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164283	-95.439115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164296	-95.439119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164307	-95.439123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164318	-95.439129	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164328	-95.439128	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164335	-95.439132	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164341	-95.439132	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164349	-95.439143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164355	-95.439137	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164368	-95.439144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164366	-95.439142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164376	-95.439145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164382	-95.439148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164391	-95.439151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164397	-95.439155	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164401	-95.439154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164405	-95.439158	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.164410	-95.439158	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164419	-95.439164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164423	-95.439167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164426	-95.439167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164431	-95.439170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164437	-95.439176	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164442	-95.439178	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164447	-95.439179	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164452	-95.439180	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164456	-95.439181	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164460	-95.439183	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164463	-95.439184	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164467	-95.439186	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164470	-95.439188	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164471	-95.439185	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164474	-95.439187	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164478	-95.439188	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164481	-95.439190	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164483	-95.439191	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164487	-95.439192	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164489	-95.439193	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164492	-95.439196	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164494	-95.439197	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164498	-95.439199	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164501	-95.439202	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164506	-95.439206	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164509	-95.439206	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164513	-95.439208	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164516	-95.439210	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164520	-95.439211	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164522	-95.439214	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164525	-95.439216	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164532	-95.439224	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164541	-95.439236	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164542	-95.439245	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.164556	-95.439243	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164559	-95.439257	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164563	-95.439269	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164571	-95.439275	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164583	-95.439292	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164591	-95.439298	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164602	-95.439307	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164610	-95.439304	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164614	-95.439302	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164618	-95.439304	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164628	-95.439314	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164636	-95.439315	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164647	-95.439313	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164652	-95.439318	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164661	-95.439319	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164669	-95.439328	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164678	-95.439326	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164687	-95.439333	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164694	-95.439336	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164704	-95.439342	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164710	-95.439350	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164715	-95.439357	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164724	-95.439357	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164732	-95.439365	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164736	-95.439373	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164744	-95.439380	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164752	-95.439386	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164757	-95.439389	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164764	-95.439397	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164773	-95.439404	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164780	-95.439410	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164793	-95.439413	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164801	-95.439417	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164811	-95.439424	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164819	-95.439426	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.164827	-95.439433	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164837	-95.439436	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164848	-95.439439	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164857	-95.439444	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164864	-95.439448	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164872	-95.439453	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164880	-95.439458	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164885	-95.439461	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164895	-95.439466	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164904	-95.439473	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164911	-95.439478	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164919	-95.439483	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164928	-95.439488	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164935	-95.439495	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164945	-95.439499	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164953	-95.439505	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164962	-95.439514	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164967	-95.439510	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164978	-95.439517	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164986	-95.439525	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164987	-95.439536	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164995	-95.439544	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165013	-95.439534	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165025	-95.439537	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165031	-95.439540	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165039	-95.439541	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165047	-95.439543	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165053	-95.439544	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165060	-95.439545	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165068	-95.439547	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165078	-95.439547	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165087	-95.439547	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165095	-95.439553	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165104	-95.439555	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165113	-95.439555	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.165121	-95.439556	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165128	-95.439557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165134	-95.439559	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165139	-95.439554	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165145	-95.439551	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165154	-95.439554	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165163	-95.439556	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165171	-95.439557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165178	-95.439557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165188	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165197	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165205	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165212	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165218	-95.439557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165221	-95.439557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165226	-95.439557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165230	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165237	-95.439560	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165240	-95.439556	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165245	-95.439557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165250	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165255	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165259	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165263	-95.439557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165267	-95.439557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165272	-95.439557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165273	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165277	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165280	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165283	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165286	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165289	-95.439559	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165293	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165296	-95.439557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165300	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.165302	-95.439559	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165308	-95.439560	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165312	-95.439559	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165315	-95.439559	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165317	-95.439559	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165320	-95.439560	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165323	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165329	-95.439560	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165333	-95.439561	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165335	-95.439561	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165338	-95.439561	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165340	-95.439560	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165346	-95.439561	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165351	-95.439561	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165356	-95.439562	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165358	-95.439562	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165358	-95.439559	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165365	-95.439562	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165368	-95.439561	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165372	-95.439561	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165380	-95.439557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165385	-95.439556	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165384	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165387	-95.439563	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165400	-95.439565	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165410	-95.439561	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165423	-95.439559	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165429	-95.439562	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165430	-95.439557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165431	-95.439551	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165436	-95.439556	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165446	-95.439567	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165448	-95.439565	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165454	-95.439560	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165458	-95.439559	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.165463	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165468	-95.439560	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165469	-95.439563	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165472	-95.439560	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165483	-95.439562	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165481	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165487	-95.439569	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165489	-95.439569	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165492	-95.439571	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165494	-95.439576	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165498	-95.439575	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165507	-95.439577	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165514	-95.439575	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165517	-95.439589	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165512	-95.439584	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165517	-95.439572	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165516	-95.439571	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165512	-95.439575	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165523	-95.439560	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165530	-95.439566	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165539	-95.439569	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165550	-95.439569	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165557	-95.439582	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165551	-95.439582	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165555	-95.439585	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165554	-95.439585	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165560	-95.439586	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165564	-95.439588	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165571	-95.439587	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165581	-95.439582	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165594	-95.439578	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165608	-95.439577	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165607	-95.439579	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165623	-95.439602	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165634	-95.439597	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.165638	-95.439594	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165636	-95.439588	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165638	-95.439588	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165605	-95.439596	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165626	-95.439594	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165625	-95.439598	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165624	-95.439598	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165620	-95.439597	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165831	-95.439587	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165833	-95.439594	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165835	-95.439595	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165834	-95.439601	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165831	-95.439613	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165832	-95.439618	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165830	-95.439620	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165839	-95.439623	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165844	-95.439628	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165848	-95.439631	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165858	-95.439634	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165866	-95.439637	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165874	-95.439640	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165880	-95.439644	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165885	-95.439651	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165893	-95.439657	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165902	-95.439664	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165908	-95.439670	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165913	-95.439676	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165917	-95.439685	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165914	-95.439690	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165917	-95.439698	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165918	-95.439708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165920	-95.439719	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165920	-95.439728	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165921	-95.439739	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165921	-95.439750	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.165920	-95.439760	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165923	-95.439767	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165924	-95.439779	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165923	-95.439786	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165926	-95.439793	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165927	-95.439801	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165927	-95.439806	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165928	-95.439811	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165918	-95.439815	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165924	-95.439817	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165921	-95.439821	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165919	-95.439827	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165917	-95.439830	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165914	-95.439833	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165912	-95.439837	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165914	-95.439847	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165910	-95.439853	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165915	-95.439866	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165916	-95.439868	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165915	-95.439870	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165914	-95.439871	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165914	-95.439874	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165913	-95.439878	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165914	-95.439881	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165914	-95.439884	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165914	-95.439889	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165914	-95.439895	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165914	-95.439900	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165914	-95.439903	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165913	-95.439907	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165912	-95.439909	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165910	-95.439914	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165909	-95.439919	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165908	-95.439925	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165907	-95.439930	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.165900	-95.439936	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165901	-95.439942	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165881	-95.439925	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165879	-95.439931	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165878	-95.439936	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165876	-95.439942	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165873	-95.439946	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165869	-95.439951	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165867	-95.439958	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165864	-95.439963	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165860	-95.439969	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165858	-95.439975	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165854	-95.439982	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165851	-95.439987	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165848	-95.439995	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165845	-95.440005	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165842	-95.440012	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165840	-95.440022	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165840	-95.440029	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165839	-95.440040	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165838	-95.440049	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165848	-95.440081	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165852	-95.440096	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165851	-95.440124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165837	-95.440130	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165838	-95.440134	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165839	-95.440141	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165848	-95.440154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165849	-95.440168	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165860	-95.440190	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165865	-95.440194	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165868	-95.440200	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165871	-95.440217	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165871	-95.440222	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165874	-95.440232	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.165873	-95.440234	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165870	-95.440252	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165866	-95.440260	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165860	-95.440269	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165865	-95.440282	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165855	-95.440294	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165850	-95.440287	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165862	-95.440308	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165872	-95.440316	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165884	-95.440302	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165885	-95.440287	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165895	-95.440283	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165899	-95.440286	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165901	-95.440287	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165887	-95.440298	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165889	-95.440299	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165863	-95.440486	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165863	-95.440486	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165863	-95.440488	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165862	-95.440490	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165861	-95.440495	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165858	-95.440503	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165859	-95.440514	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165853	-95.440522	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165850	-95.440534	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165847	-95.440546	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165843	-95.440558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165840	-95.440570	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165837	-95.440581	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165835	-95.440594	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165831	-95.440605	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165829	-95.440616	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165826	-95.440627	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165824	-95.440638	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165821	-95.440649	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.165820	-95.440656	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165817	-95.440663	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165814	-95.440669	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165811	-95.440674	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165808	-95.440679	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165805	-95.440684	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165801	-95.440691	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165804	-95.440700	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165805	-95.440707	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165806	-95.440784	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165806	-95.440787	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165805	-95.440789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165807	-95.440796	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165806	-95.440799	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165807	-95.440804	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165807	-95.440809	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165807	-95.440811	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165808	-95.440815	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165809	-95.440819	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165811	-95.440823	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165812	-95.440828	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165813	-95.440833	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165814	-95.440837	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165816	-95.440842	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165817	-95.440846	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165818	-95.440851	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165820	-95.440856	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165822	-95.440860	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165823	-95.440865	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165824	-95.440870	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165825	-95.440873	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165827	-95.440878	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165829	-95.440882	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165831	-95.440888	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165834	-95.440894	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.165841	-95.440909	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165846	-95.440916	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165849	-95.440925	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165853	-95.440929	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165861	-95.440945	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165886	-95.440979	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165893	-95.440988	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165903	-95.441003	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165910	-95.441010	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165959	-95.441049	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165968	-95.441066	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165977	-95.441074	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165986	-95.441081	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166001	-95.441093	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166034	-95.441113	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166084	-95.441124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166096	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166109	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166121	-95.441109	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166125	-95.441103	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166122	-95.441097	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166129	-95.441095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166137	-95.441093	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166138	-95.441091	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166147	-95.441091	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166166	-95.441092	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166174	-95.441093	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166183	-95.441093	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166190	-95.441092	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166186	-95.441094	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166186	-95.441094	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166187	-95.441094	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166199	-95.441094	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166190	-95.441092	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166191	-95.441092	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.166201	-95.441093	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166202	-95.441094	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166202	-95.441094	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166202	-95.441095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166202	-95.441095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166202	-95.441095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166209	-95.441095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166215	-95.441094	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166220	-95.441095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166223	-95.441094	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166229	-95.441095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166236	-95.441096	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166243	-95.441095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166253	-95.441096	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166262	-95.441095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166270	-95.441095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166278	-95.441094	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166287	-95.441093	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166294	-95.441095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166301	-95.441095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166306	-95.441096	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166312	-95.441098	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166316	-95.441100	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166314	-95.441099	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166319	-95.441100	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166330	-95.441103	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166348	-95.441109	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166356	-95.441107	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166360	-95.441113	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166367	-95.441121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166379	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166388	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166397	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166404	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166415	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.166427	-95.441118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166437	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166447	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166460	-95.441106	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166447	-95.441106	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166455	-95.441098	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166467	-95.441101	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166467	-95.441101	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166483	-95.441099	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166483	-95.441105	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166489	-95.441098	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166486	-95.441095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166495	-95.441095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166507	-95.441100	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166524	-95.441105	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166517	-95.441106	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166522	-95.441105	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166552	-95.441110	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166559	-95.441117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166562	-95.441110	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166562	-95.441119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166575	-95.441121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166577	-95.441125	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166573	-95.441130	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166578	-95.441142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166571	-95.441153	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166580	-95.441170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166582	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166583	-95.441136	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166591	-95.441134	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166615	-95.441132	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166673	-95.441133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166691	-95.441129	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166702	-95.441129	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166710	-95.441122	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.166708	-95.441118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166725	-95.441113	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166745	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166744	-95.441120	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166745	-95.441122	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166751	-95.441126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166747	-95.441124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166754	-95.441124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166744	-95.441125	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166737	-95.441123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166745	-95.441123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166747	-95.441127	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166756	-95.441122	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166761	-95.441123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166766	-95.441118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166768	-95.441112	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166783	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166786	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166797	-95.441122	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166802	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166807	-95.441120	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166811	-95.441123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166809	-95.441121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166821	-95.441124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166830	-95.441125	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166839	-95.441130	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166841	-95.441121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166857	-95.441131	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166865	-95.441134	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166868	-95.441128	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166872	-95.441125	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166873	-95.441125	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166884	-95.441123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166883	-95.441117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166892	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.166894	-95.441112	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166898	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166915	-95.441128	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166938	-95.441129	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166944	-95.441125	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166956	-95.441123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166959	-95.441129	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166975	-95.441124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166981	-95.441120	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166989	-95.441122	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166987	-95.441126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167002	-95.441127	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167014	-95.441124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167030	-95.441121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167029	-95.441118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167044	-95.441119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167059	-95.441118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167062	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167076	-95.441124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167084	-95.441131	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167093	-95.441126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167095	-95.441130	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167094	-95.441138	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167111	-95.441133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167126	-95.441136	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167135	-95.441136	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167150	-95.441139	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167162	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167172	-95.441131	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167172	-95.441135	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167176	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167192	-95.441158	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167207	-95.441175	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167203	-95.441175	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167207	-95.441171	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.167217	-95.441168	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167232	-95.441159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167240	-95.441176	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167254	-95.441199	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167271	-95.441183	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167288	-95.441193	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167307	-95.441196	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167319	-95.441194	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167327	-95.441185	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167337	-95.441189	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167334	-95.441181	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167349	-95.441167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167367	-95.441176	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167374	-95.441180	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167375	-95.441177	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167389	-95.441185	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167404	-95.441171	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167415	-95.441187	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167427	-95.441194	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167439	-95.441204	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167437	-95.441200	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167458	-95.441191	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167471	-95.441191	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167485	-95.441185	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167490	-95.441177	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167493	-95.441174	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167502	-95.441170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167512	-95.441175	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167519	-95.441170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167528	-95.441169	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167537	-95.441171	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167549	-95.441186	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167566	-95.441182	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167587	-95.441167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167599	-95.441160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.167597	-95.441153	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167607	-95.441155	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167615	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167615	-95.441166	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167626	-95.441160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167631	-95.441151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167644	-95.441171	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167651	-95.441178	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167672	-95.441175	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167684	-95.441164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167696	-95.441156	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167705	-95.441149	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167715	-95.441149	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167724	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167737	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167748	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167755	-95.441137	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167764	-95.441131	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167774	-95.441129	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167783	-95.441132	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167803	-95.441127	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167806	-95.441119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167819	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167833	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167846	-95.441117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167859	-95.441126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167871	-95.441131	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167875	-95.441128	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167908	-95.441124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167920	-95.441125	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167931	-95.441130	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167944	-95.441135	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167971	-95.441141	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167977	-95.441132	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167986	-95.441130	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.167986	-95.441122	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167988	-95.441125	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167994	-95.441126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168000	-95.441126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168008	-95.441126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168015	-95.441127	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168022	-95.441126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168030	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168034	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168048	-95.441157	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168057	-95.441148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168059	-95.441137	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168056	-95.441119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168056	-95.441131	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168054	-95.441130	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168063	-95.441118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168062	-95.441118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168063	-95.441118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168066	-95.441117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168058	-95.441113	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168060	-95.441109	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168063	-95.441108	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168065	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168060	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168062	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168073	-95.441111	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168076	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168081	-95.441118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168086	-95.441119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168084	-95.441103	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168093	-95.441107	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168104	-95.441109	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168106	-95.441108	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168119	-95.441107	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168123	-95.441104	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.168146	-95.441093	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168163	-95.441086	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168162	-95.441088	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168168	-95.441093	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168171	-95.441095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168173	-95.441102	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168186	-95.441101	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168196	-95.441101	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168197	-95.441108	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168195	-95.441105	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168204	-95.441104	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168212	-95.441107	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168213	-95.441104	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168230	-95.441110	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168227	-95.441107	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168238	-95.441118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168246	-95.441108	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168263	-95.441117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168258	-95.441113	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168264	-95.441106	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168258	-95.441096	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168274	-95.441111	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168289	-95.441112	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168302	-95.441118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168318	-95.441121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168331	-95.441123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168331	-95.441110	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168342	-95.441106	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168343	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168342	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168337	-95.441121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168344	-95.441117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168346	-95.441119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168339	-95.441118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168340	-95.441122	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.168362	-95.441135	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168378	-95.441136	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168385	-95.441128	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168400	-95.441126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168408	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168423	-95.441125	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168431	-95.441126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168442	-95.441137	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168428	-95.441136	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168400	-95.441132	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168430	-95.441148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168430	-95.441140	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168437	-95.441129	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168446	-95.441132	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168449	-95.441140	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168456	-95.441141	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168462	-95.441132	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168465	-95.441138	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168469	-95.441137	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168472	-95.441142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168478	-95.441134	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168488	-95.441139	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168496	-95.441142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168497	-95.441141	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168494	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168490	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168500	-95.441162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168512	-95.441151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168534	-95.441142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168534	-95.441142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168530	-95.441136	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168543	-95.441136	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168541	-95.441138	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168552	-95.441142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168557	-95.441133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.168556	-95.441125	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168554	-95.441123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168554	-95.441133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168552	-95.441137	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168559	-95.441126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168574	-95.441117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168575	-95.441117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168584	-95.441118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168581	-95.441119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168593	-95.441123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168604	-95.441134	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168605	-95.441133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168623	-95.441133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168631	-95.441139	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168645	-95.441159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168659	-95.441156	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168657	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168665	-95.441139	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168674	-95.441133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168685	-95.441136	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168690	-95.441127	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168696	-95.441134	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168704	-95.441130	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168714	-95.441133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168718	-95.441121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168730	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168742	-95.441127	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168745	-95.441128	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168750	-95.441126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168762	-95.441121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168769	-95.441122	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168776	-95.441123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168785	-95.441134	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168798	-95.441142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168809	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.168818	-95.441139	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168824	-95.441141	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168815	-95.441140	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168835	-95.441135	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168846	-95.441135	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168856	-95.441125	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168876	-95.441121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168886	-95.441124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168901	-95.441129	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168909	-95.441121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168914	-95.441119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168915	-95.441117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168926	-95.441119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168935	-95.441117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168945	-95.441113	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168941	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168949	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168950	-95.441121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168958	-95.441123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168958	-95.441126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168965	-95.441123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168967	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168977	-95.441108	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168984	-95.441117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168986	-95.441117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168986	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168994	-95.441118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168993	-95.441123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168999	-95.441117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169004	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169017	-95.441120	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169013	-95.441126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169015	-95.441133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169013	-95.441135	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169034	-95.441121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169041	-95.441126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169051	-95.441126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169049	-95.441129	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169056	-95.441128	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169068	-95.441138	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169081	-95.441126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169087	-95.441123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169099	-95.441133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169103	-95.441141	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169101	-95.441148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169095	-95.441134	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169109	-95.441134	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169113	-95.441135	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169126	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169133	-95.441135	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169148	-95.441142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169160	-95.441133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169169	-95.441139	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169180	-95.441130	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169182	-95.441126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169189	-95.441124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169198	-95.441129	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169208	-95.441119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169219	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169227	-95.441129	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169237	-95.441130	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169252	-95.441128	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169251	-95.441131	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169260	-95.441123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169266	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169286	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169297	-95.441101	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169309	-95.441096	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169324	-95.441110	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169325	-95.441108	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169324	-95.441104	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169328	-95.441120	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169326	-95.441113	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169320	-95.441118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169333	-95.441121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169332	-95.441119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169348	-95.441120	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169359	-95.441124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169354	-95.441121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169363	-95.441109	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169377	-95.441108	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169377	-95.441106	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169379	-95.441098	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169361	-95.441092	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169356	-95.441102	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169368	-95.441107	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169368	-95.441108	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169369	-95.441099	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169371	-95.441100	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169377	-95.441107	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169378	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169378	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169376	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169377	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169378	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169379	-95.441112	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169379	-95.441113	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169379	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169379	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169384	-95.441113	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169385	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169389	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169393	-95.441117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169400	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169406	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169408	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169410	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169412	-95.441112	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169416	-95.441110	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169419	-95.441111	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169421	-95.441108	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169420	-95.441109	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169423	-95.441111	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169431	-95.441110	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169431	-95.441110	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169435	-95.441111	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169436	-95.441110	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169438	-95.441109	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169440	-95.441110	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169436	-95.441112	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169441	-95.441112	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169444	-95.441113	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169447	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169450	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169455	-95.441110	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169455	-95.441113	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169466	-95.441112	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169464	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169466	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169470	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169476	-95.441112	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169486	-95.441108	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169482	-95.441110	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169477	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169479	-95.441113	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169486	-95.441110	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169483	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169484	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169487	-95.441114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169490	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169491	-95.441118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169493	-95.441119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169502	-95.441115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169496	-95.441121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169506	-95.441116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169511	-95.441119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169515	-95.441120	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169516	-95.441121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169519	-95.441122	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169521	-95.441124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169533	-95.441128	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169538	-95.441132	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169547	-95.441136	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169556	-95.441144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169561	-95.441151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169567	-95.441156	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169569	-95.441166	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169580	-95.441175	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169581	-95.441166	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169589	-95.441157	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169597	-95.441165	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169598	-95.441176	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169598	-95.441178	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169601	-95.441177	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169615	-95.441170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169616	-95.441177	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169617	-95.441177	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169609	-95.441184	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169618	-95.441187	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169622	-95.441190	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169620	-95.441187	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169640	-95.441195	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169647	-95.441202	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169650	-95.441204	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169649	-95.441215	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169656	-95.441222	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.441224	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.441230	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.441242	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.441259	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.441274	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169682	-95.441281	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169684	-95.441281	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169696	-95.441281	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169694	-95.441291	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169696	-95.441304	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169697	-95.441319	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169692	-95.441344	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169697	-95.441346	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169697	-95.441361	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169694	-95.441380	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169701	-95.441391	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.441400	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.441417	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169700	-95.441423	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169696	-95.441430	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169699	-95.441441	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169697	-95.441448	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169696	-95.441447	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.441448	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.441465	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169701	-95.441481	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169693	-95.441495	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169687	-95.441500	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169694	-95.441507	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169686	-95.441510	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169689	-95.441530	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.441548	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169715	-95.441557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169719	-95.441576	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169713	-95.441598	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169713	-95.441601	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.441610	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.441620	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.441632	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.441637	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.441646	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.441659	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.441670	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.441682	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.441692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.441703	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.441715	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.441728	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.441740	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.441751	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.441759	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.441771	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.441782	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.441794	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.441806	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.441818	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169701	-95.441830	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169700	-95.441844	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.441854	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.441864	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.441875	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.441888	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.441903	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.441913	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.441921	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.441931	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.441942	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.441950	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.441961	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169710	-95.441973	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.441985	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.442001	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.442011	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.442026	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169711	-95.442037	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.442047	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169713	-95.442058	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.442068	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.442079	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.442088	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.442098	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.442108	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169714	-95.442121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.442131	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.442141	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.442151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.442164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169712	-95.442176	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.442186	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.442196	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.442212	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.442223	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.442237	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.442249	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.442259	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.442280	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.442285	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.442296	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.442308	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.442318	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.442329	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169711	-95.442344	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169714	-95.442362	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169714	-95.442371	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169714	-95.442376	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.442374	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169713	-95.442378	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169716	-95.442397	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169716	-95.442405	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.442411	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.442424	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.442434	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169712	-95.442448	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.442460	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.442469	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.442485	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.442495	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.442500	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.442508	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.442521	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.442529	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.442536	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.442541	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169719	-95.442548	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169717	-95.442557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169715	-95.442568	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169718	-95.442578	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169716	-95.442589	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169713	-95.442601	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169712	-95.442611	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.442624	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.442638	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.442641	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.442651	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.442657	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.442671	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.442682	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.442692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.442704	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169704	-95.442711	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.442722	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169701	-95.442734	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169701	-95.442744	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.442754	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.442759	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169714	-95.442772	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.442782	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.442787	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169721	-95.442790	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169729	-95.442788	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169719	-95.442795	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.442806	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.442817	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169693	-95.442805	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169693	-95.442812	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169693	-95.442817	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169692	-95.442827	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169692	-95.442837	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169692	-95.442840	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169690	-95.442848	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169692	-95.442853	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169693	-95.442855	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169691	-95.442861	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169692	-95.442867	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169687	-95.442871	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169691	-95.442878	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169691	-95.442875	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169688	-95.442879	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169696	-95.442885	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169701	-95.442894	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.442907	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169712	-95.442923	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.442932	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.442946	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169704	-95.442959	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.442959	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169712	-95.442966	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169713	-95.442981	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169711	-95.442994	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169713	-95.443002	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169715	-95.443011	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169716	-95.443026	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169718	-95.443038	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169719	-95.443046	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169723	-95.443054	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169714	-95.443062	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.443082	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.443094	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.443106	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.443121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169713	-95.443135	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.443155	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.443167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.443177	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169712	-95.443185	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169722	-95.443195	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.443200	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.443210	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.443216	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.443221	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.443228	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443234	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443241	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443248	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.443254	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443257	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443260	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.443259	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.443267	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169706	-95.443275	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.443283	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.443293	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.443301	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.443311	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.443319	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.443327	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.443333	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.443340	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.443346	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.443350	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.443359	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.443363	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.443368	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.443374	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.443380	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.443387	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.443393	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169711	-95.443401	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169711	-95.443404	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.443408	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443413	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169711	-95.443419	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443421	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.443426	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443430	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443434	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443442	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169711	-95.443449	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443456	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443463	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443469	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443478	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443485	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.443491	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169710	-95.443499	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443506	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.443514	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443522	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443530	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443536	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169713	-95.443549	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169713	-95.443562	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169713	-95.443572	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.443579	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169701	-95.443583	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169693	-95.443593	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169694	-95.443597	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169698	-95.443605	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169701	-95.443605	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169700	-95.443613	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169700	-95.443624	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169690	-95.443630	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169685	-95.443640	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169701	-95.443648	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.443650	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.443660	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169712	-95.443663	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169718	-95.443667	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.443671	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.443680	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169696	-95.443698	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169695	-95.443697	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.443700	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.443709	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.443720	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169717	-95.443729	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169711	-95.443738	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.443745	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.443756	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169708	-95.443765	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.443775	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.443794	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169699	-95.443805	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169699	-95.443815	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.443827	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.443840	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169715	-95.443856	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169714	-95.443866	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169717	-95.443865	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169715	-95.443875	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169713	-95.443885	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169711	-95.443896	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.443908	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.443919	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.443926	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.443936	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169699	-95.443958	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169697	-95.443978	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169712	-95.443965	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169712	-95.443976	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169711	-95.443985	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169713	-95.443993	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169711	-95.444005	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169712	-95.444015	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169714	-95.444028	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169714	-95.444040	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169714	-95.444051	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169713	-95.444063	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169712	-95.444077	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169711	-95.444090	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169712	-95.444101	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169712	-95.444108	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169712	-95.444117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169711	-95.444125	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169713	-95.444138	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169712	-95.444149	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169713	-95.444161	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169721	-95.444175	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169716	-95.444182	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169716	-95.444194	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.444208	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.444218	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169718	-95.444229	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169719	-95.444234	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.444260	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169712	-95.444265	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.444277	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.444287	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.444302	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.444315	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.444323	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.444337	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169711	-95.444346	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169712	-95.444355	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169710	-95.444367	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.444394	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.444403	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.444411	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.444421	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.444431	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.444443	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.444452	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.444461	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.444464	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.444471	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.444476	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.444480	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.444486	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.444489	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169701	-95.444491	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169701	-95.444495	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.444500	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.444504	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169700	-95.444510	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169701	-95.444513	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169701	-95.444515	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.444519	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.444524	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.444529	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.444535	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.444537	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.444541	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.444545	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.444548	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.444550	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.444554	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.444557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.444559	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.444559	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.444570	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.444584	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.444595	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.444604	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.444611	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.444618	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.444628	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.444641	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.444650	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169706	-95.444661	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.444677	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.444687	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.444693	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.444700	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.444710	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169707	-95.444719	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169707	-95.444731	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.444740	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.444749	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.444759	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169699	-95.444770	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169697	-95.444783	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169698	-95.444796	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.444805	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169722	-95.444810	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169713	-95.444832	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169716	-95.444839	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169719	-95.444844	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169721	-95.444847	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169717	-95.444853	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169719	-95.444857	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169719	-95.444862	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169719	-95.444863	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169715	-95.444865	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169717	-95.444864	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169708	-95.444877	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169701	-95.444888	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169699	-95.444898	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.444910	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169699	-95.444918	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169696	-95.444930	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169697	-95.444941	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169697	-95.444952	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169696	-95.444967	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169694	-95.444979	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169687	-95.444993	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169688	-95.445006	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.445019	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169684	-95.445047	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169680	-95.445058	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169679	-95.445070	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.445061	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.445071	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.445082	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.445096	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.445109	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.445119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.445126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169705	-95.445133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169704	-95.445141	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.445152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.445164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169703	-95.445175	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169702	-95.445187	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169701	-95.445199	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169701	-95.445211	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169701	-95.445224	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169700	-95.445236	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169701	-95.445248	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169700	-95.445261	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169699	-95.445274	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169698	-95.445287	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169697	-95.445300	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169697	-95.445312	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169697	-95.445324	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169696	-95.445338	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169696	-95.445353	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169695	-95.445367	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169695	-95.445380	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169694	-95.445390	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169694	-95.445403	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169693	-95.445416	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169691	-95.445428	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169689	-95.445440	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169689	-95.445452	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169689	-95.445465	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169688	-95.445478	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169687	-95.445491	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169684	-95.445505	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.445517	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.445530	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.445542	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.445553	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.445566	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.445579	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169677	-95.445592	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.445606	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169680	-95.445617	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.445627	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.445636	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.445647	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.445656	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.445665	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.445670	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169685	-95.445674	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169691	-95.445677	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169699	-95.445680	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169717	-95.445690	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169727	-95.445683	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169736	-95.445683	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169747	-95.445686	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169755	-95.445684	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169759	-95.445682	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169766	-95.445682	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169776	-95.445682	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169786	-95.445684	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169794	-95.445685	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169806	-95.445686	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169817	-95.445686	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169829	-95.445688	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169838	-95.445689	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169849	-95.445689	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169859	-95.445689	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169868	-95.445691	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169875	-95.445692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169883	-95.445692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169889	-95.445692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169889	-95.445698	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169894	-95.445702	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169897	-95.445698	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169881	-95.445703	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169867	-95.445701	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169866	-95.445699	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169853	-95.445699	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169841	-95.445699	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169830	-95.445699	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169822	-95.445697	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169812	-95.445696	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169800	-95.445696	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169789	-95.445697	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169778	-95.445697	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169770	-95.445697	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169761	-95.445694	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169748	-95.445692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169738	-95.445694	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169734	-95.445694	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169733	-95.445694	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169731	-95.445693	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169728	-95.445693	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169726	-95.445693	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169724	-95.445693	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169717	-95.445693	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169717	-95.445694	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169713	-95.445693	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169709	-95.445692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169707	-95.445692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169701	-95.445691	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169693	-95.445689	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169687	-95.445689	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.445691	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.445697	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.445700	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.445705	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.445708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.445748	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.445762	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.445775	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.445789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.445797	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169664	-95.445810	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.445823	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.445832	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.445838	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.445835	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.445833	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.445835	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.445835	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.445841	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.445847	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.445854	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.445863	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.445870	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.445879	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.445889	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.445897	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.445906	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.445913	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.445920	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.445934	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.445943	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169674	-95.445953	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.445961	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.445972	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.445981	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.445993	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.446003	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.446015	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.446028	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.446038	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.446050	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.446059	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.446069	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.446080	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.446091	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.446099	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.446107	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.446116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.446121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.446124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.446130	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.446138	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.446145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.446152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.446157	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.446163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.446168	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.446173	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.446179	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.446185	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.446190	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.446198	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.446203	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.446212	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.446220	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.446228	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169680	-95.446236	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.446246	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.446253	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.446269	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169662	-95.446281	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169663	-95.446293	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169664	-95.446304	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.446311	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.446323	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.446332	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.446342	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169663	-95.446359	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.446367	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.446379	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.446391	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.446404	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.446417	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.446430	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.446441	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.446453	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.446466	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.446480	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.446492	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.446503	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.446513	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.446527	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.446540	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169680	-95.446552	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.446563	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.446575	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.446588	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.446600	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.446612	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.446624	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.446641	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169674	-95.446654	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.446662	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.446675	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.446682	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.446687	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.446699	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.446711	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.446720	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.446728	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.446748	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.446766	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.446781	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.446789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.446790	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.446797	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.446808	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.446818	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.446829	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.446841	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.446853	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.446867	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169680	-95.446882	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169688	-95.446890	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169694	-95.446896	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169695	-95.446904	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169698	-95.446907	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169698	-95.446914	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169699	-95.446915	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169700	-95.446925	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169695	-95.446932	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169689	-95.446934	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.446943	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.446958	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.446966	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.446978	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169665	-95.446997	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.447011	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.447024	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169664	-95.447025	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.447041	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.447049	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.447061	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.447073	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.447095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169664	-95.447107	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169662	-95.447122	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169664	-95.447133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.447141	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.447151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.447161	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169663	-95.447172	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.447185	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.447195	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.447196	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.447202	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.447201	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169655	-95.447206	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.447214	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.447220	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.447231	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.447236	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.447242	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.447249	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.447254	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.447265	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.447274	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.447284	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.447289	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169682	-95.447297	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.447306	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169681	-95.447312	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169680	-95.447322	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.447327	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169680	-95.447330	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.447342	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169680	-95.447352	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.447362	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169664	-95.447375	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.447387	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.447395	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.447412	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169664	-95.447423	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.447435	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.447447	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169664	-95.447460	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169664	-95.447466	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.447474	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169663	-95.447484	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.447503	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.447522	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.447535	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.447540	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.447554	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169685	-95.447562	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169685	-95.447573	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169687	-95.447577	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169693	-95.447581	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169693	-95.447578	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169691	-95.447592	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.447590	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.447587	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169680	-95.447584	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.447585	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.447599	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.447615	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169681	-95.447634	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169680	-95.447649	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169685	-95.447659	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169686	-95.447666	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169683	-95.447680	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169691	-95.447693	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169686	-95.447702	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169694	-95.447719	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.447734	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169682	-95.447742	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169680	-95.447766	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169693	-95.447768	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169689	-95.447785	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169692	-95.447798	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169682	-95.447788	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169693	-95.447789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169692	-95.447790	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169685	-95.447792	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.447800	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.447802	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.447803	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.447803	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.447800	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.447800	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.447847	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.447846	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.447847	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.447847	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.447853	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.447859	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.447865	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.447874	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.447881	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.447886	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.447890	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169668	-95.447898	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.447897	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.447897	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169663	-95.447898	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169660	-95.447892	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.447892	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.447891	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.447892	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169546	-95.447936	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169550	-95.447933	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169558	-95.447931	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169571	-95.447938	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169578	-95.447933	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169582	-95.447931	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169580	-95.447919	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169574	-95.447914	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169573	-95.447911	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169537	-95.449336	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169537	-95.449336	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169538	-95.449336	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169538	-95.449336	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169481	-95.449649	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169481	-95.449648	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169481	-95.449648	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169480	-95.449647	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169477	-95.449647	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169476	-95.449648	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169477	-95.449648	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169476	-95.449648	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169476	-95.449647	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169476	-95.449648	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169477	-95.449649	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169477	-95.449649	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169477	-95.449647	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169467	-95.449696	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169467	-95.449697	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169467	-95.449697	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169467	-95.449697	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169467	-95.449697	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169430	-95.449935	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169431	-95.449935	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169431	-95.449935	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169431	-95.449935	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169431	-95.449935	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169431	-95.449935	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169431	-95.449934	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169431	-95.449935	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169431	-95.449934	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169419	-95.450451	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169420	-95.450451	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169419	-95.450451	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169417	-95.450451	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169411	-95.450453	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169406	-95.450453	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169401	-95.450453	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169399	-95.450451	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169398	-95.450451	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169397	-95.450450	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169421	-95.449938	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169421	-95.449938	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169421	-95.449939	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169410	-95.449937	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169410	-95.449937	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169409	-95.449937	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169446	-95.449693	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169446	-95.449692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169446	-95.449691	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169446	-95.449691	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169446	-95.449691	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169446	-95.449691	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169498	-95.449313	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169498	-95.449312	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169498	-95.449312	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169498	-95.449312	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169498	-95.449313	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169499	-95.449313	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169499	-95.449313	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169501	-95.449316	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169625	-95.447879	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169626	-95.447879	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169625	-95.447878	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169624	-95.447876	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169623	-95.447875	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169623	-95.447872	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169620	-95.447863	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169617	-95.447861	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169617	-95.447859	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169611	-95.447808	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169610	-95.447807	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169610	-95.447806	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169614	-95.447801	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169615	-95.447794	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169614	-95.447792	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169621	-95.447787	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169624	-95.447786	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169629	-95.447788	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169629	-95.447788	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169633	-95.447791	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.447778	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169626	-95.447775	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169626	-95.447770	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169628	-95.447763	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169632	-95.447755	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169628	-95.447750	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169629	-95.447742	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169628	-95.447738	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169627	-95.447734	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169629	-95.447730	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169632	-95.447725	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169633	-95.447718	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169632	-95.447712	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169628	-95.447707	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.447695	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169633	-95.447684	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169631	-95.447672	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169630	-95.447665	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169632	-95.447648	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169627	-95.447646	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169627	-95.447642	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169631	-95.447633	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169631	-95.447624	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.447613	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.447601	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169640	-95.447590	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169639	-95.447580	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169642	-95.447572	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.447557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.447550	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169631	-95.447533	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169629	-95.447522	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169631	-95.447515	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.447509	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.447499	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.447488	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169632	-95.447479	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.447468	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.447455	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.447445	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.447436	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.447427	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169635	-95.447420	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.447411	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.447402	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.447391	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.447381	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169641	-95.447371	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169641	-95.447361	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169648	-95.447352	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169645	-95.447339	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169640	-95.447331	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169640	-95.447322	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169640	-95.447314	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169641	-95.447303	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169641	-95.447293	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169646	-95.447280	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169643	-95.447268	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169640	-95.447257	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169638	-95.447246	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169638	-95.447231	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.447223	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169640	-95.447210	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169643	-95.447194	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169643	-95.447184	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169649	-95.447175	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169648	-95.447159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169644	-95.447148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169642	-95.447146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169640	-95.447137	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169642	-95.447128	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169645	-95.447114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.447093	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.447081	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.447069	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.447055	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.447043	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169639	-95.447032	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169639	-95.447023	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169643	-95.447015	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169642	-95.447005	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169643	-95.446992	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169643	-95.446982	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169644	-95.446973	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169645	-95.446961	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169646	-95.446952	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169647	-95.446939	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169648	-95.446927	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169646	-95.446917	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169641	-95.446913	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169651	-95.446904	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169648	-95.446895	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169648	-95.446887	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169648	-95.446883	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169647	-95.446874	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169654	-95.446870	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169660	-95.446855	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169651	-95.446848	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446843	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169642	-95.446837	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169647	-95.446827	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169644	-95.446818	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169643	-95.446803	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169641	-95.446795	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169638	-95.446789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169638	-95.446782	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.446772	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446773	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446773	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169635	-95.446774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169633	-95.446773	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169631	-95.446768	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169632	-95.446759	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.446751	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446744	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446734	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.446725	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.446716	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.446706	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.446695	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169638	-95.446685	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.446674	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.446665	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446654	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446645	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446635	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446627	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446617	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446606	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446595	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446585	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446575	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446565	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.446554	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.446543	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.446531	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446519	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.446508	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.446497	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.446487	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.446475	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169634	-95.446464	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169633	-95.446452	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169632	-95.446440	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169632	-95.446428	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169632	-95.446415	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169632	-95.446402	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169633	-95.446390	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169633	-95.446377	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169632	-95.446365	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169632	-95.446353	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169633	-95.446340	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.446326	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.446312	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.446301	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169633	-95.446289	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.446277	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.446267	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.446255	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.446243	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.446233	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169639	-95.446223	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169638	-95.446218	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.446208	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169638	-95.446197	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.446184	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.446173	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.446162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.446151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.446140	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169638	-95.446129	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169639	-95.446116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169639	-95.446102	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169638	-95.446087	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.446075	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169638	-95.446063	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169638	-95.446049	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.446036	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.446022	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.446008	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.445995	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.445981	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.445968	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169633	-95.445955	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169633	-95.445943	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.445928	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.445915	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.445902	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.445889	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.445876	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.445862	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.445850	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.445837	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.445824	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.445642	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169664	-95.445477	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.445451	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.445438	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.445426	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.445417	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.445403	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.445394	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.445383	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.445370	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.445359	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.445348	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.445337	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.445327	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.445267	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.445254	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.445240	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169674	-95.445228	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.445215	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.445204	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.445190	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.445178	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.445167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.445155	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.445143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.445130	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.445118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.445108	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.445096	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.445083	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.445056	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.445047	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.445035	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.445023	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.445012	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.445002	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.444959	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.444946	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.444924	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.444914	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.444909	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169677	-95.444902	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.444894	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.444889	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.444885	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169660	-95.444879	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169657	-95.444873	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169654	-95.444865	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169652	-95.444856	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169653	-95.444844	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169653	-95.444837	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169655	-95.444830	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169658	-95.444825	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169660	-95.444819	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.444813	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169664	-95.444805	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.444800	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.444795	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.444790	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.444777	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.444772	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169677	-95.444762	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.444747	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.444717	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169677	-95.444706	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.444696	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169677	-95.444683	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.444678	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.444665	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169680	-95.444650	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.444638	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169680	-95.444626	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.444614	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.444605	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169677	-95.444602	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.444602	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.444607	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.444607	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.444604	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169680	-95.444595	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169677	-95.444585	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169677	-95.444573	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169677	-95.444562	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.444550	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.444537	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.444525	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.444514	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169677	-95.444502	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.444489	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.444479	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.444469	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.444458	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169677	-95.444450	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.444398	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169677	-95.444371	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.444300	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169677	-95.444292	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.444284	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.444273	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.444263	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.444254	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.444251	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.444233	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169685	-95.444218	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169690	-95.444207	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169691	-95.444185	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169689	-95.444175	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169689	-95.444165	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169684	-95.444140	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169685	-95.444130	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169683	-95.444121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169685	-95.444087	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.444077	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.444067	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.444059	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.444045	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.444037	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.444033	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.444027	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.444012	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.444008	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.444002	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169675	-95.443996	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.443989	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.443985	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.443983	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.443984	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.443984	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.443977	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.443969	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.443962	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.443950	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.443936	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.443923	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.443908	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.443896	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.443885	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.443875	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.443863	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.443853	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.443843	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.443833	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.443823	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.443813	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.443804	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.443793	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.443781	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.443769	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.443756	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.443742	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.443730	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.443718	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.443705	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.443694	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.443684	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.443677	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.443665	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169670	-95.443653	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.443643	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.443632	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.443620	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.443610	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.443600	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.443589	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.443577	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.443565	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.443557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.443550	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.443541	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.443532	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.443522	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.443514	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.443502	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.443491	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.443481	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.443453	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.443443	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.443432	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169663	-95.443423	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169663	-95.443412	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169663	-95.443403	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169662	-95.443392	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.443378	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169662	-95.443366	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.443354	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169660	-95.443343	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169659	-95.443330	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169657	-95.443321	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169657	-95.443310	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169657	-95.443299	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169657	-95.443288	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169657	-95.443277	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169658	-95.443268	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169658	-95.443261	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169657	-95.443260	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169656	-95.443263	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169657	-95.443264	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169657	-95.443264	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169659	-95.443263	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169659	-95.443263	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169659	-95.443263	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169657	-95.443260	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169657	-95.443254	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169659	-95.443247	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169660	-95.443237	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.443227	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.443221	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169662	-95.443214	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169662	-95.443210	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.443205	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.443204	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169662	-95.443199	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169662	-95.443193	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169663	-95.443184	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169662	-95.443176	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169662	-95.443169	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.443161	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.443153	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.443144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169660	-95.443135	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.443127	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169660	-95.443117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169660	-95.443111	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169657	-95.443106	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169659	-95.443106	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169659	-95.443100	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169658	-95.443093	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169661	-95.443101	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169640	-95.443095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169638	-95.443091	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.443093	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169642	-95.443084	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.443085	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169645	-95.443076	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169641	-95.443066	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169643	-95.443069	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169638	-95.443055	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169645	-95.443054	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169640	-95.443054	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.443041	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169628	-95.443042	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.443034	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.443037	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169639	-95.443026	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169639	-95.443020	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.443021	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169645	-95.443002	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169649	-95.442998	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169647	-95.442992	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169648	-95.442985	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169648	-95.442978	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169648	-95.442974	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169658	-95.442965	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169658	-95.442960	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169656	-95.442954	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169656	-95.442950	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169648	-95.442963	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169651	-95.442956	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169646	-95.442951	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169654	-95.442943	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169658	-95.442938	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.442932	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169657	-95.442922	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169657	-95.442919	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169651	-95.442912	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169654	-95.442911	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169656	-95.442904	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169658	-95.442906	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.442891	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169659	-95.442881	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169655	-95.442882	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169649	-95.442881	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169648	-95.442880	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169652	-95.442866	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169652	-95.442860	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169650	-95.442847	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169650	-95.442840	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169644	-95.442833	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169642	-95.442822	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169641	-95.442812	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169647	-95.442800	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169646	-95.442790	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169644	-95.442781	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169637	-95.442777	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169635	-95.442768	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169636	-95.442762	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169644	-95.442748	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169646	-95.442738	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169649	-95.442730	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169651	-95.442716	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169647	-95.442707	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169650	-95.442702	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169655	-95.442694	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169660	-95.442684	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.442677	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169663	-95.442677	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169659	-95.442666	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169664	-95.442660	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.442650	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169663	-95.442643	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169651	-95.442638	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169651	-95.442634	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169653	-95.442619	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169655	-95.442615	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169653	-95.442599	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169658	-95.442589	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169655	-95.442585	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169649	-95.442575	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169653	-95.442566	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169654	-95.442560	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169653	-95.442557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169652	-95.442550	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169653	-95.442549	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169653	-95.442547	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169654	-95.442545	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169655	-95.442545	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169655	-95.442543	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169655	-95.442543	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169656	-95.442540	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169655	-95.442534	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169653	-95.442532	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169653	-95.442528	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169653	-95.442525	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169656	-95.442519	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169655	-95.442516	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169654	-95.442516	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169655	-95.442506	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169653	-95.442497	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169650	-95.442495	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169651	-95.442490	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169652	-95.442485	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169654	-95.442475	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169659	-95.442463	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169662	-95.442451	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.442439	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.442433	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169677	-95.442417	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.442414	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169683	-95.442405	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169683	-95.442399	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169689	-95.442396	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169691	-95.442393	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169697	-95.442389	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169682	-95.442382	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169679	-95.442380	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.442375	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.442366	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.442360	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.442351	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.442340	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.442337	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.442324	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169662	-95.442314	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.442306	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.442296	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.442289	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.442285	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.442275	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.442270	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.442266	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.442246	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.442232	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.442230	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.442215	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169664	-95.442208	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169659	-95.442203	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.442196	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169676	-95.442192	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169691	-95.442184	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169682	-95.442186	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169687	-95.442180	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169697	-95.442181	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169689	-95.442179	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169686	-95.442182	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169685	-95.442179	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169680	-95.442170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169680	-95.442151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169680	-95.442146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.442149	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.442146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.442143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.442140	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.442134	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169682	-95.442130	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.442124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.442129	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169662	-95.442132	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169662	-95.442123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.442117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.442109	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.442105	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169644	-95.442101	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169651	-95.442085	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169654	-95.442072	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.442057	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169661	-95.442049	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.442027	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.442014	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.442009	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.441987	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.441973	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.441972	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169674	-95.441963	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169663	-95.441965	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.441948	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.441934	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.441923	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.441909	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.441903	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.441891	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.441877	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.441870	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.441851	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.441841	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169669	-95.441825	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169664	-95.441825	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.441812	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169684	-95.441801	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169686	-95.441784	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169690	-95.441769	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169681	-95.441756	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.441742	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.441734	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.441729	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.441720	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.441709	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.441701	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.441693	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.441685	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.441675	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.441664	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.441653	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.441643	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.441632	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.441622	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.441609	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.441596	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169679	-95.441580	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169678	-95.441569	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.441559	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.441551	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169674	-95.441547	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169676	-95.441538	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169675	-95.441532	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.441530	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.441524	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.441520	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.441513	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.441503	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169672	-95.441493	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.441484	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169673	-95.441471	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.441466	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.441456	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169671	-95.441448	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169670	-95.441437	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.441424	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169668	-95.441410	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169667	-95.441401	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169666	-95.441392	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169665	-95.441379	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169662	-95.441368	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169662	-95.441350	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169658	-95.441337	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169656	-95.441323	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169653	-95.441310	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169649	-95.441305	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169648	-95.441291	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169644	-95.441278	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169634	-95.441269	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169628	-95.441260	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169623	-95.441252	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169620	-95.441246	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169612	-95.441236	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169607	-95.441233	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169606	-95.441232	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169605	-95.441231	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169595	-95.441221	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169588	-95.441215	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169580	-95.441208	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169571	-95.441200	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169561	-95.441193	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169550	-95.441188	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169540	-95.441184	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169530	-95.441180	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169518	-95.441174	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169509	-95.441171	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169500	-95.441168	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169492	-95.441165	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169482	-95.441162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169471	-95.441158	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169459	-95.441156	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169449	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169439	-95.441153	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169430	-95.441155	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169420	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169410	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169399	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169389	-95.441156	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169380	-95.441156	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169372	-95.441156	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169363	-95.441157	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169354	-95.441158	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169344	-95.441158	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169335	-95.441159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169325	-95.441159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169316	-95.441161	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169306	-95.441161	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169295	-95.441158	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169284	-95.441159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169274	-95.441162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169261	-95.441163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169254	-95.441161	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169244	-95.441163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169236	-95.441164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169224	-95.441162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169222	-95.441159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169208	-95.441158	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169195	-95.441157	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169184	-95.441167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169173	-95.441170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169167	-95.441170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169152	-95.441167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169140	-95.441170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169134	-95.441179	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169122	-95.441178	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169114	-95.441178	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169110	-95.441178	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169102	-95.441176	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169093	-95.441178	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169086	-95.441174	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169085	-95.441169	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169080	-95.441169	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169078	-95.441165	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169074	-95.441164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169073	-95.441163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169070	-95.441162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169061	-95.441161	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169063	-95.441158	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169060	-95.441164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169066	-95.441153	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169062	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.169057	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169051	-95.441159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169049	-95.441175	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169035	-95.441170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169016	-95.441172	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.169000	-95.441169	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168986	-95.441171	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168982	-95.441168	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168971	-95.441166	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168959	-95.441167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168947	-95.441167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168935	-95.441167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168925	-95.441166	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168915	-95.441168	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168907	-95.441169	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168901	-95.441165	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168889	-95.441172	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168884	-95.441172	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168884	-95.441174	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168879	-95.441159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168878	-95.441159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168873	-95.441161	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168869	-95.441162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168864	-95.441172	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168868	-95.441175	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168869	-95.441177	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168860	-95.441173	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168861	-95.441181	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168864	-95.441184	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168857	-95.441175	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168849	-95.441181	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168848	-95.441177	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168842	-95.441171	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168837	-95.441167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168830	-95.441173	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.168822	-95.441163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168820	-95.441162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168814	-95.441162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168809	-95.441163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168805	-95.441162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168796	-95.441163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168789	-95.441163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168780	-95.441163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168772	-95.441162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168760	-95.441148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168747	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168742	-95.441158	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168736	-95.441158	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168722	-95.441148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168714	-95.441149	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168699	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168692	-95.441139	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168680	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168671	-95.441138	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168652	-95.441151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168654	-95.441160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168645	-95.441161	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168635	-95.441160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168626	-95.441159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168616	-95.441159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168606	-95.441160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168595	-95.441161	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168587	-95.441160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168578	-95.441160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168573	-95.441159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168562	-95.441173	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168550	-95.441170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168537	-95.441171	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168536	-95.441166	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168529	-95.441170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.168519	-95.441169	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168512	-95.441170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168505	-95.441170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168499	-95.441171	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168492	-95.441172	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168485	-95.441172	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168478	-95.441164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168471	-95.441164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168464	-95.441163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168458	-95.441163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168451	-95.441163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168444	-95.441164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168437	-95.441163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168430	-95.441160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168422	-95.441160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168414	-95.441159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168405	-95.441160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168397	-95.441161	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168389	-95.441161	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168381	-95.441161	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168374	-95.441162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168366	-95.441163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168360	-95.441164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168359	-95.441164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168360	-95.441163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168362	-95.441163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168362	-95.441162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168362	-95.441163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168362	-95.441163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168359	-95.441163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168355	-95.441162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168349	-95.441162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168342	-95.441162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168337	-95.441160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168332	-95.441160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.168321	-95.441164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168304	-95.441172	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168296	-95.441170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168300	-95.441167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168297	-95.441173	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168302	-95.441161	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168297	-95.441160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168290	-95.441164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168294	-95.441169	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168280	-95.441161	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168278	-95.441167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168267	-95.441166	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168262	-95.441165	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168253	-95.441164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168253	-95.441162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168243	-95.441169	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168237	-95.441169	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168227	-95.441174	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168213	-95.441181	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168200	-95.441186	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168192	-95.441190	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168184	-95.441190	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168179	-95.441188	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168168	-95.441185	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168164	-95.441188	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168159	-95.441179	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168145	-95.441173	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168136	-95.441177	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168128	-95.441183	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168115	-95.441189	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168111	-95.441188	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168103	-95.441192	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168095	-95.441181	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168095	-95.441170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168087	-95.441171	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.168088	-95.441168	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168076	-95.441171	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168069	-95.441177	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168061	-95.441172	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168067	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168058	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168051	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168046	-95.441151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168039	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168033	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168026	-95.441152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168018	-95.441152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168012	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.168005	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167997	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167990	-95.441152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167983	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167974	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167966	-95.441151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167958	-95.441151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167951	-95.441152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167942	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167933	-95.441148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167926	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167921	-95.441149	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167914	-95.441151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167905	-95.441151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167898	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167893	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167890	-95.441152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167885	-95.441165	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167879	-95.441167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167878	-95.441158	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167857	-95.441181	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167854	-95.441173	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.167855	-95.441170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167842	-95.441191	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167850	-95.441185	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167849	-95.441177	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167844	-95.441170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167841	-95.441171	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167838	-95.441176	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167839	-95.441177	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167834	-95.441171	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167829	-95.441173	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167834	-95.441164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167817	-95.441151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167807	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167797	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167792	-95.441140	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167794	-95.441149	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167786	-95.441149	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167778	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167775	-95.441158	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167781	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167780	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167771	-95.441152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167764	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167765	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167758	-95.441152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167754	-95.441156	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167740	-95.441171	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167734	-95.441164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167723	-95.441173	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167730	-95.441153	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167729	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167724	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167719	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167716	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167710	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.167703	-95.441158	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167707	-95.441171	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167708	-95.441165	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167701	-95.441158	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167704	-95.441155	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167700	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167697	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167692	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167687	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167685	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167682	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167675	-95.441144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167670	-95.441144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167666	-95.441144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167663	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167660	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167657	-95.441144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167654	-95.441144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167651	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167644	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167641	-95.441144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167638	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167634	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167629	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167624	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167619	-95.441144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167616	-95.441144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167612	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167609	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167605	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167599	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167594	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167589	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167583	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167578	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.167572	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167565	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167560	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167555	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167548	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167542	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167533	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167528	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167523	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167519	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167515	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167510	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167503	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167497	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167492	-95.441148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167485	-95.441148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167477	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167469	-95.441152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167460	-95.441153	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167451	-95.441153	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167442	-95.441153	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167434	-95.441153	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167425	-95.441151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167417	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167408	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167397	-95.441140	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167394	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167382	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167374	-95.441153	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167365	-95.441152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167356	-95.441151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167346	-95.441148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167335	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167325	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167301	-95.441148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.167283	-95.441149	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167273	-95.441148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167262	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167253	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167242	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167232	-95.441148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167222	-95.441148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167211	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167201	-95.441148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167190	-95.441148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167179	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167168	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167156	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167145	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167133	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167122	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167114	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167103	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167092	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167081	-95.441142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167068	-95.441139	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167058	-95.441139	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167047	-95.441139	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167035	-95.441136	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167023	-95.441136	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.167010	-95.441138	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166999	-95.441139	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166987	-95.441141	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166976	-95.441141	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166964	-95.441142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166953	-95.441142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166941	-95.441142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166931	-95.441142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166921	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166910	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.166900	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166889	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166877	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166865	-95.441144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166855	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166843	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166827	-95.441144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166818	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166806	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166792	-95.441144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166779	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166766	-95.441144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166755	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166744	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166732	-95.441145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166721	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166710	-95.441155	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166696	-95.441157	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166683	-95.441159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166671	-95.441159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166662	-95.441158	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166652	-95.441159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166658	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166656	-95.441152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166656	-95.441151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166655	-95.441152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166656	-95.441152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166653	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166649	-95.441151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166645	-95.441151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166645	-95.441149	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166645	-95.441157	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166639	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166617	-95.441153	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166608	-95.441152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.166596	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166586	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166574	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166562	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166551	-95.441166	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166535	-95.441156	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166528	-95.441153	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166528	-95.441152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166528	-95.441153	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166525	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166525	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166525	-95.441155	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166525	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166522	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166517	-95.441154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166515	-95.441153	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166506	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166495	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166485	-95.441144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166474	-95.441143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166462	-95.441144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166451	-95.441144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166439	-95.441144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166429	-95.441144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166419	-95.441142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166409	-95.441142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166398	-95.441142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166389	-95.441140	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166380	-95.441138	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166373	-95.441133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166360	-95.441132	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166343	-95.441125	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166340	-95.441124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166340	-95.441125	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166341	-95.441118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.166344	-95.441132	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166344	-95.441133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166335	-95.441133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166328	-95.441134	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166323	-95.441136	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166316	-95.441138	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166309	-95.441142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166303	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166297	-95.441148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166291	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166288	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166283	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166276	-95.441149	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166268	-95.441149	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166261	-95.441149	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166254	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166245	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166237	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166230	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166225	-95.441150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166222	-95.441148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166219	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166214	-95.441149	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166213	-95.441149	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166210	-95.441149	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166208	-95.441149	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166204	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166197	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166188	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166179	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166166	-95.441146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166155	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166144	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166136	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166130	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.166125	-95.441147	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166090	-95.441134	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166088	-95.441134	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166084	-95.441134	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166079	-95.441133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166077	-95.441133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166076	-95.441133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166074	-95.441134	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166072	-95.441133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166069	-95.441130	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166066	-95.441131	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166061	-95.441131	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166054	-95.441131	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166048	-95.441129	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166039	-95.441127	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166028	-95.441124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166018	-95.441119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.166008	-95.441113	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165998	-95.441107	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165988	-95.441102	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165978	-95.441096	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165970	-95.441089	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165961	-95.441082	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165950	-95.441074	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165941	-95.441066	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165932	-95.441058	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165922	-95.441050	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165913	-95.441041	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165903	-95.441032	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165894	-95.441022	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165887	-95.441012	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165878	-95.441002	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165870	-95.440991	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165862	-95.440981	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165854	-95.440970	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.165846	-95.440959	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165839	-95.440951	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165832	-95.440939	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165826	-95.440927	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165820	-95.440918	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165814	-95.440908	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165808	-95.440905	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165803	-95.440907	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165802	-95.440909	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165801	-95.440913	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165801	-95.440914	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165800	-95.440907	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165800	-95.440886	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165803	-95.440877	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165801	-95.440865	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165798	-95.440852	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165796	-95.440842	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165795	-95.440829	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165792	-95.440816	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165771	-95.440584	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165770	-95.440572	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165767	-95.440535	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165766	-95.440522	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165766	-95.440510	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165767	-95.440501	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165766	-95.440490	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165765	-95.440478	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165763	-95.440467	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165763	-95.440484	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165758	-95.440482	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165764	-95.440505	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165795	-95.440257	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165796	-95.440267	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165797	-95.440267	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165796	-95.440268	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.165796	-95.440268	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165795	-95.440268	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165796	-95.440267	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165796	-95.440267	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165796	-95.440267	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165796	-95.440267	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165795	-95.440267	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165795	-95.440267	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165795	-95.440267	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165795	-95.440267	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165795	-95.440266	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165795	-95.440267	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165794	-95.440268	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165793	-95.440269	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165791	-95.440270	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165790	-95.440270	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165798	-95.440268	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165799	-95.440257	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165802	-95.440242	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165806	-95.440230	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165810	-95.440218	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165811	-95.440210	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165815	-95.440199	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165818	-95.440187	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165821	-95.440176	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165824	-95.440165	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165826	-95.440153	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165829	-95.440142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165832	-95.440131	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165836	-95.440119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165840	-95.440108	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165844	-95.440096	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165850	-95.440087	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165857	-95.440079	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165861	-95.440071	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.165866	-95.440060	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165867	-95.440051	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165868	-95.440041	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165869	-95.440033	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165868	-95.440026	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165867	-95.440014	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165864	-95.440008	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165865	-95.439999	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165867	-95.439988	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165867	-95.439979	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165866	-95.439971	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165866	-95.439960	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165869	-95.439948	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165866	-95.439939	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165866	-95.439932	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165863	-95.439930	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165862	-95.439918	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165864	-95.439905	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165863	-95.439895	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165864	-95.439885	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165865	-95.439875	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165865	-95.439862	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165870	-95.439850	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165868	-95.439841	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165873	-95.439838	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165873	-95.439824	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165877	-95.439817	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165884	-95.439806	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165891	-95.439795	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165888	-95.439793	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165890	-95.439775	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165891	-95.439772	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165889	-95.439761	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165892	-95.439749	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165891	-95.439742	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.165887	-95.439725	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165886	-95.439711	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165883	-95.439705	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165872	-95.439693	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165868	-95.439682	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165857	-95.439676	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165849	-95.439671	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165845	-95.439663	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165831	-95.439656	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165822	-95.439653	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165816	-95.439660	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165806	-95.439660	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165807	-95.439665	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165802	-95.439664	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165801	-95.439657	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165799	-95.439657	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165801	-95.439660	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165801	-95.439661	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165803	-95.439661	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165807	-95.439657	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165803	-95.439654	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165625	-95.439662	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165671	-95.439664	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165659	-95.439670	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165647	-95.439660	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165610	-95.439624	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165604	-95.439620	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165598	-95.439612	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165592	-95.439606	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165580	-95.439607	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165574	-95.439611	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165575	-95.439607	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165575	-95.439607	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165575	-95.439606	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165574	-95.439606	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.165574	-95.439607	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165572	-95.439612	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165569	-95.439621	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165564	-95.439625	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165558	-95.439626	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165550	-95.439623	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165539	-95.439622	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165528	-95.439624	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165520	-95.439623	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165514	-95.439623	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165506	-95.439622	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165498	-95.439620	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165492	-95.439618	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165482	-95.439615	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165475	-95.439614	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165469	-95.439613	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165460	-95.439613	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165451	-95.439614	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165443	-95.439615	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165434	-95.439616	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165425	-95.439616	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165417	-95.439615	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165409	-95.439614	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165398	-95.439613	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165390	-95.439613	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165382	-95.439614	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165373	-95.439612	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165364	-95.439612	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165355	-95.439610	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165348	-95.439611	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165340	-95.439610	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165331	-95.439610	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165322	-95.439610	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165314	-95.439609	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165304	-95.439608	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.165294	-95.439608	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165285	-95.439608	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165275	-95.439606	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165265	-95.439604	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165256	-95.439599	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165246	-95.439595	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165236	-95.439597	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165227	-95.439599	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165218	-95.439601	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165210	-95.439604	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165201	-95.439605	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165186	-95.439605	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165177	-95.439603	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165172	-95.439605	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165165	-95.439605	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165157	-95.439605	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165149	-95.439604	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165142	-95.439601	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165139	-95.439603	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165135	-95.439604	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165127	-95.439595	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165125	-95.439604	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165125	-95.439596	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165120	-95.439597	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165115	-95.439597	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165113	-95.439597	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165109	-95.439598	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165105	-95.439598	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165102	-95.439598	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165098	-95.439601	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165096	-95.439600	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165091	-95.439602	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165087	-95.439605	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165087	-95.439604	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165080	-95.439622	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.165077	-95.439621	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165076	-95.439610	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165074	-95.439608	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165071	-95.439614	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165067	-95.439607	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165065	-95.439605	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165070	-95.439601	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165066	-95.439598	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165063	-95.439597	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165059	-95.439601	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165058	-95.439597	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165058	-95.439595	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165055	-95.439594	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165054	-95.439588	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165057	-95.439581	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165057	-95.439577	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165053	-95.439575	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165051	-95.439575	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165048	-95.439575	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165045	-95.439574	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165041	-95.439571	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165041	-95.439571	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165038	-95.439573	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165033	-95.439573	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165027	-95.439570	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165016	-95.439567	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165008	-95.439565	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.165001	-95.439563	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164992	-95.439561	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164985	-95.439558	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164984	-95.439548	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164978	-95.439544	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164968	-95.439536	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164944	-95.439535	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164936	-95.439529	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.164921	-95.439526	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164913	-95.439528	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164907	-95.439524	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164902	-95.439517	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164892	-95.439515	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164885	-95.439504	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164872	-95.439501	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164867	-95.439499	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164862	-95.439497	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164854	-95.439489	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164847	-95.439482	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164843	-95.439483	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164838	-95.439479	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164836	-95.439474	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164834	-95.439473	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164833	-95.439470	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164825	-95.439469	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164817	-95.439466	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164813	-95.439464	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164805	-95.439460	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164799	-95.439464	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164801	-95.439464	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164790	-95.439462	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164788	-95.439458	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164779	-95.439454	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164771	-95.439448	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164764	-95.439442	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164756	-95.439437	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164752	-95.439433	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164742	-95.439427	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164736	-95.439421	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164731	-95.439416	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164726	-95.439415	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164720	-95.439412	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164711	-95.439407	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.164713	-95.439406	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164710	-95.439404	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164706	-95.439401	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164703	-95.439400	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164700	-95.439398	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164698	-95.439397	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164695	-95.439394	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164693	-95.439394	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164691	-95.439393	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164690	-95.439394	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164687	-95.439392	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164684	-95.439386	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164681	-95.439384	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164677	-95.439382	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164673	-95.439380	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164669	-95.439378	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164665	-95.439377	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164661	-95.439375	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164659	-95.439374	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164656	-95.439370	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164652	-95.439368	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164649	-95.439367	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164647	-95.439366	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164646	-95.439363	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164643	-95.439362	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164641	-95.439356	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164637	-95.439355	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164632	-95.439355	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164629	-95.439351	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164627	-95.439350	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164624	-95.439351	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164621	-95.439351	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164621	-95.439351	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164622	-95.439353	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164614	-95.439357	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.164607	-95.439344	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164612	-95.439343	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164613	-95.439344	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164611	-95.439344	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164599	-95.439338	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164594	-95.439332	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164588	-95.439328	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164582	-95.439325	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164576	-95.439322	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164569	-95.439318	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164563	-95.439314	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164558	-95.439309	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164552	-95.439306	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164546	-95.439303	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164543	-95.439300	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164537	-95.439296	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164530	-95.439291	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164523	-95.439285	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164514	-95.439278	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164502	-95.439273	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164494	-95.439266	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164486	-95.439261	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164472	-95.439253	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164461	-95.439246	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164453	-95.439242	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164444	-95.439237	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164434	-95.439230	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164425	-95.439227	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164417	-95.439222	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164408	-95.439218	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164398	-95.439215	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164388	-95.439210	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164381	-95.439206	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164377	-95.439201	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164369	-95.439197	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.164365	-95.439194	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164364	-95.439195	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164361	-95.439194	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164354	-95.439190	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164348	-95.439188	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164344	-95.439187	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164339	-95.439186	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164339	-95.439186	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164336	-95.439184	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164333	-95.439183	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164328	-95.439181	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164325	-95.439181	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164322	-95.439179	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164320	-95.439178	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164319	-95.439178	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164316	-95.439177	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164314	-95.439177	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164311	-95.439176	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164309	-95.439175	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164307	-95.439175	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164304	-95.439174	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164302	-95.439175	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164305	-95.439173	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164301	-95.439172	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164297	-95.439169	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164288	-95.439169	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164282	-95.439166	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164277	-95.439163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164271	-95.439158	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164262	-95.439155	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164253	-95.439153	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164245	-95.439148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164235	-95.439145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164227	-95.439141	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164220	-95.439136	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.164211	-95.439131	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164202	-95.439126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164195	-95.439123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164188	-95.439120	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164181	-95.439116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164178	-95.439114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164175	-95.439110	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164168	-95.439107	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164162	-95.439103	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164157	-95.439100	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164151	-95.439097	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164146	-95.439093	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164140	-95.439089	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164139	-95.439087	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164138	-95.439087	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164138	-95.439087	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164138	-95.439087	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164138	-95.439087	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164137	-95.439088	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164135	-95.439088	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164134	-95.439087	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164134	-95.439087	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164132	-95.439085	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164131	-95.439081	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164128	-95.439080	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164129	-95.439080	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164126	-95.439079	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164127	-95.439078	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164127	-95.439078	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164126	-95.439075	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164123	-95.439074	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164120	-95.439073	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164118	-95.439069	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164117	-95.439067	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164114	-95.439065	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.164112	-95.439064	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164110	-95.439060	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164106	-95.439057	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164103	-95.439054	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164102	-95.439051	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164101	-95.439049	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164097	-95.439048	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164094	-95.439046	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164093	-95.439042	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164092	-95.439040	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164088	-95.439037	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164086	-95.439035	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164086	-95.439034	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164084	-95.439032	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164081	-95.439029	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164077	-95.439027	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164076	-95.439024	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164073	-95.439020	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164072	-95.439015	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164070	-95.439014	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164070	-95.439012	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164068	-95.439008	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164065	-95.439006	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164065	-95.439003	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164061	-95.439000	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164060	-95.439000	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164057	-95.439003	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164048	-95.439002	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164046	-95.439002	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164044	-95.439002	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164041	-95.439005	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164042	-95.439000	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164040	-95.438995	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164036	-95.438996	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164033	-95.438998	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.164029	-95.438996	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164024	-95.438994	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164017	-95.438991	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164008	-95.438986	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.164001	-95.438981	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163993	-95.438976	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163985	-95.438969	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163977	-95.438966	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163969	-95.438961	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163959	-95.438955	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163949	-95.438950	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163941	-95.438945	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163930	-95.438940	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163919	-95.438936	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163909	-95.438932	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163899	-95.438928	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163890	-95.438925	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163880	-95.438921	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163869	-95.438917	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163860	-95.438913	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163849	-95.438909	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163839	-95.438905	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163830	-95.438900	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163820	-95.438895	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163809	-95.438890	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163798	-95.438885	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163791	-95.438878	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163783	-95.438874	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163773	-95.438868	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163764	-95.438863	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163756	-95.438857	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163747	-95.438850	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163739	-95.438846	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163730	-95.438841	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163723	-95.438835	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.163716	-95.438830	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163708	-95.438823	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163702	-95.438822	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163695	-95.438817	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163689	-95.438809	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163682	-95.438800	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163677	-95.438793	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163669	-95.438786	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163662	-95.438780	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163656	-95.438774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163649	-95.438767	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163643	-95.438760	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163636	-95.438751	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163630	-95.438742	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163623	-95.438732	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163617	-95.438722	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163611	-95.438713	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163606	-95.438703	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163600	-95.438692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163594	-95.438681	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163588	-95.438671	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163583	-95.438661	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163579	-95.438650	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163575	-95.438639	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163571	-95.438626	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163566	-95.438613	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163562	-95.438599	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163557	-95.438585	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163553	-95.438571	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163550	-95.438556	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163548	-95.438541	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163546	-95.438527	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163544	-95.438513	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163543	-95.438498	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163541	-95.438483	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-A	30.163541	-95.438468	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163541	-95.438453	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163540	-95.438438	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163541	-95.438423	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163540	-95.438408	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163541	-95.438393	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163541	-95.438379	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163542	-95.438364	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163542	-95.438349	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163542	-95.438336	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-A	30.163543	-95.438324	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C OHWM										
Channel III-C	30.156448	-95.430639	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156449	-95.430639	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156449	-95.430640	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156448	-95.430641	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156447	-95.430644	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156445	-95.430647	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156446	-95.430650	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156446	-95.430654	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156448	-95.430659	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156456	-95.430675	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156458	-95.430674	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156457	-95.430667	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156459	-95.430673	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156464	-95.430677	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156470	-95.430681	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156473	-95.430681	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156480	-95.430683	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156483	-95.430681	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156490	-95.430681	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156496	-95.430683	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156502	-95.430684	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156509	-95.430684	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156515	-95.430685	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.156524	-95.430684	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156532	-95.430683	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156538	-95.430684	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156546	-95.430683	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156552	-95.430679	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156558	-95.430678	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156562	-95.430678	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156567	-95.430680	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156574	-95.430681	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156580	-95.430682	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156586	-95.430682	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156594	-95.430682	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156600	-95.430684	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156605	-95.430687	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156609	-95.430691	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156616	-95.430692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156622	-95.430694	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156627	-95.430694	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156633	-95.430692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156637	-95.430692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156641	-95.430693	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156655	-95.430691	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156661	-95.430690	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156667	-95.430691	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156672	-95.430689	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156679	-95.430690	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156685	-95.430688	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156691	-95.430686	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156697	-95.430685	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156704	-95.430685	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156710	-95.430685	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156717	-95.430685	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156723	-95.430686	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156729	-95.430685	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156732	-95.430684	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.156738	-95.430685	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156742	-95.430685	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156751	-95.430685	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156771	-95.430690	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156777	-95.430689	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156782	-95.430689	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156787	-95.430687	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156791	-95.430689	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156793	-95.430690	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156798	-95.430691	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156804	-95.430691	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156823	-95.430684	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156831	-95.430690	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156832	-95.430693	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156828	-95.430688	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156833	-95.430688	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156840	-95.430686	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156846	-95.430685	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156848	-95.430684	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156852	-95.430684	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156856	-95.430686	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156862	-95.430685	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156867	-95.430687	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156875	-95.430687	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156881	-95.430689	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156886	-95.430690	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156894	-95.430693	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156900	-95.430698	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156905	-95.430701	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156911	-95.430702	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156916	-95.430700	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156921	-95.430697	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156928	-95.430695	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156936	-95.430695	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156943	-95.430694	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.156949	-95.430694	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156954	-95.430694	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156958	-95.430694	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156963	-95.430695	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156990	-95.430712	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156995	-95.430714	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157001	-95.430715	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157009	-95.430716	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157030	-95.430714	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157038	-95.430714	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157045	-95.430710	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157051	-95.430708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157069	-95.430703	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157078	-95.430703	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157087	-95.430704	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157095	-95.430704	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157101	-95.430703	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157109	-95.430703	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157117	-95.430703	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157125	-95.430704	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157134	-95.430706	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157143	-95.430705	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157151	-95.430704	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157156	-95.430705	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157162	-95.430706	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157172	-95.430707	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157181	-95.430707	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157190	-95.430708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157199	-95.430708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157208	-95.430708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157218	-95.430707	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157226	-95.430707	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157235	-95.430708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157244	-95.430709	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157252	-95.430707	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.157261	-95.430707	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157271	-95.430704	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157279	-95.430702	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157285	-95.430701	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157292	-95.430701	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157299	-95.430700	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157306	-95.430701	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157312	-95.430699	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157319	-95.430698	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157325	-95.430698	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157332	-95.430698	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157338	-95.430697	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157346	-95.430697	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157352	-95.430698	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157360	-95.430698	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157364	-95.430700	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157369	-95.430701	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157370	-95.430704	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157376	-95.430709	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157383	-95.430712	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157398	-95.430699	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157403	-95.430697	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157410	-95.430697	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157415	-95.430696	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157419	-95.430696	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157422	-95.430696	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157427	-95.430696	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157431	-95.430696	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157436	-95.430695	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157441	-95.430694	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157443	-95.430693	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157444	-95.430693	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157444	-95.430693	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157447	-95.430692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157447	-95.430690	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.157445	-95.430692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157454	-95.430692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157468	-95.430699	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157476	-95.430699	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157482	-95.430700	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157490	-95.430702	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157498	-95.430704	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157504	-95.430704	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157512	-95.430708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157518	-95.430710	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157522	-95.430710	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157528	-95.430709	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157535	-95.430708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157545	-95.430708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157553	-95.430707	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157563	-95.430711	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157565	-95.430711	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157575	-95.430713	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157582	-95.430708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157588	-95.430712	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157595	-95.430708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157604	-95.430716	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157614	-95.430727	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157621	-95.430724	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157630	-95.430723	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157641	-95.430718	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157647	-95.430719	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157656	-95.430716	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157660	-95.430710	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157665	-95.430711	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157667	-95.430711	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157673	-95.430715	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157680	-95.430717	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157688	-95.430713	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157698	-95.430717	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.157703	-95.430721	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157711	-95.430724	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157717	-95.430726	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157725	-95.430730	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157728	-95.430734	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157734	-95.430741	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157741	-95.430744	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157741	-95.430753	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157739	-95.430750	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157740	-95.430764	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157747	-95.430774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157752	-95.430779	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157756	-95.430783	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157770	-95.430786	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157767	-95.430787	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157778	-95.430791	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157792	-95.430783	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157800	-95.430781	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157807	-95.430774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157813	-95.430769	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157819	-95.430767	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157830	-95.430755	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157836	-95.430755	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157837	-95.430752	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157843	-95.430751	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157847	-95.430752	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157854	-95.430752	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157857	-95.430752	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157870	-95.430739	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157877	-95.430728	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157883	-95.430725	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157890	-95.430724	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157897	-95.430721	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157903	-95.430715	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157912	-95.430712	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.157918	-95.430708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157924	-95.430715	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157927	-95.430710	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157941	-95.430708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157942	-95.430709	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157951	-95.430719	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157965	-95.430719	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157979	-95.430719	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157986	-95.430717	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157988	-95.430710	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157987	-95.430712	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157990	-95.430707	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157996	-95.430701	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157995	-95.430703	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158004	-95.430701	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158013	-95.430703	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158026	-95.430705	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158033	-95.430709	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158049	-95.430711	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158059	-95.430705	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158067	-95.430703	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158080	-95.430702	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158087	-95.430695	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158097	-95.430690	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158107	-95.430699	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158116	-95.430695	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158120	-95.430699	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158129	-95.430706	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158136	-95.430708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158143	-95.430708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158151	-95.430711	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158156	-95.430713	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158162	-95.430709	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158164	-95.430707	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158175	-95.430706	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.158181	-95.430714	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158188	-95.430714	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158197	-95.430714	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158200	-95.430720	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158209	-95.430709	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158213	-95.430709	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158221	-95.430707	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158225	-95.430710	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158229	-95.430716	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158236	-95.430724	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158237	-95.430733	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158244	-95.430738	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158251	-95.430739	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158262	-95.430742	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158289	-95.430750	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158286	-95.430747	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158286	-95.430747	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158294	-95.430747	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158298	-95.430754	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158305	-95.430760	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158323	-95.430751	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158336	-95.430747	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158351	-95.430738	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158352	-95.430734	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158363	-95.430742	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158372	-95.430738	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158374	-95.430737	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158381	-95.430737	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158382	-95.430747	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158397	-95.430747	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158404	-95.430743	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158420	-95.430736	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158428	-95.430730	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158434	-95.430733	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158442	-95.430738	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.158456	-95.430736	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158464	-95.430726	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158471	-95.430728	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158483	-95.430723	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158489	-95.430723	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158497	-95.430728	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158502	-95.430734	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158514	-95.430737	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158526	-95.430730	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158526	-95.430747	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158540	-95.430747	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158549	-95.430751	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158553	-95.430754	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158556	-95.430759	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158555	-95.430760	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158566	-95.430763	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158583	-95.430753	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158601	-95.430745	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158599	-95.430756	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158608	-95.430769	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158620	-95.430782	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158628	-95.430789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158634	-95.430793	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158634	-95.430789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158638	-95.430785	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158647	-95.430776	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158650	-95.430792	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158660	-95.430812	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158666	-95.430805	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158682	-95.430799	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158686	-95.430801	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158698	-95.430798	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158713	-95.430789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158722	-95.430782	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158735	-95.430779	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.158740	-95.430785	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158749	-95.430774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158755	-95.430769	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158763	-95.430776	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158767	-95.430774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158760	-95.430782	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158766	-95.430775	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158767	-95.430764	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158766	-95.430763	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158765	-95.430757	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158769	-95.430760	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158763	-95.430748	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158757	-95.430754	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158755	-95.430747	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158750	-95.430767	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158755	-95.430782	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158755	-95.430797	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158752	-95.430816	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158770	-95.430799	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158783	-95.430777	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158786	-95.430774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158793	-95.430774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158800	-95.430770	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158813	-95.430774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158824	-95.430771	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158832	-95.430761	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158843	-95.430753	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158852	-95.430751	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158865	-95.430744	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158869	-95.430755	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158871	-95.430753	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158877	-95.430760	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158886	-95.430755	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158891	-95.430741	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158901	-95.430736	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.158913	-95.430732	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158919	-95.430747	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158926	-95.430748	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158933	-95.430749	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158937	-95.430749	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158944	-95.430750	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158949	-95.430749	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158957	-95.430742	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158963	-95.430747	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158974	-95.430740	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158985	-95.430746	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158998	-95.430747	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159009	-95.430743	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159012	-95.430748	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159023	-95.430741	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159026	-95.430750	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159032	-95.430756	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159043	-95.430753	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159047	-95.430756	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159059	-95.430746	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159062	-95.430749	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159068	-95.430752	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159074	-95.430750	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159083	-95.430750	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159092	-95.430750	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159099	-95.430755	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159105	-95.430757	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159111	-95.430758	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159117	-95.430764	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159120	-95.430777	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159124	-95.430775	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159135	-95.430769	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159144	-95.430762	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159146	-95.430766	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159148	-95.430766	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.159150	-95.430766	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159156	-95.430768	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159163	-95.430774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159168	-95.430778	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159170	-95.430780	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159181	-95.430776	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159189	-95.430776	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159193	-95.430775	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159201	-95.430775	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159214	-95.430794	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159222	-95.430778	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159229	-95.430775	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159229	-95.430786	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159241	-95.430787	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159251	-95.430791	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159266	-95.430775	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159267	-95.430767	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159271	-95.430774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159279	-95.430773	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159283	-95.430779	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159289	-95.430777	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159299	-95.430771	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159296	-95.430778	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159308	-95.430781	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159318	-95.430778	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159336	-95.430781	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159348	-95.430779	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159352	-95.430774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159357	-95.430769	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159364	-95.430768	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159373	-95.430772	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159379	-95.430770	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159382	-95.430772	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159389	-95.430777	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159396	-95.430775	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.159399	-95.430781	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159407	-95.430778	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159412	-95.430776	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159421	-95.430776	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159423	-95.430765	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159437	-95.430763	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159439	-95.430774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159449	-95.430771	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159458	-95.430774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159455	-95.430774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159457	-95.430792	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159469	-95.430795	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159481	-95.430788	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159487	-95.430780	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159500	-95.430777	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159506	-95.430777	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159511	-95.430776	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159522	-95.430766	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159525	-95.430770	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159526	-95.430785	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159532	-95.430790	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159539	-95.430791	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159547	-95.430789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159551	-95.430788	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159556	-95.430788	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159560	-95.430789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159563	-95.430788	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159567	-95.430789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159570	-95.430789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159576	-95.430789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159581	-95.430789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159586	-95.430790	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159590	-95.430790	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159594	-95.430788	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159597	-95.430800	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.159600	-95.430796	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159601	-95.430795	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159603	-95.430795	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159606	-95.430797	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159611	-95.430796	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159616	-95.430795	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159616	-95.430796	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159620	-95.430796	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159622	-95.430796	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159625	-95.430798	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159631	-95.430795	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159635	-95.430797	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159639	-95.430798	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159643	-95.430798	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159647	-95.430797	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159651	-95.430797	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159658	-95.430797	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159662	-95.430796	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159664	-95.430798	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159659	-95.430815	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159659	-95.430810	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159657	-95.430816	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159669	-95.430815	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159679	-95.430818	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159678	-95.430825	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159686	-95.430817	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159697	-95.430803	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159699	-95.430808	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159704	-95.430796	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159718	-95.430789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159726	-95.430795	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159768	-95.430792	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159775	-95.430788	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159780	-95.430798	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159787	-95.430799	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.159794	-95.430807	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159796	-95.430799	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159815	-95.430790	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159822	-95.430788	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159829	-95.430796	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159843	-95.430803	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159858	-95.430803	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159867	-95.430793	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159873	-95.430797	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159880	-95.430794	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159881	-95.430794	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159883	-95.430780	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159894	-95.430789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159900	-95.430790	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159912	-95.430796	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159918	-95.430787	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159944	-95.430780	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159947	-95.430782	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159952	-95.430791	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159959	-95.430790	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159960	-95.430789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159965	-95.430779	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159972	-95.430786	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159975	-95.430794	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159977	-95.430811	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159989	-95.430812	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159984	-95.430825	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159988	-95.430808	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159996	-95.430819	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160001	-95.430808	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160011	-95.430809	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160013	-95.430818	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160012	-95.430829	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160013	-95.430835	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160034	-95.430811	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.160031	-95.430836	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160040	-95.430828	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160054	-95.430825	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160055	-95.430815	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160055	-95.430812	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160050	-95.430812	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160068	-95.430815	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160079	-95.430808	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160084	-95.430812	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160086	-95.430810	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160093	-95.430804	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160100	-95.430801	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160100	-95.430806	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160097	-95.430808	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160098	-95.430813	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160111	-95.430816	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160114	-95.430819	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160122	-95.430796	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160122	-95.430805	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160139	-95.430796	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160142	-95.430791	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160145	-95.430785	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160150	-95.430793	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160158	-95.430799	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160185	-95.430791	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160192	-95.430797	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160193	-95.430801	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160195	-95.430794	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160206	-95.430786	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160208	-95.430785	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160220	-95.430787	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160216	-95.430792	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160219	-95.430805	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160229	-95.430803	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160231	-95.430809	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.160243	-95.430803	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160251	-95.430796	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160246	-95.430806	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160254	-95.430811	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160261	-95.430809	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160263	-95.430810	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160258	-95.430801	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160254	-95.430802	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160247	-95.430819	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160258	-95.430827	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160258	-95.430826	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160261	-95.430818	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160254	-95.430816	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160268	-95.430814	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160270	-95.430816	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160282	-95.430817	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160290	-95.430804	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160300	-95.430811	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160297	-95.430836	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160307	-95.430841	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160312	-95.430844	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160321	-95.430843	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160334	-95.430846	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160340	-95.430845	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160343	-95.430852	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160352	-95.430847	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160363	-95.430851	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160366	-95.430858	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160381	-95.430863	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160390	-95.430867	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160399	-95.430863	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160405	-95.430867	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160424	-95.430860	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160434	-95.430860	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160443	-95.430855	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.160450	-95.430852	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160459	-95.430854	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160467	-95.430864	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160480	-95.430862	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160480	-95.430867	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160486	-95.430872	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160493	-95.430880	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160506	-95.430872	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160512	-95.430872	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160522	-95.430864	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160522	-95.430860	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160523	-95.430858	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160541	-95.430850	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160553	-95.430854	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160563	-95.430845	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160559	-95.430851	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160555	-95.430861	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160545	-95.430878	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160568	-95.430873	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160574	-95.430871	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160582	-95.430862	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160587	-95.430851	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160592	-95.430866	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160586	-95.430878	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160598	-95.430869	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160603	-95.430875	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160598	-95.430874	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160599	-95.430869	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160602	-95.430878	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160602	-95.430872	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160613	-95.430880	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160615	-95.430893	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160616	-95.430899	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160615	-95.430914	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160616	-95.430929	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.160622	-95.430935	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160618	-95.430934	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160622	-95.430927	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160609	-95.430928	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160610	-95.430922	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160632	-95.430930	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160655	-95.430929	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160665	-95.430933	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160677	-95.430933	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160685	-95.430919	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160690	-95.430912	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160699	-95.430916	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160708	-95.430914	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160712	-95.430919	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160715	-95.430940	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160719	-95.430941	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160737	-95.430929	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160746	-95.430929	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160751	-95.430929	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160767	-95.430921	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160775	-95.430920	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160791	-95.430911	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160802	-95.430917	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160803	-95.430933	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160815	-95.430931	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160819	-95.430942	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160826	-95.430943	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160840	-95.430925	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160837	-95.430948	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160848	-95.430953	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160868	-95.430962	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160871	-95.430972	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160881	-95.430973	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160884	-95.430973	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160895	-95.430984	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.160915	-95.430972	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160916	-95.430972	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160927	-95.430977	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160937	-95.430971	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160943	-95.430981	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160959	-95.430974	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160967	-95.430972	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160975	-95.430974	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160979	-95.430974	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160982	-95.430974	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160994	-95.430974	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161000	-95.430975	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161006	-95.430982	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161018	-95.430988	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161028	-95.431001	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161035	-95.431005	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161046	-95.431012	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161041	-95.431024	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161046	-95.431038	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161047	-95.431043	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161057	-95.431052	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161071	-95.431057	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161082	-95.431059	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161087	-95.431060	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161092	-95.431076	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161099	-95.431067	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161111	-95.431070	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161120	-95.431075	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161135	-95.431092	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161140	-95.431090	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161144	-95.431079	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161166	-95.431066	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161176	-95.431075	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161191	-95.431074	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161197	-95.431082	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.161199	-95.431109	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161212	-95.431099	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161237	-95.431105	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161258	-95.431112	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161279	-95.431106	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161273	-95.431101	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161280	-95.431099	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161286	-95.431112	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161313	-95.431131	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161310	-95.431111	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161313	-95.431117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161323	-95.431127	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161326	-95.431126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161337	-95.431133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161338	-95.431146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161349	-95.431165	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161342	-95.431121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161356	-95.431120	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161368	-95.431128	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161376	-95.431125	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161376	-95.431119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161392	-95.431122	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161402	-95.431125	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161414	-95.431121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161412	-95.431134	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161410	-95.431138	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161428	-95.431135	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161438	-95.431146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161449	-95.431143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161453	-95.431143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161450	-95.431139	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161448	-95.431144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161459	-95.431152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161464	-95.431148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161470	-95.431150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.161479	-95.431152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161496	-95.431155	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161479	-95.431155	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161476	-95.431145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161475	-95.431156	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161482	-95.431150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161478	-95.431161	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161480	-95.431156	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161489	-95.431160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161491	-95.431156	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161491	-95.431160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161490	-95.431164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161489	-95.431182	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161510	-95.431152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161509	-95.431170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161517	-95.431162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161506	-95.431165	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161505	-95.431170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161502	-95.431174	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161502	-95.431187	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161500	-95.431192	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161507	-95.431193	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161521	-95.431187	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161515	-95.431187	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161527	-95.431198	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161530	-95.431212	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161545	-95.431214	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161565	-95.431198	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161582	-95.431182	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161591	-95.431180	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161600	-95.431169	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161602	-95.431196	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161618	-95.431204	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161609	-95.431195	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161626	-95.431206	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.161638	-95.431215	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161625	-95.431208	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161643	-95.431203	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161644	-95.431206	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161647	-95.431213	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161660	-95.431208	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161673	-95.431203	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161669	-95.431207	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161671	-95.431215	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161672	-95.431222	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161673	-95.431218	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161675	-95.431222	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161694	-95.431205	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161695	-95.431206	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161696	-95.431227	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161697	-95.431219	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161703	-95.431229	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161709	-95.431234	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161712	-95.431237	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161713	-95.431229	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161720	-95.431230	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161724	-95.431233	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161739	-95.431234	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161744	-95.431227	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161750	-95.431234	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161751	-95.431247	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161755	-95.431243	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161763	-95.431225	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161767	-95.431216	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161771	-95.431230	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161776	-95.431231	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161778	-95.431240	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161774	-95.431245	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161780	-95.431249	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161788	-95.431246	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.161795	-95.431242	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161798	-95.431257	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161798	-95.431275	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161806	-95.431277	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161812	-95.431276	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161818	-95.431277	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161823	-95.431267	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161820	-95.431268	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161817	-95.431277	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161822	-95.431283	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161826	-95.431281	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161829	-95.431282	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161833	-95.431287	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161832	-95.431283	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161830	-95.431279	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161833	-95.431287	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161843	-95.431288	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161847	-95.431288	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161850	-95.431287	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161851	-95.431299	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161854	-95.431303	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161870	-95.431310	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161872	-95.431323	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161873	-95.431320	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161879	-95.431314	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161882	-95.431324	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161881	-95.431319	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161886	-95.431324	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161892	-95.431329	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161888	-95.431332	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161889	-95.431333	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161897	-95.431336	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161898	-95.431339	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161899	-95.431346	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161899	-95.431343	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.161901	-95.431338	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161912	-95.431335	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161917	-95.431346	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161926	-95.431357	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161930	-95.431363	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161922	-95.431356	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161937	-95.431372	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161936	-95.431375	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161939	-95.431376	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161941	-95.431379	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161930	-95.431388	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161938	-95.431394	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161942	-95.431401	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161940	-95.431414	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161951	-95.431429	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161958	-95.431432	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161953	-95.431427	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161953	-95.431428	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161962	-95.431433	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161960	-95.431430	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161959	-95.431428	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161977	-95.431445	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161983	-95.431462	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161988	-95.431476	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161989	-95.431480	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162004	-95.431483	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162012	-95.431485	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162010	-95.431484	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162012	-95.431486	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162014	-95.431495	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162017	-95.431514	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162021	-95.431510	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162027	-95.431508	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162029	-95.431521	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.431548	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162037	-95.431576	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.431573	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162033	-95.431576	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162029	-95.431584	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162031	-95.431590	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.431596	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.431602	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162039	-95.431607	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162040	-95.431613	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.431617	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162043	-95.431623	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162045	-95.431627	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162048	-95.431634	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162049	-95.431642	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162051	-95.431648	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162053	-95.431657	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162058	-95.431665	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162061	-95.431674	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162063	-95.431683	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162066	-95.431692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162068	-95.431701	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162070	-95.431709	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162072	-95.431717	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162074	-95.431726	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162076	-95.431734	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162078	-95.431743	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162080	-95.431753	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162081	-95.431762	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162083	-95.431772	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162085	-95.431783	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162086	-95.431793	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162088	-95.431804	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162089	-95.431812	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162089	-95.431819	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162090	-95.431826	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162092	-95.431835	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162092	-95.431844	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162092	-95.431853	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162092	-95.431862	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162092	-95.431869	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162092	-95.431877	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162093	-95.431885	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162093	-95.431892	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162092	-95.431901	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162092	-95.431910	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162091	-95.431916	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162090	-95.431925	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162090	-95.431932	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162089	-95.431941	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162088	-95.431951	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162087	-95.431959	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162085	-95.431969	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162085	-95.431978	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162085	-95.431986	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162085	-95.431996	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162085	-95.432005	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162085	-95.432014	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162085	-95.432025	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162085	-95.432034	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162086	-95.432044	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162087	-95.432054	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162088	-95.432063	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162088	-95.432071	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162089	-95.432081	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162090	-95.432088	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162091	-95.432096	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162093	-95.432106	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162095	-95.432114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162095	-95.432122	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162096	-95.432131	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162098	-95.432140	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162098	-95.432149	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162097	-95.432156	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162096	-95.432165	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162094	-95.432171	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162092	-95.432176	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162090	-95.432180	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162088	-95.432182	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162084	-95.432180	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162077	-95.432177	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162073	-95.432173	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162069	-95.432179	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162068	-95.432188	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162067	-95.432198	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162067	-95.432207	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162068	-95.432217	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162071	-95.432235	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162070	-95.432254	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162070	-95.432263	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162069	-95.432272	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162069	-95.432278	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162069	-95.432287	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162068	-95.432295	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162068	-95.432303	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162068	-95.432310	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162067	-95.432317	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162067	-95.432326	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162070	-95.432336	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162071	-95.432342	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162072	-95.432352	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162072	-95.432362	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162075	-95.432371	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162075	-95.432380	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162076	-95.432387	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162076	-95.432399	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162075	-95.432408	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162076	-95.432418	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162074	-95.432428	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162073	-95.432439	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162070	-95.432446	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162069	-95.432455	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162067	-95.432465	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162068	-95.432474	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162067	-95.432484	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162066	-95.432493	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162065	-95.432501	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162064	-95.432511	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162062	-95.432519	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162060	-95.432529	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162059	-95.432537	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162058	-95.432547	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162057	-95.432554	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162057	-95.432564	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162058	-95.432575	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162057	-95.432583	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162055	-95.432594	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162055	-95.432603	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162055	-95.432612	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162051	-95.432619	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162053	-95.432642	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162053	-95.432649	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162054	-95.432659	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162056	-95.432670	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162055	-95.432682	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162058	-95.432695	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162057	-95.432704	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162052	-95.432711	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162050	-95.432723	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162050	-95.432729	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162050	-95.432737	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162048	-95.432755	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162048	-95.432759	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162049	-95.432764	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162052	-95.432765	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162054	-95.432768	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162058	-95.432779	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162058	-95.432786	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162056	-95.432796	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162054	-95.432805	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162053	-95.432813	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162052	-95.432823	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162053	-95.432846	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162051	-95.432854	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162052	-95.432862	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162053	-95.432872	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162054	-95.432881	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162055	-95.432890	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162057	-95.432898	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162057	-95.432907	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162057	-95.432924	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162058	-95.432928	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162058	-95.432935	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162057	-95.432943	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162056	-95.432948	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162056	-95.432955	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162055	-95.432962	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162054	-95.432968	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162054	-95.432976	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162054	-95.432983	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162052	-95.432991	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162053	-95.433000	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162052	-95.433009	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162051	-95.433018	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162052	-95.433026	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162054	-95.433032	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162054	-95.433037	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162052	-95.433044	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162051	-95.433050	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162050	-95.433059	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162050	-95.433068	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162050	-95.433076	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162049	-95.433083	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162049	-95.433091	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162049	-95.433098	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162048	-95.433106	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162048	-95.433114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162046	-95.433123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162046	-95.433132	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162045	-95.433141	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162044	-95.433152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162044	-95.433161	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162043	-95.433171	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162043	-95.433181	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162043	-95.433191	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.433201	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162043	-95.433210	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162043	-95.433219	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.433228	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.433237	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.433247	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162041	-95.433257	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162041	-95.433267	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.433278	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162041	-95.433286	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162041	-95.433295	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162041	-95.433305	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.433315	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.433323	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162040	-95.433330	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.433338	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162035	-95.433343	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162032	-95.433352	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.433360	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.433370	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162039	-95.433378	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162040	-95.433387	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162041	-95.433396	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162041	-95.433406	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.433414	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.433422	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.433429	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162043	-95.433438	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.433446	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.433454	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162041	-95.433462	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162041	-95.433471	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162041	-95.433478	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162041	-95.433486	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162040	-95.433495	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162039	-95.433503	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.433513	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.433521	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.433529	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.433538	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.433545	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.433554	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.433562	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.433570	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.433578	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.433588	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.433597	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.433605	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.433613	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.433625	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.433634	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162035	-95.433643	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.433653	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162032	-95.433661	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162030	-95.433670	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162027	-95.433680	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162028	-95.433690	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162029	-95.433700	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162030	-95.433709	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162033	-95.433718	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.433727	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.433735	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162043	-95.433742	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162040	-95.433746	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162039	-95.433750	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162040	-95.433755	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.433758	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.433758	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.433761	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.433764	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.433769	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.433774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162040	-95.433778	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162045	-95.433790	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162040	-95.433794	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162039	-95.433803	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162039	-95.433809	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162040	-95.433816	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162040	-95.433824	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162040	-95.433832	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162040	-95.433841	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.433850	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162043	-95.433859	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162045	-95.433868	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162045	-95.433877	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162046	-95.433886	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162048	-95.433895	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162050	-95.433904	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162051	-95.433912	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162052	-95.433923	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162053	-95.433933	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162055	-95.433943	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162056	-95.433953	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162059	-95.433965	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162060	-95.433974	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162061	-95.433983	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162066	-95.434000	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162057	-95.434002	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162057	-95.434012	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162055	-95.434023	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162054	-95.434033	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162052	-95.434042	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162051	-95.434052	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162050	-95.434062	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162048	-95.434071	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162046	-95.434079	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162055	-95.434105	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162053	-95.434113	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162044	-95.434106	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162040	-95.434116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162029	-95.434115	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162027	-95.434124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162030	-95.434148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162029	-95.434162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162027	-95.434151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162031	-95.434160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162032	-95.434167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162033	-95.434177	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162033	-95.434186	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162033	-95.434196	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.434206	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162034	-95.434216	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162033	-95.434227	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162029	-95.434234	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162032	-95.434248	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162031	-95.434258	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162030	-95.434267	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162030	-95.434276	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162030	-95.434287	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162032	-95.434297	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162033	-95.434306	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.434316	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.434327	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.434338	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.434349	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.434359	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.434368	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.434389	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.434390	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.434408	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.434418	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.434424	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.434427	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.434433	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.434437	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162030	-95.434443	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162028	-95.434453	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162025	-95.434459	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162020	-95.434464	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162015	-95.434469	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162010	-95.434476	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.434484	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162009	-95.434496	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.434491	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162002	-95.434498	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162003	-95.434504	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162004	-95.434506	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162005	-95.434505	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162003	-95.434506	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162007	-95.434506	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162007	-95.434517	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162010	-95.434521	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162013	-95.434525	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.434525	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.434535	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.434543	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162046	-95.434538	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162060	-95.434554	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162067	-95.434561	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162062	-95.434573	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162060	-95.434579	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162051	-95.434598	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.434604	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.434611	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162041	-95.434622	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.434631	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.434635	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162044	-95.434646	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162047	-95.434661	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162047	-95.434671	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162047	-95.434677	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162048	-95.434685	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.434687	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162039	-95.434692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162039	-95.434700	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162039	-95.434708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162039	-95.434715	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.434723	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.434731	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.434735	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.434744	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162036	-95.434753	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.434762	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.434770	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.434780	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.434788	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.434798	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.434807	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.434816	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162032	-95.434825	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162031	-95.434833	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162030	-95.434844	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162031	-95.434854	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162031	-95.434863	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162031	-95.434873	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162030	-95.434883	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162030	-95.434891	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162029	-95.434899	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162027	-95.434908	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162025	-95.434918	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162024	-95.434927	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162025	-95.434934	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162025	-95.434945	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162024	-95.434953	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162024	-95.434963	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162025	-95.434974	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162025	-95.434981	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162026	-95.434992	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162026	-95.435001	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162027	-95.435010	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162029	-95.435019	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162029	-95.435028	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162029	-95.435036	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162028	-95.435043	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162026	-95.435051	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.435056	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162018	-95.435062	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162015	-95.435073	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162014	-95.435078	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162011	-95.435085	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162009	-95.435090	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162010	-95.435094	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162009	-95.435100	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162014	-95.435106	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162018	-95.435114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162020	-95.435122	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.435130	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.435139	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.435148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.435157	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.435167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.435175	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162023	-95.435180	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162023	-95.435188	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162023	-95.435196	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162023	-95.435204	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.435212	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.435220	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.435230	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.435238	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162023	-95.435246	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162024	-95.435254	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162024	-95.435262	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162025	-95.435265	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162026	-95.435272	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162024	-95.435281	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162025	-95.435298	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162031	-95.435305	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.435312	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162044	-95.435312	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162059	-95.435322	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162059	-95.435326	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162048	-95.435321	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162039	-95.435310	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162029	-95.435304	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162024	-95.435305	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162015	-95.435322	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162017	-95.435330	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162023	-95.435340	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162025	-95.435350	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162021	-95.435370	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.435372	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162020	-95.435377	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162021	-95.435381	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.435386	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162025	-95.435387	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162025	-95.435393	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162024	-95.435398	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162025	-95.435401	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162028	-95.435402	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162026	-95.435405	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162024	-95.435411	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162024	-95.435417	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162024	-95.435425	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.435431	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.435440	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162023	-95.435449	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.435456	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162025	-95.435465	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162025	-95.435474	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162026	-95.435483	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162027	-95.435491	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162028	-95.435500	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162028	-95.435508	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162028	-95.435516	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162028	-95.435526	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162029	-95.435534	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162028	-95.435542	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162029	-95.435553	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162029	-95.435565	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162029	-95.435574	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162030	-95.435583	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162030	-95.435594	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162030	-95.435604	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162030	-95.435613	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162032	-95.435622	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162032	-95.435632	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162031	-95.435640	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162033	-95.435650	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.435660	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.435668	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.435677	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.435684	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.435687	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.435691	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.435695	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162032	-95.435702	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162031	-95.435708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162028	-95.435716	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162028	-95.435724	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162028	-95.435735	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162027	-95.435744	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162026	-95.435753	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162026	-95.435762	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162027	-95.435769	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162029	-95.435778	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162032	-95.435787	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162033	-95.435793	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162033	-95.435799	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.435807	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.435817	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162038	-95.435828	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.435833	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.435843	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.435847	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.435854	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.435859	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.435865	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.435874	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.435884	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.435894	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.435900	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.435904	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.435906	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.435905	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.435904	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.435906	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.435907	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.435910	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.435914	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.435914	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.435915	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.435926	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.435928	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.435933	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.435937	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.435942	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.435946	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.435950	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.435952	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.435954	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.435956	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.435957	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.435956	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.435957	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.435957	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162036	-95.435956	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.435958	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.435961	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.435969	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.435976	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.435981	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.435988	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.435996	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.436006	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.436013	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.436020	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.436026	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162033	-95.436029	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162033	-95.436032	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162031	-95.436037	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162029	-95.436041	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162029	-95.436047	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162027	-95.436052	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162025	-95.436057	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162024	-95.436063	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162023	-95.436067	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.436073	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162021	-95.436078	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162020	-95.436084	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162021	-95.436088	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162021	-95.436089	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162021	-95.436091	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162020	-95.436094	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162021	-95.436097	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162020	-95.436099	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162019	-95.436105	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162018	-95.436114	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162018	-95.436122	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162014	-95.436130	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.436138	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162002	-95.436144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162000	-95.436155	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162000	-95.436164	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161999	-95.436177	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161998	-95.436187	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161998	-95.436197	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161997	-95.436208	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161997	-95.436218	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161997	-95.436226	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.436237	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.436248	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161995	-95.436258	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161997	-95.436270	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.436281	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.436291	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.436302	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.436312	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161995	-95.436322	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.436331	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.436344	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161997	-95.436355	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161998	-95.436364	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161997	-95.436371	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161998	-95.436382	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162001	-95.436392	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162002	-95.436402	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162002	-95.436411	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162001	-95.436423	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162001	-95.436434	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162000	-95.436444	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161999	-95.436455	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161998	-95.436466	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161997	-95.436477	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.436488	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161995	-95.436499	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.161995	-95.436509	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161995	-95.436520	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161995	-95.436532	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161995	-95.436543	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161995	-95.436555	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161995	-95.436567	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.436577	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.436588	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161997	-95.436601	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161998	-95.436613	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161998	-95.436624	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161998	-95.436635	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161999	-95.436646	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162001	-95.436657	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162001	-95.436668	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162001	-95.436678	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162001	-95.436689	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162001	-95.436701	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162002	-95.436709	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162004	-95.436718	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.436731	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162007	-95.436740	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.436750	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162009	-95.436761	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162011	-95.436773	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162013	-95.436783	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162016	-95.436793	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162019	-95.436805	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.436813	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162024	-95.436822	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162027	-95.436836	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162031	-95.436845	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162033	-95.436854	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.436865	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162039	-95.436876	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162043	-95.436887	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162048	-95.436895	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162052	-95.436906	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162057	-95.436918	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162063	-95.436928	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162067	-95.436938	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162073	-95.436950	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162078	-95.436959	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162085	-95.436973	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162093	-95.436979	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162100	-95.436990	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162105	-95.436999	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162110	-95.437009	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162116	-95.437017	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162120	-95.437024	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162123	-95.437031	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162129	-95.437039	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162135	-95.437047	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162141	-95.437055	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162147	-95.437062	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162154	-95.437069	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162161	-95.437076	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162167	-95.437082	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162173	-95.437088	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162179	-95.437095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162184	-95.437101	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162190	-95.437107	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162197	-95.437113	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162203	-95.437120	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162212	-95.437126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162219	-95.437132	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162225	-95.437138	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162233	-95.437143	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162241	-95.437148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162249	-95.437153	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162258	-95.437159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162264	-95.437165	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162272	-95.437169	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162281	-95.437174	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162288	-95.437179	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162298	-95.437187	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162306	-95.437192	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162309	-95.437193	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162314	-95.437196	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162321	-95.437201	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162327	-95.437203	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162331	-95.437207	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162332	-95.437210	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162331	-95.437208	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162335	-95.437209	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162338	-95.437212	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162348	-95.437216	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162357	-95.437217	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162365	-95.437221	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162374	-95.437224	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162383	-95.437228	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162394	-95.437232	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162404	-95.437235	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162414	-95.437239	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162422	-95.437241	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162431	-95.437243	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162441	-95.437247	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162450	-95.437250	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162458	-95.437251	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162469	-95.437252	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162478	-95.437254	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162487	-95.437256	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162496	-95.437258	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162505	-95.437260	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162512	-95.437262	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162520	-95.437263	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162530	-95.437264	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162539	-95.437266	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162548	-95.437268	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162557	-95.437270	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162567	-95.437271	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162577	-95.437272	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162587	-95.437273	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162596	-95.437275	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162605	-95.437278	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162613	-95.437278	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162623	-95.437281	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162632	-95.437284	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162643	-95.437287	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162652	-95.437287	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162660	-95.437288	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162669	-95.437290	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162677	-95.437290	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162685	-95.437292	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162693	-95.437293	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162701	-95.437293	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162710	-95.437294	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162719	-95.437295	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162728	-95.437296	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162735	-95.437300	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162743	-95.437299	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162750	-95.437299	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162758	-95.437301	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162767	-95.437303	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162775	-95.437304	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162784	-95.437305	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162794	-95.437306	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162802	-95.437307	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162811	-95.437308	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162820	-95.437309	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162828	-95.437310	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162835	-95.437311	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162842	-95.437312	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162850	-95.437316	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162860	-95.437319	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162870	-95.437320	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162878	-95.437321	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162883	-95.437321	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162890	-95.437322	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162897	-95.437322	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162902	-95.437324	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162908	-95.437326	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162915	-95.437327	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162920	-95.437328	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162925	-95.437327	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162932	-95.437330	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162940	-95.437331	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162949	-95.437334	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162957	-95.437337	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162966	-95.437336	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162971	-95.437335	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162977	-95.437336	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162982	-95.437337	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162987	-95.437337	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162992	-95.437337	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162999	-95.437338	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163005	-95.437338	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163010	-95.437338	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163017	-95.437341	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163025	-95.437343	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163034	-95.437343	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163042	-95.437345	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163051	-95.437347	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163061	-95.437350	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163070	-95.437351	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.163079	-95.437351	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163087	-95.437352	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163096	-95.437352	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163103	-95.437353	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163112	-95.437355	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163121	-95.437356	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163129	-95.437357	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163136	-95.437357	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163144	-95.437360	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163152	-95.437362	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163160	-95.437364	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163169	-95.437366	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163173	-95.437367	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163179	-95.437367	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163184	-95.437368	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163189	-95.437369	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163196	-95.437374	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163205	-95.437376	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163213	-95.437378	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163219	-95.437380	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163223	-95.437381	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163227	-95.437383	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163232	-95.437386	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163236	-95.437387	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163242	-95.437388	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163245	-95.437389	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163250	-95.437390	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163253	-95.437391	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163259	-95.437393	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163262	-95.437393	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163268	-95.437394	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163270	-95.437394	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163273	-95.437395	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163278	-95.437395	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163280	-95.437396	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.163282	-95.437397	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163287	-95.437398	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163297	-95.437401	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163301	-95.437402	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163304	-95.437402	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163309	-95.437403	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163312	-95.437404	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163315	-95.437406	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163319	-95.437409	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163323	-95.437411	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163327	-95.437414	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163330	-95.437415	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163334	-95.437418	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163338	-95.437421	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163341	-95.437422	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163348	-95.437425	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163356	-95.437427	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163362	-95.437427	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163368	-95.437429	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163375	-95.437432	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163381	-95.437435	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163387	-95.437437	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163393	-95.437440	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163401	-95.437444	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163408	-95.437445	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163416	-95.437448	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163424	-95.437451	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163431	-95.437453	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163440	-95.437453	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163447	-95.437455	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163454	-95.437457	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163472	-95.437464	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163481	-95.437469	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163489	-95.437473	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163496	-95.437476	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.163503	-95.437480	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163510	-95.437486	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163517	-95.437490	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163523	-95.437494	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163533	-95.437502	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163540	-95.437507	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163543	-95.437509	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163548	-95.437513	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163554	-95.437519	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163560	-95.437524	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163566	-95.437529	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163571	-95.437535	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163581	-95.437546	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163586	-95.437553	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163591	-95.437560	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163592	-95.437565	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163597	-95.437572	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163601	-95.437579	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163605	-95.437587	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163609	-95.437595	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163616	-95.437606	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163618	-95.437613	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163622	-95.437625	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163621	-95.437646	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163624	-95.437652	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163622	-95.437657	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163624	-95.437665	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163630	-95.437680	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163632	-95.437690	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163632	-95.437705	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163635	-95.437708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163642	-95.437711	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163644	-95.437714	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163644	-95.437718	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163648	-95.437734	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
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Channel III-C	30.163641	-95.437745	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163644	-95.437751	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163641	-95.437761	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163643	-95.437768	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163645	-95.437764	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163649	-95.437766	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163644	-95.437779	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163644	-95.437771	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163648	-95.437773	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163646	-95.437771	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163544	-95.438313	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163540	-95.438307	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163542	-95.438297	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163546	-95.438293	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163580	-95.437749	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163581	-95.437749	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163581	-95.437751	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163580	-95.437747	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163580	-95.437741	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163580	-95.437736	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163580	-95.437732	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163579	-95.437729	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163579	-95.437722	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163579	-95.437717	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163580	-95.437713	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163579	-95.437709	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163578	-95.437704	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163578	-95.437697	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163577	-95.437692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163577	-95.437687	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163576	-95.437683	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163575	-95.437677	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163575	-95.437672	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163574	-95.437668	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163572	-95.437663	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.163570	-95.437659	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163569	-95.437653	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163567	-95.437647	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163566	-95.437642	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163564	-95.437638	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163564	-95.437636	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163562	-95.437632	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163560	-95.437630	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163557	-95.437626	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163559	-95.437622	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163559	-95.437620	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163559	-95.437617	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163556	-95.437616	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163552	-95.437617	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163549	-95.437608	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163549	-95.437608	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163545	-95.437602	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163547	-95.437588	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163551	-95.437592	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163551	-95.437583	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163542	-95.437582	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163539	-95.437581	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163536	-95.437577	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163532	-95.437576	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163529	-95.437575	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163525	-95.437571	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163521	-95.437571	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163515	-95.437568	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163509	-95.437565	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163504	-95.437561	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163496	-95.437556	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163492	-95.437553	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163486	-95.437553	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163480	-95.437549	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163461	-95.437540	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.163479	-95.437529	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163472	-95.437527	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163451	-95.437532	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163449	-95.437528	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163445	-95.437529	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163442	-95.437526	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163437	-95.437529	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163434	-95.437525	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163432	-95.437522	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163444	-95.437510	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163419	-95.437493	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163424	-95.437489	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163418	-95.437481	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163408	-95.437480	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163393	-95.437471	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163385	-95.437468	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163390	-95.437471	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163384	-95.437470	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163362	-95.437456	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163364	-95.437449	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163343	-95.437453	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163333	-95.437452	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163323	-95.437454	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163316	-95.437454	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163307	-95.437452	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163298	-95.437449	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163289	-95.437448	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163281	-95.437445	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163271	-95.437442	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163263	-95.437440	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163255	-95.437438	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163247	-95.437438	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163239	-95.437435	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163232	-95.437431	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163225	-95.437428	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.163216	-95.437425	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163210	-95.437423	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163204	-95.437422	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163197	-95.437419	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163191	-95.437417	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163184	-95.437415	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163177	-95.437412	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163169	-95.437411	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163163	-95.437410	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163156	-95.437407	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163148	-95.437405	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163140	-95.437404	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163124	-95.437403	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163123	-95.437401	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163114	-95.437408	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163108	-95.437409	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163104	-95.437407	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163102	-95.437405	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163096	-95.437403	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163094	-95.437394	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163088	-95.437393	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163087	-95.437391	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163081	-95.437390	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163078	-95.437396	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163071	-95.437387	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163065	-95.437385	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163060	-95.437389	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163056	-95.437380	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163050	-95.437376	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163044	-95.437377	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163036	-95.437377	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163031	-95.437377	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163025	-95.437378	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163019	-95.437377	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.163013	-95.437377	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.163006	-95.437376	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162999	-95.437376	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162991	-95.437375	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162981	-95.437373	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162974	-95.437372	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162966	-95.437371	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162958	-95.437368	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162950	-95.437366	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162941	-95.437366	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162931	-95.437365	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162924	-95.437365	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162916	-95.437365	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162906	-95.437363	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162896	-95.437361	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162885	-95.437360	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162875	-95.437360	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162865	-95.437358	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162857	-95.437357	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162850	-95.437355	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162844	-95.437349	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162835	-95.437343	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162827	-95.437339	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162819	-95.437337	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162810	-95.437333	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162802	-95.437330	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162792	-95.437328	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162782	-95.437328	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162771	-95.437326	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162761	-95.437329	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162752	-95.437334	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162742	-95.437336	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162735	-95.437334	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162730	-95.437332	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162723	-95.437328	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162714	-95.437325	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162707	-95.437324	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162698	-95.437322	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162689	-95.437320	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162679	-95.437320	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162671	-95.437319	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162663	-95.437319	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162653	-95.437318	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162644	-95.437317	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162636	-95.437315	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162627	-95.437313	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162616	-95.437312	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162606	-95.437309	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162597	-95.437309	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162589	-95.437308	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162584	-95.437309	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162578	-95.437307	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162572	-95.437306	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162565	-95.437306	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162560	-95.437304	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162553	-95.437304	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162547	-95.437303	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162539	-95.437303	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162533	-95.437301	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162528	-95.437301	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162528	-95.437301	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162523	-95.437301	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162519	-95.437302	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162515	-95.437301	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162511	-95.437300	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162507	-95.437300	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162499	-95.437299	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162491	-95.437299	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162485	-95.437299	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162476	-95.437301	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162468	-95.437303	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162459	-95.437303	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162450	-95.437304	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162442	-95.437304	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162435	-95.437304	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162429	-95.437303	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162420	-95.437302	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162412	-95.437296	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162403	-95.437292	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162395	-95.437290	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162386	-95.437288	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162379	-95.437286	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162372	-95.437282	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162364	-95.437279	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162355	-95.437276	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162349	-95.437272	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162341	-95.437270	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162332	-95.437266	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162324	-95.437263	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162316	-95.437259	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162308	-95.437255	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162300	-95.437252	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162291	-95.437246	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162284	-95.437242	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162276	-95.437239	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162267	-95.437233	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162258	-95.437226	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162249	-95.437221	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162242	-95.437217	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162233	-95.437210	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162225	-95.437204	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162218	-95.437199	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162209	-95.437194	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162201	-95.437189	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162197	-95.437184	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162191	-95.437179	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162183	-95.437172	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162176	-95.437166	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162169	-95.437161	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162162	-95.437154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162154	-95.437146	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162147	-95.437140	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162140	-95.437133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162133	-95.437126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162125	-95.437117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162117	-95.437109	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162112	-95.437102	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162107	-95.437096	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162102	-95.437089	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162096	-95.437081	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162091	-95.437073	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162086	-95.437065	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162079	-95.437058	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162073	-95.437049	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162069	-95.437042	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162064	-95.437034	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162056	-95.437024	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162048	-95.437016	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162045	-95.437007	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162041	-95.436999	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.436990	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162031	-95.436982	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162027	-95.436973	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.436965	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162021	-95.436954	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162015	-95.436953	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162007	-95.436946	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162013	-95.436941	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162003	-95.436927	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162000	-95.436917	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161997	-95.436908	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.161993	-95.436897	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161989	-95.436886	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161985	-95.436874	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161984	-95.436866	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161980	-95.436854	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161976	-95.436840	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161973	-95.436828	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161970	-95.436815	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161967	-95.436805	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161965	-95.436794	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161962	-95.436783	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161959	-95.436770	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161958	-95.436759	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161956	-95.436748	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161955	-95.436737	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161954	-95.436724	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161952	-95.436710	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161952	-95.436700	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161951	-95.436690	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161945	-95.436678	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161944	-95.436675	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161943	-95.436665	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161945	-95.436643	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161949	-95.436638	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161942	-95.436624	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161944	-95.436621	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161942	-95.436605	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161942	-95.436593	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161947	-95.436581	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161944	-95.436565	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161957	-95.436565	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161959	-95.436547	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161953	-95.436535	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161950	-95.436509	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161967	-95.436511	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.161974	-95.436503	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161968	-95.436501	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161966	-95.436475	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161956	-95.436458	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161968	-95.436453	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161964	-95.436436	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161950	-95.436439	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161954	-95.436419	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161959	-95.436400	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161960	-95.436382	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161963	-95.436363	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161965	-95.436350	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161955	-95.436351	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161951	-95.436339	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161947	-95.436306	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161950	-95.436298	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161954	-95.436293	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161955	-95.436288	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161956	-95.436284	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161958	-95.436281	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161960	-95.436276	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161962	-95.436273	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161965	-95.436271	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161965	-95.436266	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161966	-95.436262	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161958	-95.436249	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161958	-95.436247	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161962	-95.436246	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161977	-95.436253	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161974	-95.436250	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161975	-95.436250	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161968	-95.436229	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161964	-95.436235	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161965	-95.436232	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161965	-95.436228	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.161965	-95.436227	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161967	-95.436227	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161962	-95.436209	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161955	-95.436207	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161954	-95.436206	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161954	-95.436204	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161955	-95.436202	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161953	-95.436208	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161958	-95.436201	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161953	-95.436194	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161958	-95.436178	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161962	-95.436163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161963	-95.436157	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161970	-95.436150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161957	-95.436142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161956	-95.436132	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161950	-95.436116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161961	-95.436096	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161963	-95.436091	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161963	-95.436085	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161962	-95.436079	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161953	-95.436080	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161960	-95.436073	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161952	-95.436072	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161950	-95.436045	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161949	-95.436031	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161948	-95.436031	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161947	-95.436023	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161937	-95.436025	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161941	-95.436017	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161937	-95.436023	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161938	-95.436018	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161947	-95.435992	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161946	-95.435985	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161953	-95.435981	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.161951	-95.435952	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161952	-95.435933	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161953	-95.435929	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161956	-95.435927	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161962	-95.435922	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161965	-95.435918	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161963	-95.435906	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161958	-95.435899	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161954	-95.435896	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161951	-95.435891	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161941	-95.435878	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161946	-95.435873	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161945	-95.435867	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161947	-95.435851	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161946	-95.435845	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161943	-95.435830	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161939	-95.435832	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161944	-95.435823	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161954	-95.435828	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161951	-95.435807	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161949	-95.435800	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161958	-95.435788	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161957	-95.435785	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161961	-95.435770	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161966	-95.435768	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161970	-95.435766	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161971	-95.435760	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161962	-95.435755	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161967	-95.435740	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161973	-95.435724	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161973	-95.435712	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161970	-95.435702	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161970	-95.435703	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161968	-95.435714	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161968	-95.435695	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.161968	-95.435679	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161965	-95.435666	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161975	-95.435660	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161976	-95.435657	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161973	-95.435649	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161978	-95.435632	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161985	-95.435622	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161988	-95.435615	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161992	-95.435612	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161993	-95.435595	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.435585	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161995	-95.435572	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161981	-95.435571	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161989	-95.435563	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161985	-95.435556	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161987	-95.435555	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161986	-95.435536	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161986	-95.435528	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161980	-95.435514	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161982	-95.435499	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161995	-95.435489	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161985	-95.435478	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161971	-95.435469	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161971	-95.435471	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161975	-95.435470	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161976	-95.435470	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161975	-95.435465	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161975	-95.435464	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161979	-95.435440	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161980	-95.435430	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161981	-95.435419	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161981	-95.435411	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161981	-95.435401	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161982	-95.435382	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161982	-95.435374	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.161982	-95.435365	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161982	-95.435356	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161982	-95.435347	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161982	-95.435337	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161981	-95.435312	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161980	-95.435305	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161979	-95.435296	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161976	-95.435290	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161975	-95.435282	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161977	-95.435274	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161978	-95.435261	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161979	-95.435254	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161979	-95.435243	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161982	-95.435235	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161982	-95.435226	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161982	-95.435218	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161980	-95.435210	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161981	-95.435200	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161981	-95.435191	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161981	-95.435181	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161982	-95.435172	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161983	-95.435160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161983	-95.435151	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161982	-95.435142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161983	-95.435128	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161983	-95.435117	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161982	-95.435106	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161984	-95.435095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161984	-95.435084	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161985	-95.435073	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161983	-95.435065	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161985	-95.435056	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161987	-95.435053	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161995	-95.435048	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162002	-95.435043	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162009	-95.435037	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162011	-95.435027	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162004	-95.435024	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162000	-95.435022	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161999	-95.435014	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161998	-95.435010	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161990	-95.434986	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162001	-95.434980	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161995	-95.434972	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162004	-95.434960	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.434946	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161995	-95.434932	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161993	-95.434923	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.434914	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161992	-95.434900	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161992	-95.434895	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161994	-95.434885	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161998	-95.434874	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161997	-95.434862	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161993	-95.434849	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161993	-95.434836	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161993	-95.434824	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161991	-95.434813	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.434805	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161999	-95.434798	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162005	-95.434789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162003	-95.434777	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162004	-95.434763	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162005	-95.434754	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162013	-95.434745	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.434733	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162011	-95.434719	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161998	-95.434710	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162001	-95.434706	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161997	-95.434692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.161995	-95.434679	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161995	-95.434657	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162002	-95.434646	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.434639	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.434635	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162000	-95.434629	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161999	-95.434628	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161997	-95.434621	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161999	-95.434610	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.434607	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161992	-95.434596	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161994	-95.434581	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161991	-95.434578	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161985	-95.434561	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161980	-95.434557	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161981	-95.434546	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161980	-95.434537	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161981	-95.434523	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161984	-95.434511	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161987	-95.434497	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161988	-95.434484	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161988	-95.434472	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161989	-95.434465	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161990	-95.434451	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161989	-95.434433	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161990	-95.434422	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161987	-95.434419	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161990	-95.434402	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161995	-95.434407	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161994	-95.434399	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161997	-95.434385	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161995	-95.434373	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162003	-95.434369	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162000	-95.434356	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161999	-95.434341	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.161998	-95.434320	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.434325	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161998	-95.434303	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162002	-95.434286	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161998	-95.434282	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161995	-95.434265	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162009	-95.434244	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162004	-95.434251	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162000	-95.434256	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162002	-95.434247	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.434231	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.434225	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162012	-95.434224	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162007	-95.434226	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162004	-95.434218	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162012	-95.434207	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162011	-95.434202	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.434198	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162001	-95.434194	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162007	-95.434190	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162004	-95.434189	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162005	-95.434185	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162002	-95.434182	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162001	-95.434177	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161999	-95.434174	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.434170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161998	-95.434169	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161995	-95.434167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162000	-95.434169	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161992	-95.434156	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161998	-95.434159	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162003	-95.434160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162004	-95.434155	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162004	-95.434148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.434142	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162002	-95.434137	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162004	-95.434135	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162003	-95.434126	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162009	-95.434128	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162016	-95.434121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.434108	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162012	-95.434104	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.434093	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162012	-95.434082	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162015	-95.434064	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162015	-95.434048	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.434036	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162021	-95.434025	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162015	-95.434031	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162024	-95.434014	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162027	-95.433996	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162032	-95.433982	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162032	-95.433966	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162033	-95.433951	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162019	-95.433947	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162022	-95.433934	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162016	-95.433917	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162004	-95.433912	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162010	-95.433903	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162014	-95.433888	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162011	-95.433862	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162015	-95.433865	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162018	-95.433860	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162012	-95.433836	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162004	-95.433826	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161992	-95.433808	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.433791	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161992	-95.433772	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162009	-95.433765	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.433757	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162011	-95.433740	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162011	-95.433719	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.433713	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162009	-95.433696	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162011	-95.433673	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162007	-95.433667	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162005	-95.433665	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162005	-95.433654	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162004	-95.433644	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162004	-95.433635	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162005	-95.433624	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162004	-95.433620	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.433607	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.433593	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.433582	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.433572	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.433565	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162009	-95.433555	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162009	-95.433544	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162007	-95.433532	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.433520	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.433507	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.433494	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.433481	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162007	-95.433467	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.433452	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.433439	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.433428	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.433418	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162005	-95.433409	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.433397	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162009	-95.433386	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162010	-95.433374	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162013	-95.433364	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162016	-95.433351	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162012	-95.433334	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162011	-95.433318	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.433312	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162004	-95.433302	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162007	-95.433297	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162005	-95.433299	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162010	-95.433303	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162010	-95.433303	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.433300	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.433296	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.433294	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.433290	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162007	-95.433287	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.433279	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162007	-95.433271	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.433265	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162010	-95.433260	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162012	-95.433252	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162015	-95.433243	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162016	-95.433234	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162016	-95.433225	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162017	-95.433218	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162019	-95.433212	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162019	-95.433204	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162018	-95.433196	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162016	-95.433184	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162016	-95.433176	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162016	-95.433167	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162017	-95.433156	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162017	-95.433145	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162017	-95.433137	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162018	-95.433128	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162017	-95.433120	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162019	-95.433110	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162019	-95.433101	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162035	-95.433095	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.433078	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162024	-95.433078	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162026	-95.433063	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162029	-95.433037	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.433023	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162033	-95.433012	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162040	-95.432987	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.432986	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162023	-95.432982	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162011	-95.432969	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.432966	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162002	-95.432950	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.432933	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162005	-95.432919	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162010	-95.432908	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162009	-95.432893	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.432882	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162007	-95.432872	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162014	-95.432859	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162012	-95.432848	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162013	-95.432842	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162015	-95.432833	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162012	-95.432817	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162011	-95.432810	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162018	-95.432793	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162023	-95.432781	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162011	-95.432779	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162010	-95.432774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162020	-95.432764	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162001	-95.432759	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162000	-95.432756	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162002	-95.432740	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162018	-95.432726	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162019	-95.432718	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162015	-95.432708	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162012	-95.432680	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162012	-95.432670	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162020	-95.432682	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162028	-95.432660	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162027	-95.432650	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162030	-95.432647	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162032	-95.432650	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162024	-95.432651	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162027	-95.432646	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162026	-95.432643	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162028	-95.432638	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162032	-95.432631	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162027	-95.432630	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162020	-95.432625	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.432628	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162005	-95.432617	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.432604	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162012	-95.432593	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162005	-95.432605	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162007	-95.432590	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162008	-95.432580	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162011	-95.432571	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162017	-95.432564	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162018	-95.432556	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162026	-95.432537	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162030	-95.432526	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162027	-95.432521	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162024	-95.432507	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162016	-95.432489	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162011	-95.432471	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162014	-95.432468	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162010	-95.432464	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162013	-95.432459	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162020	-95.432441	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162026	-95.432430	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.432412	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.432391	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162046	-95.432372	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162045	-95.432364	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162040	-95.432346	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162045	-95.432354	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162044	-95.432336	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.432325	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162042	-95.432314	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162043	-95.432305	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162043	-95.432283	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162043	-95.432271	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162041	-95.432260	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162040	-95.432250	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162040	-95.432241	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162039	-95.432231	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.432220	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162039	-95.432211	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.432201	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.432190	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.432181	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162039	-95.432172	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.432160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162039	-95.432152	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162040	-95.432148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162048	-95.432052	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162047	-95.432043	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162046	-95.432035	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162044	-95.432026	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162043	-95.432017	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162039	-95.431944	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.431931	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.431916	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162038	-95.431902	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.162037	-95.431888	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162037	-95.431861	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162036	-95.431848	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162035	-95.431836	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162034	-95.431814	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162032	-95.431802	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162024	-95.431740	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162021	-95.431736	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162023	-95.431722	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162012	-95.431722	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162009	-95.431713	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162006	-95.431705	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162003	-95.431696	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162003	-95.431686	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.162002	-95.431675	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161998	-95.431664	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161996	-95.431655	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161991	-95.431647	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161989	-95.431636	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161987	-95.431630	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161982	-95.431620	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161978	-95.431609	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161976	-95.431601	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161973	-95.431593	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161969	-95.431583	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161967	-95.431575	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161963	-95.431565	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161959	-95.431554	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161954	-95.431544	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161951	-95.431537	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161946	-95.431526	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161941	-95.431515	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161938	-95.431508	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161931	-95.431497	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161926	-95.431488	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.161919	-95.431474	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161916	-95.431469	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161909	-95.431461	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161900	-95.431448	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161894	-95.431440	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161889	-95.431433	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161882	-95.431425	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161875	-95.431416	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161868	-95.431408	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161861	-95.431401	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161855	-95.431395	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161848	-95.431389	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161843	-95.431386	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161837	-95.431381	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161830	-95.431374	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161821	-95.431368	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161811	-95.431358	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161806	-95.431353	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161796	-95.431348	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161788	-95.431342	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161782	-95.431337	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161775	-95.431332	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161766	-95.431326	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161756	-95.431322	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161748	-95.431316	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161740	-95.431310	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161732	-95.431304	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161722	-95.431300	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161711	-95.431295	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161699	-95.431288	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161687	-95.431283	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161677	-95.431279	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161667	-95.431274	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161654	-95.431269	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161644	-95.431265	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.161636	-95.431261	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161624	-95.431256	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161616	-95.431252	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161608	-95.431248	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161599	-95.431243	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161588	-95.431236	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161575	-95.431232	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161567	-95.431228	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161562	-95.431226	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161559	-95.431225	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161559	-95.431225	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161566	-95.431217	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161553	-95.431219	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161541	-95.431223	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161531	-95.431214	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161526	-95.431212	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161523	-95.431212	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161516	-95.431208	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161509	-95.431205	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161500	-95.431201	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161494	-95.431195	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161486	-95.431193	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161475	-95.431190	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161465	-95.431186	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161455	-95.431182	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161446	-95.431180	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161438	-95.431178	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161426	-95.431174	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161415	-95.431170	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161405	-95.431168	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161395	-95.431165	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161385	-95.431162	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161376	-95.431163	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161365	-95.431160	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161354	-95.431157	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.161344	-95.431154	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161329	-95.431144	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161324	-95.431150	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161313	-95.431148	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161298	-95.431138	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161292	-95.431141	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161280	-95.431139	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161267	-95.431133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161265	-95.431137	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161262	-95.431136	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161265	-95.431134	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161266	-95.431133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161263	-95.431133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161259	-95.431135	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161254	-95.431135	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161250	-95.431136	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161246	-95.431136	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161244	-95.431136	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161239	-95.431136	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161235	-95.431135	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161231	-95.431135	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161228	-95.431133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161223	-95.431133	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161223	-95.431132	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161219	-95.431132	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161213	-95.431130	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161206	-95.431128	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161201	-95.431127	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161196	-95.431125	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161191	-95.431124	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161184	-95.431123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161179	-95.431123	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161175	-95.431121	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161174	-95.431120	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161168	-95.431119	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.161162	-95.431118	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161157	-95.431116	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161152	-95.431113	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161135	-95.431102	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161118	-95.431101	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161129	-95.431102	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161119	-95.431103	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161126	-95.431101	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161112	-95.431089	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161108	-95.431094	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161102	-95.431091	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161092	-95.431089	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161084	-95.431087	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161073	-95.431081	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161064	-95.431082	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161055	-95.431076	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161046	-95.431071	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161037	-95.431071	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161027	-95.431066	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161018	-95.431063	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.161011	-95.431063	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160992	-95.431059	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160988	-95.431061	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160986	-95.431055	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160970	-95.431053	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160960	-95.431050	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160951	-95.431044	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160941	-95.431044	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160933	-95.431040	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160926	-95.431038	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160917	-95.431026	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160919	-95.431022	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160896	-95.431021	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160881	-95.431021	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160869	-95.431018	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.160859	-95.431011	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160848	-95.431018	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160844	-95.431028	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160835	-95.431021	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160824	-95.431013	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160812	-95.431008	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160800	-95.430996	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160788	-95.430990	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160779	-95.430986	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160773	-95.431000	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160773	-95.431002	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160762	-95.430996	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160748	-95.430989	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160730	-95.430975	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160719	-95.430966	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160708	-95.430971	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160699	-95.430965	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160690	-95.430965	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160677	-95.430969	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160667	-95.430972	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160659	-95.430958	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160637	-95.430949	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160632	-95.430967	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160628	-95.430972	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160616	-95.430980	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160628	-95.430969	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160621	-95.430973	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160621	-95.430980	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160627	-95.430971	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160619	-95.430972	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160623	-95.430982	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160625	-95.430982	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160623	-95.430976	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160607	-95.430979	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160606	-95.430983	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.160606	-95.430982	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160606	-95.430981	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160603	-95.430977	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160600	-95.430972	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160596	-95.430972	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160593	-95.430968	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160585	-95.430961	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160574	-95.430959	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160564	-95.430958	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160554	-95.430957	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160544	-95.430953	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160535	-95.430949	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160524	-95.430943	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160516	-95.430936	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160507	-95.430928	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160496	-95.430922	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160484	-95.430917	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160475	-95.430913	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160464	-95.430906	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160453	-95.430899	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160438	-95.430897	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160430	-95.430894	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160417	-95.430893	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160404	-95.430892	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160386	-95.430891	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160373	-95.430894	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160361	-95.430894	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160348	-95.430891	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160335	-95.430886	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160322	-95.430884	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160312	-95.430886	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160298	-95.430880	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160293	-95.430893	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160275	-95.430877	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160266	-95.430876	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.160253	-95.430879	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160248	-95.430880	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160241	-95.430883	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160238	-95.430884	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160232	-95.430882	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160220	-95.430880	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160208	-95.430878	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160197	-95.430876	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160183	-95.430873	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160170	-95.430870	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160160	-95.430870	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160145	-95.430864	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160135	-95.430858	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160125	-95.430852	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160114	-95.430848	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160094	-95.430846	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160104	-95.430852	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160100	-95.430852	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160090	-95.430852	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160078	-95.430854	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160064	-95.430856	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160054	-95.430855	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160040	-95.430855	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160026	-95.430854	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160013	-95.430852	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.160000	-95.430849	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159986	-95.430846	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159974	-95.430842	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159963	-95.430841	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159952	-95.430840	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159940	-95.430841	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159932	-95.430837	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159919	-95.430838	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159904	-95.430841	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159891	-95.430842	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.159878	-95.430842	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159864	-95.430841	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159851	-95.430841	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159836	-95.430840	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159826	-95.430839	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159815	-95.430835	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159810	-95.430826	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159797	-95.430824	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159788	-95.430822	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159780	-95.430819	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159768	-95.430816	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159756	-95.430823	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159748	-95.430827	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159741	-95.430832	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159725	-95.430835	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159717	-95.430837	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159675	-95.430834	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159663	-95.430836	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159652	-95.430835	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159642	-95.430833	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159628	-95.430834	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159614	-95.430838	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159601	-95.430839	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159589	-95.430837	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159577	-95.430838	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159565	-95.430839	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159554	-95.430840	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159544	-95.430840	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159534	-95.430840	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159523	-95.430840	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159514	-95.430839	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159507	-95.430837	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159500	-95.430858	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159505	-95.430856	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159509	-95.430851	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.159503	-95.430844	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159488	-95.430853	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159488	-95.430854	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159487	-95.430853	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159485	-95.430851	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159477	-95.430848	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159467	-95.430847	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159458	-95.430846	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159450	-95.430845	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159441	-95.430842	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159430	-95.430837	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159421	-95.430832	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159411	-95.430825	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159398	-95.430818	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159383	-95.430815	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159371	-95.430814	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159357	-95.430813	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159344	-95.430813	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159332	-95.430813	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159318	-95.430815	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159306	-95.430816	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159294	-95.430817	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159283	-95.430817	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159272	-95.430817	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159261	-95.430817	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159248	-95.430817	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159238	-95.430818	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159229	-95.430820	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159222	-95.430819	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159211	-95.430820	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159200	-95.430823	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159189	-95.430824	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159177	-95.430824	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159165	-95.430824	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159155	-95.430822	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.159143	-95.430821	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159134	-95.430818	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159124	-95.430815	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159111	-95.430818	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159101	-95.430823	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159090	-95.430822	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159077	-95.430821	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159066	-95.430819	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159056	-95.430814	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159042	-95.430811	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159020	-95.430814	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159011	-95.430816	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.159002	-95.430811	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158988	-95.430812	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158977	-95.430812	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158968	-95.430813	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158957	-95.430805	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158946	-95.430800	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158937	-95.430797	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158925	-95.430797	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158907	-95.430795	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158899	-95.430792	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158888	-95.430793	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158879	-95.430793	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158873	-95.430795	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158865	-95.430793	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158854	-95.430792	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158843	-95.430791	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158833	-95.430788	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158824	-95.430787	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158815	-95.430789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158810	-95.430790	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158806	-95.430792	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158800	-95.430796	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158791	-95.430801	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.158785	-95.430801	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158781	-95.430806	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158778	-95.430815	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158780	-95.430821	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158776	-95.430833	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158767	-95.430839	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158758	-95.430837	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158755	-95.430835	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158750	-95.430834	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158743	-95.430830	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158739	-95.430829	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158735	-95.430830	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158724	-95.430823	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158729	-95.430829	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158720	-95.430826	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158710	-95.430825	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158700	-95.430831	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158693	-95.430828	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158678	-95.430818	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158671	-95.430816	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158659	-95.430810	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158644	-95.430808	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158640	-95.430787	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158639	-95.430805	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158627	-95.430812	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158620	-95.430815	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158608	-95.430804	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158598	-95.430816	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158593	-95.430821	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158587	-95.430820	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158585	-95.430815	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158573	-95.430811	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158557	-95.430805	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158553	-95.430804	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158552	-95.430808	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.158542	-95.430804	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158533	-95.430801	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158528	-95.430796	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158521	-95.430792	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158515	-95.430786	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158507	-95.430784	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158497	-95.430782	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158488	-95.430780	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158480	-95.430779	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158470	-95.430779	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158460	-95.430781	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158455	-95.430791	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158449	-95.430799	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158437	-95.430802	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158430	-95.430802	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158421	-95.430803	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158412	-95.430802	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158404	-95.430801	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158396	-95.430802	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158385	-95.430803	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158376	-95.430802	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158367	-95.430802	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158358	-95.430801	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158348	-95.430802	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158337	-95.430802	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158327	-95.430801	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158317	-95.430799	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158312	-95.430794	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158301	-95.430791	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158291	-95.430788	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158280	-95.430785	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158271	-95.430783	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158261	-95.430781	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158249	-95.430780	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158237	-95.430779	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.158225	-95.430777	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158216	-95.430774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158206	-95.430769	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158181	-95.430760	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158166	-95.430761	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158157	-95.430760	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158145	-95.430758	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158134	-95.430755	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158124	-95.430754	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158101	-95.430764	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158078	-95.430773	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158066	-95.430776	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158055	-95.430776	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158045	-95.430771	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158034	-95.430767	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158024	-95.430764	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158015	-95.430761	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.158005	-95.430758	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157994	-95.430757	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157988	-95.430759	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157984	-95.430779	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157980	-95.430785	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157976	-95.430784	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157970	-95.430782	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157961	-95.430785	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157950	-95.430784	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157941	-95.430789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157930	-95.430791	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157917	-95.430792	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157910	-95.430793	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157898	-95.430796	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157887	-95.430795	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157875	-95.430798	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157864	-95.430801	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157854	-95.430803	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.157845	-95.430809	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157835	-95.430812	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157826	-95.430812	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157816	-95.430811	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157807	-95.430809	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157797	-95.430811	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157791	-95.430810	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157779	-95.430808	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157771	-95.430804	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157758	-95.430799	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157742	-95.430792	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157731	-95.430786	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157721	-95.430782	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157711	-95.430777	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157700	-95.430772	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157690	-95.430767	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157679	-95.430763	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157667	-95.430760	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157656	-95.430758	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157643	-95.430756	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157629	-95.430758	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157616	-95.430758	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157605	-95.430758	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157593	-95.430756	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157582	-95.430756	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157569	-95.430754	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157557	-95.430754	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157545	-95.430753	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157534	-95.430752	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157523	-95.430750	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157515	-95.430744	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157502	-95.430744	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157490	-95.430748	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157481	-95.430749	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157470	-95.430750	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.157457	-95.430753	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157445	-95.430755	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157434	-95.430755	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157422	-95.430754	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157412	-95.430752	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157402	-95.430747	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157394	-95.430740	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157389	-95.430735	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157381	-95.430730	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157371	-95.430730	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157361	-95.430734	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157348	-95.430740	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157337	-95.430741	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157330	-95.430742	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157318	-95.430747	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157308	-95.430751	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157296	-95.430751	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157284	-95.430752	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157283	-95.430755	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157269	-95.430757	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157260	-95.430758	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157246	-95.430758	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157223	-95.430752	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157227	-95.430760	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157220	-95.430763	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157212	-95.430765	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157206	-95.430764	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157203	-95.430770	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157210	-95.430783	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157215	-95.430790	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157221	-95.430801	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157226	-95.430807	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157231	-95.430816	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157235	-95.430825	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157235	-95.430836	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.157230	-95.430842	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157223	-95.430850	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157215	-95.430857	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157216	-95.430865	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157215	-95.430873	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157203	-95.430869	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157195	-95.430855	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157193	-95.430847	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157195	-95.430835	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157196	-95.430825	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157193	-95.430813	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157183	-95.430818	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157172	-95.430805	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157171	-95.430789	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157165	-95.430780	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157157	-95.430776	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157156	-95.430763	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157150	-95.430763	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157149	-95.430746	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157150	-95.430737	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157142	-95.430727	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157131	-95.430728	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157122	-95.430728	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157119	-95.430725	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157107	-95.430715	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157098	-95.430717	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157088	-95.430714	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157087	-95.430723	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157078	-95.430726	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157065	-95.430737	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157057	-95.430732	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157041	-95.430732	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157033	-95.430734	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157024	-95.430747	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157017	-95.430750	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.157009	-95.430758	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.157000	-95.430763	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156992	-95.430757	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156980	-95.430759	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156976	-95.430760	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156969	-95.430760	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156962	-95.430760	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156957	-95.430761	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156951	-95.430761	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156950	-95.430760	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156950	-95.430760	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156946	-95.430761	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156939	-95.430761	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156932	-95.430760	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156925	-95.430761	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156916	-95.430764	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156908	-95.430766	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156901	-95.430766	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156894	-95.430772	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156886	-95.430774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156880	-95.430774	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156872	-95.430775	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156863	-95.430777	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156855	-95.430777	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156844	-95.430778	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156834	-95.430777	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156824	-95.430776	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156813	-95.430771	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156802	-95.430768	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156790	-95.430765	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156781	-95.430762	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156772	-95.430760	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156767	-95.430756	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156764	-95.430750	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156760	-95.430744	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.156751	-95.430741	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156739	-95.430745	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156732	-95.430743	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156726	-95.430738	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156716	-95.430736	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156706	-95.430737	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156698	-95.430735	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156688	-95.430736	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156679	-95.430738	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156672	-95.430739	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156662	-95.430739	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156654	-95.430739	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156647	-95.430743	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156648	-95.430747	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156647	-95.430744	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156646	-95.430746	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156638	-95.430746	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156628	-95.430744	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156618	-95.430744	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156607	-95.430745	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156596	-95.430745	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156587	-95.430744	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156577	-95.430743	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156567	-95.430742	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156558	-95.430739	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156549	-95.430733	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156544	-95.430728	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156535	-95.430722	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156521	-95.430720	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156510	-95.430719	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156499	-95.430715	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156489	-95.430710	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156479	-95.430707	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156469	-95.430698	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156461	-95.430692	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW

	NAD 1983									
			Max PDOP						Number	Initials of
Feature	Latitude	Longitude	(6 or less)	Processing Type	Device	Date	Time	Precision	Satellites	collector
Channel III-C	30.156455	-95.430684	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156451	-95.430677	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156449	-95.430667	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156450	-95.430657	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156446	-95.430652	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156451	-95.430651	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156447	-95.430655	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156447	-95.430655	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156445	-95.430655	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156447	-95.430655	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156446	-95.430654	6	Real-time SBAS Corrected	Geo 7X (H-Star)	11/18/2020	12:13:24pm	0.5	6+	PW
Channel III-C	30.156242	-95.430625	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156242	-95.430625	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156242	-95.430625	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156242	-95.430625	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156241	-95.430626	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156242	-95.430626	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156241	-95.430626	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156241	-95.430628	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156243	-95.430626	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156242	-95.430628	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156242	-95.430628	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156242	-95.430629	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156243	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156243	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156242	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156242	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156242	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156242	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156242	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156242	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156242	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156242	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156243	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156243	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156243	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156243	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156243	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156243	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156243	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156243	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156243	-95.430624	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW

[illegible]

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.156163	-95.430647	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156157	-95.430649	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156152	-95.430652	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156143	-95.430654	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156136	-95.430656	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156129	-95.430655	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156123	-95.430655	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156117	-95.430656	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156112	-95.430654	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156110	-95.430653	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156102	-95.430655	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156097	-95.430654	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156094	-95.430653	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156093	-95.430655	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156082	-95.430656	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156076	-95.430657	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156071	-95.430657	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156068	-95.430657	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156062	-95.430644	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156050	-95.430639	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156044	-95.430647	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156040	-95.430652	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156026	-95.430647	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156013	-95.430653	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156015	-95.430643	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156010	-95.430653	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.156001	-95.430651	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155992	-95.430643	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155996	-95.430654	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155994	-95.430658	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155988	-95.430655	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155984	-95.430656	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155977	-95.430656	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155969	-95.430657	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155961	-95.430657	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.155952	-95.430659	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155946	-95.430660	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155939	-95.430661	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155929	-95.430662	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155921	-95.430663	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155913	-95.430663	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155903	-95.430663	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155901	-95.430656	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155896	-95.430660	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155882	-95.430656	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155876	-95.430651	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155864	-95.430655	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155854	-95.430653	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155847	-95.430662	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155840	-95.430654	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155834	-95.430654	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155830	-95.430658	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155817	-95.430654	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155807	-95.430663	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155794	-95.430662	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155776	-95.430661	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155760	-95.430673	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155755	-95.430666	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155753	-95.430658	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155748	-95.430655	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155744	-95.430654	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155734	-95.430662	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155724	-95.430662	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155716	-95.430661	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155705	-95.430661	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155695	-95.430659	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155684	-95.430657	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155674	-95.430656	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155662	-95.430656	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155651	-95.430655	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.155640	-95.430663	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155629	-95.430662	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155622	-95.430661	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155611	-95.430661	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155603	-95.430656	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155592	-95.430655	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155578	-95.430654	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155564	-95.430654	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155564	-95.430640	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155559	-95.430636	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155540	-95.430642	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155531	-95.430639	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155522	-95.430635	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155513	-95.430637	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155505	-95.430640	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155491	-95.430634	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155475	-95.430639	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155460	-95.430643	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155449	-95.430644	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155437	-95.430642	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155425	-95.430642	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155415	-95.430640	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155403	-95.430638	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155397	-95.430642	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155386	-95.430641	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155377	-95.430641	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155365	-95.430641	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155354	-95.430642	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155342	-95.430641	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155330	-95.430639	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155320	-95.430636	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155307	-95.430634	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155296	-95.430634	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155285	-95.430633	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155273	-95.430631	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.155262	-95.430627	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155252	-95.430623	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155241	-95.430618	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155231	-95.430613	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155222	-95.430610	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155210	-95.430606	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155201	-95.430600	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155192	-95.430594	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155184	-95.430588	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155176	-95.430581	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155166	-95.430582	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155151	-95.430573	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155141	-95.430573	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155130	-95.430564	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155118	-95.430554	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155108	-95.430545	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155099	-95.430536	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155091	-95.430530	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155082	-95.430521	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155074	-95.430514	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155066	-95.430505	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155058	-95.430497	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155050	-95.430489	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155044	-95.430483	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155038	-95.430478	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155032	-95.430475	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155025	-95.430469	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155015	-95.430464	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.155005	-95.430455	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154997	-95.430448	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154990	-95.430441	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154980	-95.430434	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154969	-95.430425	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154954	-95.430425	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154944	-95.430416	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.154938	-95.430399	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154929	-95.430388	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154926	-95.430373	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154915	-95.430374	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154907	-95.430374	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154900	-95.430368	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154906	-95.430373	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154900	-95.430367	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154894	-95.430354	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154887	-95.430348	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154876	-95.430336	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154867	-95.430325	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154869	-95.430333	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154856	-95.430316	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154850	-95.430303	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154845	-95.430303	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154841	-95.430305	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154833	-95.430298	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154824	-95.430292	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154816	-95.430282	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154812	-95.430277	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154808	-95.430273	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154804	-95.430272	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154799	-95.430271	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154795	-95.430263	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154788	-95.430254	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154780	-95.430249	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154784	-95.430236	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154766	-95.430235	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154758	-95.430227	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154748	-95.430217	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154751	-95.430206	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154752	-95.430202	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154744	-95.430203	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154735	-95.430198	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.154729	-95.430196	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154723	-95.430179	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154716	-95.430175	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154707	-95.430162	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154694	-95.430158	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154691	-95.430155	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154687	-95.430138	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154672	-95.430129	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154659	-95.430125	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154647	-95.430127	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154649	-95.430121	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154639	-95.430118	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154625	-95.430118	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154617	-95.430113	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154606	-95.430105	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154597	-95.430096	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154583	-95.430095	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154582	-95.430093	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154569	-95.430087	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154562	-95.430072	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154569	-95.430069	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154576	-95.430062	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154578	-95.430071	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154571	-95.430075	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154559	-95.430077	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154548	-95.430067	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154536	-95.430064	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154527	-95.430069	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154523	-95.430059	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154512	-95.430069	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154502	-95.430067	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154493	-95.430060	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154488	-95.430070	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154484	-95.430067	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154470	-95.430060	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.154462	-95.430060	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154457	-95.430058	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154458	-95.430044	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154444	-95.430040	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154426	-95.430043	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154417	-95.430039	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154409	-95.430027	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154406	-95.430036	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154390	-95.430030	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154387	-95.430034	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154380	-95.430025	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154379	-95.430016	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154370	-95.430010	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154361	-95.430001	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154353	-95.430009	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154350	-95.430014	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154341	-95.430022	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154344	-95.430014	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154335	-95.430005	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154329	-95.430024	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154324	-95.430023	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154319	-95.430021	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154315	-95.430022	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154312	-95.430020	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154311	-95.430017	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154306	-95.430016	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154299	-95.430013	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154294	-95.430013	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154286	-95.430010	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154278	-95.430007	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154265	-95.430007	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154257	-95.430004	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154245	-95.430001	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154241	-95.430010	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154215	-95.430019	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.154207	-95.430022	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154195	-95.430028	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154187	-95.430032	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154178	-95.430031	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154174	-95.430029	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154161	-95.430032	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154151	-95.430032	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154141	-95.430029	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154132	-95.430026	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154124	-95.430022	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154116	-95.430019	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154110	-95.430018	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154102	-95.430015	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154095	-95.430009	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154090	-95.430003	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154085	-95.429996	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154077	-95.429995	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154071	-95.429993	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154062	-95.429994	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154054	-95.429993	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154045	-95.429995	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154039	-95.429999	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154036	-95.430002	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154033	-95.430007	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154032	-95.430008	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154030	-95.430016	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154029	-95.430021	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154032	-95.430024	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154022	-95.430031	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154016	-95.430033	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154010	-95.430034	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.154004	-95.430032	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153999	-95.430033	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153992	-95.430034	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153982	-95.430030	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.153974	-95.430030	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153966	-95.430028	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153958	-95.430024	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153951	-95.430017	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153930	-95.429991	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153922	-95.429986	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153914	-95.429984	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153904	-95.429982	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153893	-95.429979	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153883	-95.429973	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153875	-95.429964	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153870	-95.429954	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153868	-95.429945	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153866	-95.429935	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153866	-95.429929	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153865	-95.429924	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153862	-95.429916	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153856	-95.429910	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153855	-95.429908	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153853	-95.429905	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153851	-95.429902	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153852	-95.429903	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153852	-95.429903	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153852	-95.429902	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153851	-95.429901	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153851	-95.429903	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153851	-95.429902	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153851	-95.429901	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153851	-95.429902	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153852	-95.429903	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153851	-95.429904	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153848	-95.429900	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153846	-95.429895	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153844	-95.429891	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153844	-95.429886	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.153842	-95.429887	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153842	-95.429887	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153841	-95.429889	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153840	-95.429887	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153840	-95.429885	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153840	-95.429884	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153839	-95.429881	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153840	-95.429879	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153840	-95.429877	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153841	-95.429875	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153839	-95.429873	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153839	-95.429870	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153838	-95.429870	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153838	-95.429870	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153837	-95.429868	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153836	-95.429867	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153835	-95.429868	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153837	-95.429868	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153835	-95.429866	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153832	-95.429866	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153832	-95.429865	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153830	-95.429863	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153829	-95.429863	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153828	-95.429862	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153826	-95.429862	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153823	-95.429857	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153817	-95.429853	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153812	-95.429848	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153807	-95.429846	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153806	-95.429844	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153804	-95.429844	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153800	-95.429835	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153799	-95.429834	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153794	-95.429829	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153789	-95.429828	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.153787	-95.429825	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153783	-95.429820	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153777	-95.429813	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153767	-95.429810	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153761	-95.429809	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153757	-95.429806	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153750	-95.429803	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153746	-95.429798	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153740	-95.429791	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153737	-95.429784	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153731	-95.429775	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153726	-95.429770	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153724	-95.429768	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153720	-95.429762	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153718	-95.429762	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153712	-95.429761	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153708	-95.429757	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153701	-95.429748	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153697	-95.429735	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153693	-95.429727	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153689	-95.429715	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153687	-95.429703	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153684	-95.429692	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153681	-95.429683	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153681	-95.429672	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153677	-95.429665	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153675	-95.429657	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153672	-95.429648	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153670	-95.429639	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153668	-95.429631	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153667	-95.429622	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153666	-95.429615	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153665	-95.429611	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153664	-95.429607	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153663	-95.429599	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.153660	-95.429592	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153659	-95.429583	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153658	-95.429575	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153658	-95.429567	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153657	-95.429558	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153656	-95.429552	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153653	-95.429543	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153650	-95.429534	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153645	-95.429522	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153643	-95.429512	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153641	-95.429503	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153640	-95.429494	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153638	-95.429480	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153637	-95.429471	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153634	-95.429462	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153632	-95.429452	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153630	-95.429443	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153628	-95.429433	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153628	-95.429424	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153626	-95.429422	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153627	-95.429406	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153626	-95.429396	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153626	-95.429391	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153625	-95.429372	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153643	-95.429377	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153637	-95.429390	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153633	-95.429374	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153624	-95.429377	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153609	-95.429397	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153605	-95.429375	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153603	-95.429364	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153610	-95.429355	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153611	-95.429338	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153614	-95.429326	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153613	-95.429326	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.153613	-95.429323	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153613	-95.429315	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153612	-95.429306	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153600	-95.429306	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153599	-95.429292	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153597	-95.429278	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153594	-95.429269	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153592	-95.429257	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153602	-95.429238	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153600	-95.429224	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153599	-95.429213	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153599	-95.429201	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153597	-95.429190	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153599	-95.429176	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153599	-95.429161	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153601	-95.429149	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153601	-95.429138	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153602	-95.429132	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153603	-95.429121	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153602	-95.429114	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153602	-95.429105	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153599	-95.429092	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153604	-95.429081	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153600	-95.429069	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153603	-95.429059	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153600	-95.429048	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153598	-95.429037	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153597	-95.429024	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153605	-95.429020	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153603	-95.429011	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153603	-95.429000	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153601	-95.428991	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153600	-95.428980	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153600	-95.428971	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153599	-95.428960	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.153597	-95.428951	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153595	-95.428940	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153594	-95.428930	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153593	-95.428921	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153595	-95.428909	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153584	-95.428899	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153593	-95.428890	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153598	-95.428879	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153597	-95.428859	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153611	-95.428857	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153607	-95.428840	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153616	-95.428838	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153613	-95.428821	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153610	-95.428807	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153598	-95.428791	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153606	-95.428782	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153605	-95.428773	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153605	-95.428756	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153603	-95.428741	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153599	-95.428729	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153606	-95.428726	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153613	-95.428724	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153610	-95.428712	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153607	-95.428701	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153611	-95.428695	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153605	-95.428678	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153605	-95.428663	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153607	-95.428654	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153610	-95.428641	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153614	-95.428629	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153610	-95.428617	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153609	-95.428602	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153607	-95.428590	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153607	-95.428575	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153608	-95.428562	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.153609	-95.428552	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153607	-95.428546	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153610	-95.428535	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153604	-95.428524	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153606	-95.428509	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153601	-95.428496	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153593	-95.428486	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153589	-95.428478	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153599	-95.428468	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153601	-95.428462	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153596	-95.428451	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153590	-95.428440	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153585	-95.428429	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153582	-95.428417	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153580	-95.428405	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153576	-95.428395	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153575	-95.428383	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153575	-95.428376	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153573	-95.428353	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153565	-95.428334	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153565	-95.428320	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153575	-95.428312	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153582	-95.428305	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153583	-95.428305	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153584	-95.428294	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153587	-95.428284	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153591	-95.428269	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153590	-95.428252	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153585	-95.428238	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153583	-95.428224	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153578	-95.428211	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153576	-95.428198	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153570	-95.428194	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153568	-95.428181	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153547	-95.428165	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.153543	-95.428151	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153541	-95.428139	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153536	-95.428126	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153531	-95.428116	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153527	-95.428103	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153522	-95.428091	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153519	-95.428079	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153514	-95.428066	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153511	-95.428055	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153492	-95.428012	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153485	-95.428000	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153478	-95.427991	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153472	-95.427980	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153467	-95.427970	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153459	-95.427961	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153452	-95.427950	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153445	-95.427941	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153437	-95.427930	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153430	-95.427920	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153421	-95.427912	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153412	-95.427903	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153403	-95.427894	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153398	-95.427887	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153395	-95.427882	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153392	-95.427877	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153389	-95.427873	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153382	-95.427868	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153374	-95.427860	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153366	-95.427854	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153359	-95.427850	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153351	-95.427843	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153342	-95.427828	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153320	-95.427827	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153309	-95.427820	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153308	-95.427808	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.153292	-95.427808	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153283	-95.427792	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153277	-95.427792	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153267	-95.427788	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153266	-95.427783	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153255	-95.427780	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153247	-95.427774	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153238	-95.427768	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153232	-95.427768	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153224	-95.427763	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153212	-95.427757	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153199	-95.427740	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153193	-95.427734	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153187	-95.427740	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153190	-95.427728	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153178	-95.427723	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153173	-95.427727	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153177	-95.427728	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153178	-95.427726	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153178	-95.427728	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153171	-95.427726	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153165	-95.427727	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153160	-95.427725	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153159	-95.427727	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153160	-95.427734	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153157	-95.427727	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153154	-95.427728	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153151	-95.427727	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153146	-95.427726	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153144	-95.427725	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153141	-95.427723	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153141	-95.427722	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153141	-95.427723	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153141	-95.427722	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153140	-95.427723	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.153123	-95.427719	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153123	-95.427719	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153122	-95.427719	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153121	-95.427720	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153121	-95.427718	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153121	-95.427718	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153120	-95.427716	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153117	-95.427717	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153109	-95.427720	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153104	-95.427725	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153096	-95.427725	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153086	-95.427725	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153078	-95.427725	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153035	-95.427714	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153025	-95.427705	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153021	-95.427711	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153018	-95.427712	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153010	-95.427705	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153010	-95.427705	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153008	-95.427700	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153007	-95.427698	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153007	-95.427698	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153008	-95.427691	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153006	-95.427697	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.153005	-95.427707	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152999	-95.427704	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152994	-95.427701	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152982	-95.427700	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152965	-95.427710	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152955	-95.427712	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152948	-95.427707	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152941	-95.427706	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152946	-95.427692	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152946	-95.427689	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152875	-95.427678	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.152868	-95.427677	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152849	-95.427680	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152846	-95.427681	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152845	-95.427676	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152839	-95.427678	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152839	-95.427675	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152832	-95.427680	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152830	-95.427674	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152826	-95.427679	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152823	-95.427678	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152819	-95.427679	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152812	-95.427680	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152806	-95.427678	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152799	-95.427678	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152787	-95.427678	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152777	-95.427680	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152770	-95.427680	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152766	-95.427682	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152766	-95.427682	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152765	-95.427681	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152760	-95.427679	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152755	-95.427682	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152751	-95.427681	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152750	-95.427680	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152750	-95.427681	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152749	-95.427681	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152745	-95.427679	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152741	-95.427679	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152738	-95.427680	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152735	-95.427680	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152733	-95.427680	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152732	-95.427680	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152731	-95.427680	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152727	-95.427678	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152727	-95.427679	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.152728	-95.427681	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152723	-95.427681	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152678	-95.427685	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152672	-95.427684	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152668	-95.427684	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152665	-95.427683	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152660	-95.427684	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152656	-95.427686	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152651	-95.427687	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152648	-95.427689	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152645	-95.427689	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152643	-95.427692	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152635	-95.427697	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152629	-95.427695	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152629	-95.427696	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152625	-95.427693	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152621	-95.427692	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152619	-95.427692	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152614	-95.427692	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152609	-95.427693	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152608	-95.427694	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152603	-95.427696	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152602	-95.427697	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152601	-95.427698	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152601	-95.427699	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152596	-95.427699	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152596	-95.427698	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152596	-95.427698	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152595	-95.427698	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152528	-95.427716	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152519	-95.427717	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152511	-95.427719	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152505	-95.427720	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152464	-95.427723	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152457	-95.427723	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.152427	-95.427729	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152420	-95.427731	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152410	-95.427734	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152403	-95.427729	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152403	-95.427728	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152401	-95.427729	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152397	-95.427729	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152391	-95.427728	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152384	-95.427729	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152379	-95.427730	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152372	-95.427728	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152366	-95.427727	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152357	-95.427727	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152351	-95.427728	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152343	-95.427730	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152335	-95.427732	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152326	-95.427732	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152317	-95.427732	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152311	-95.427731	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152305	-95.427732	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152297	-95.427732	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152292	-95.427732	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152285	-95.427734	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152277	-95.427735	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152270	-95.427734	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152262	-95.427735	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152253	-95.427736	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152244	-95.427737	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152235	-95.427738	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152230	-95.427742	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152222	-95.427745	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152213	-95.427748	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152201	-95.427747	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152194	-95.427746	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152187	-95.427744	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.152181	-95.427739	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152177	-95.427734	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152177	-95.427733	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152176	-95.427734	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152176	-95.427734	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152176	-95.427732	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152175	-95.427730	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152174	-95.427728	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152170	-95.427725	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152167	-95.427721	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152166	-95.427719	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152161	-95.427715	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152153	-95.427713	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152148	-95.427715	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152143	-95.427715	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152135	-95.427715	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152130	-95.427716	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152125	-95.427716	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152118	-95.427715	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152111	-95.427716	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152104	-95.427717	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152098	-95.427717	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152093	-95.427719	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152093	-95.427720	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152091	-95.427721	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152090	-95.427722	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152089	-95.427722	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152087	-95.427721	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152084	-95.427721	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152083	-95.427720	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152078	-95.427721	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152075	-95.427721	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152071	-95.427722	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152065	-95.427721	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152059	-95.427721	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.152052	-95.427721	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152046	-95.427720	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152037	-95.427720	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152030	-95.427721	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152023	-95.427721	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152015	-95.427721	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152013	-95.427722	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152013	-95.427722	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152015	-95.427724	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152015	-95.427721	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152012	-95.427719	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152012	-95.427720	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152013	-95.427720	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152013	-95.427719	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152013	-95.427719	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152013	-95.427720	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152014	-95.427721	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152013	-95.427724	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152011	-95.427727	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152009	-95.427727	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152007	-95.427725	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152006	-95.427724	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.152001	-95.427723	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151998	-95.427718	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151998	-95.427722	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151997	-95.427724	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151996	-95.427722	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151994	-95.427723	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151993	-95.427724	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151992	-95.427725	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151988	-95.427721	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151982	-95.427721	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151978	-95.427720	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151974	-95.427717	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151970	-95.427716	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.151967	-95.427716	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151966	-95.427715	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151962	-95.427715	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151960	-95.427716	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151956	-95.427713	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151951	-95.427715	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151946	-95.427714	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151938	-95.427713	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151936	-95.427707	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151935	-95.427710	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151932	-95.427711	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151926	-95.427711	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151920	-95.427710	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151917	-95.427710	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151912	-95.427710	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151905	-95.427709	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151901	-95.427708	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151895	-95.427710	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151894	-95.427708	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151895	-95.427707	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151896	-95.427708	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151894	-95.427706	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151894	-95.427706	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151894	-95.427708	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151892	-95.427708	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151888	-95.427709	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151882	-95.427711	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151876	-95.427711	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151871	-95.427712	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151866	-95.427712	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151858	-95.427714	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151851	-95.427716	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151839	-95.427719	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151828	-95.427718	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151745	-95.427737	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.151742	-95.427736	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151738	-95.427734	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151666	-95.427734	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151667	-95.427731	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151671	-95.427722	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151658	-95.427716	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151664	-95.427709	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151673	-95.427704	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151675	-95.427708	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151674	-95.427708	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151675	-95.427707	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151675	-95.427705	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151657	-95.427712	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151664	-95.427712	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151664	-95.427711	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151662	-95.427709	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151656	-95.427709	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151652	-95.427701	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151650	-95.427699	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151633	-95.427686	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151627	-95.427693	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151625	-95.427693	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151622	-95.427694	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151616	-95.427689	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151605	-95.427684	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151608	-95.427680	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151617	-95.427664	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151636	-95.427659	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151649	-95.427659	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151657	-95.427666	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151655	-95.427670	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151657	-95.427673	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151660	-95.427673	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151645	-95.427675	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151643	-95.427680	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-C	30.151631	-95.427675	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151605	-95.427665	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151601	-95.427678	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151590	-95.427685	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151585	-95.427687	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-C	30.151582	-95.427688	5.8	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	11/18/2020	04:55:52pm	0.4	6+	PW
Channel III-D OHWM										
Channel III-D	30.138636	-95.428568	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138636	-95.428568	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138631	-95.428463	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138631	-95.428462	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138631	-95.428462	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138632	-95.428462	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138636	-95.428245	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138637	-95.428245	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138636	-95.428162	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138652	-95.428110	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138652	-95.428110	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138641	-95.428063	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138641	-95.428064	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138640	-95.427955	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138640	-95.427955	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138640	-95.427776	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138640	-95.427776	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138640	-95.427668	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138640	-95.427667	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138640	-95.427668	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138659	-95.427596	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138657	-95.427587	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138655	-95.427578	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138655	-95.427568	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138655	-95.427556	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138658	-95.427546	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138659	-95.427536	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138659	-95.427525	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138658	-95.427513	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138658	-95.427502	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138658	-95.427491	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138658	-95.427482	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138659	-95.427473	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138663	-95.427462	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138669	-95.427454	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138676	-95.427448	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138685	-95.427442	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138694	-95.427439	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138703	-95.427438	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138714	-95.427437	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138722	-95.427436	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138731	-95.427434	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138740	-95.427435	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138749	-95.427436	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138756	-95.427439	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138762	-95.427441	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138771	-95.427441	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138779	-95.427440	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138787	-95.427440	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138795	-95.427439	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138804	-95.427438	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138812	-95.427439	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138678	-95.427349	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138671	-95.427339	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138669	-95.427335	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138666	-95.427330	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138662	-95.427316	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138661	-95.427305	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138666	-95.427298	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138665	-95.427288	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138665	-95.427276	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138666	-95.427264	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138666	-95.427253	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138667	-95.427242	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138667	-95.427231	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138668	-95.427222	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138667	-95.427213	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138666	-95.427204	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138666	-95.427197	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138667	-95.427197	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138674	-95.427035	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138674	-95.427035	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138691	-95.426956	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138691	-95.426955	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138691	-95.426955	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138690	-95.426828	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138688	-95.426830	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138689	-95.426829	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138758	-95.426665	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138758	-95.426665	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138814	-95.426486	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138814	-95.426486	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138859	-95.426339	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138860	-95.426339	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138898	-95.426174	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138898	-95.426174	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138898	-95.426174	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138912	-95.426067	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138912	-95.426068	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138912	-95.426067	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138920	-95.425995	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138921	-95.425996	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138937	-95.425865	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138937	-95.425865	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138943	-95.425767	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138943	-95.425767	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138932	-95.425635	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138932	-95.425635	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138922	-95.425456	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138922	-95.425456	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138912	-95.425380	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138913	-95.425380	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138931	-95.425210	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138931	-95.425210	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138931	-95.425210	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138941	-95.425031	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138940	-95.425028	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138944	-95.424812	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138944	-95.424812	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138965	-95.424713	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138965	-95.424713	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138952	-95.424539	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138952	-95.424538	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138949	-95.424333	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138949	-95.424332	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138949	-95.424332	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138936	-95.424205	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138935	-95.424205	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138934	-95.424202	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138935	-95.424009	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138934	-95.424009	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138914	-95.423868	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138914	-95.423868	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138914	-95.423868	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138906	-95.423749	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138906	-95.423749	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138907	-95.423622	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138907	-95.423622	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138889	-95.423515	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138889	-95.423515	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138893	-95.423381	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138891	-95.423382	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138892	-95.423381	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138899	-95.423232	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138899	-95.423232	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138902	-95.423228	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138903	-95.423228	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138906	-95.423229	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138912	-95.423232	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138918	-95.423236	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138923	-95.423237	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138929	-95.423234	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138931	-95.423228	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138932	-95.423226	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138932	-95.423224	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138934	-95.423218	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138935	-95.423211	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138932	-95.423205	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138925	-95.423199	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138918	-95.423193	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138913	-95.423187	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138911	-95.423184	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138901	-95.423153	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138901	-95.423153	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138903	-95.423069	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138918	-95.422883	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138918	-95.422883	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138924	-95.422720	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138924	-95.422720	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138910	-95.422664	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138910	-95.422664	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138910	-95.422663	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138909	-95.422659	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138911	-95.422651	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138919	-95.422646	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138926	-95.422643	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138932	-95.422638	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138937	-95.422634	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138943	-95.422629	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138947	-95.422621	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138951	-95.422612	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138955	-95.422601	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138957	-95.422591	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138962	-95.422580	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138964	-95.422570	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138964	-95.422562	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138960	-95.422552	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138955	-95.422543	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138951	-95.422534	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138947	-95.422524	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138945	-95.422514	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138941	-95.422505	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138940	-95.422498	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138931	-95.422405	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138931	-95.422405	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138931	-95.422405	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138919	-95.422282	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138918	-95.422282	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138910	-95.422120	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138909	-95.422121	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138897	-95.421912	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138897	-95.421912	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138878	-95.421727	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138876	-95.421727	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138896	-95.421623	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138896	-95.421623	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138935	-95.421590	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138935	-95.421590	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138923	-95.421446	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138924	-95.421446	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138886	-95.421255	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138885	-95.421255	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138879	-95.421162	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138880	-95.421162	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138882	-95.421010	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138890	-95.420874	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138890	-95.420825	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138893	-95.420824	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138897	-95.420818	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138902	-95.420813	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138907	-95.420806	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138909	-95.420799	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138908	-95.420793	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138906	-95.420788	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138902	-95.420786	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138898	-95.420786	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138895	-95.420786	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138886	-95.420771	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138886	-95.420770	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138888	-95.420756	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138885	-95.420736	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138894	-95.420738	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138876	-95.420740	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138866	-95.420728	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138871	-95.420689	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138876	-95.420672	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138880	-95.420663	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138877	-95.420651	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138877	-95.420638	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138883	-95.420623	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138883	-95.420614	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138887	-95.420617	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138888	-95.420615	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138862	-95.420588	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138862	-95.420577	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138856	-95.420753	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138856	-95.420754	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138849	-95.420914	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138849	-95.420913	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138840	-95.421027	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138840	-95.421027	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138838	-95.421027	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138839	-95.421027	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138839	-95.421028	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138830	-95.421223	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138830	-95.421223	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138863	-95.421396	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138863	-95.421395	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138863	-95.421396	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138858	-95.421401	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138869	-95.421540	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138869	-95.421540	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138840	-95.421640	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138841	-95.421641	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138841	-95.421641	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138842	-95.421836	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138843	-95.421835	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138881	-95.422160	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138881	-95.422160	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138890	-95.422353	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138890	-95.422353	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138878	-95.422508	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138878	-95.422508	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138848	-95.422592	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138879	-95.422659	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138879	-95.422659	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138900	-95.422852	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138877	-95.423079	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138878	-95.423079	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138858	-95.423286	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138858	-95.423286	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138849	-95.423501	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138849	-95.423501	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138849	-95.423502	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138877	-95.423831	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138878	-95.423831	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138889	-95.424016	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138890	-95.424014	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138866	-95.424226	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138866	-95.424226	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138885	-95.424491	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138886	-95.424492	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138887	-95.424641	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138887	-95.424642	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138886	-95.424646	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138881	-95.424654	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138877	-95.424664	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138877	-95.424673	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138877	-95.424682	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138880	-95.424693	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138883	-95.424704	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138888	-95.424715	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138891	-95.424725	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138894	-95.424734	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138898	-95.424743	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138901	-95.424751	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138901	-95.424755	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138903	-95.424907	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138905	-95.424912	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138890	-95.425208	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138888	-95.425206	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138885	-95.425527	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138885	-95.425527	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138885	-95.425527	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138877	-95.425754	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138877	-95.425754	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138855	-95.426191	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138856	-95.426191	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138857	-95.426190	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138823	-95.426362	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138823	-95.426362	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138748	-95.426569	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138746	-95.426566	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138684	-95.426775	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138687	-95.426773	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138648	-95.426940	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138648	-95.426940	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138612	-95.427063	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138612	-95.427064	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138608	-95.427152	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138608	-95.427152	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138608	-95.427157	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138607	-95.427163	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138607	-95.427170	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138607	-95.427180	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138606	-95.427190	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138605	-95.427200	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138605	-95.427211	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138605	-95.427221	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138605	-95.427232	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138604	-95.427243	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138604	-95.427253	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138603	-95.427264	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138603	-95.427275	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138602	-95.427285	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138601	-95.427296	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138598	-95.427358	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138599	-95.427369	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138599	-95.427380	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138599	-95.427391	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138599	-95.427402	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138598	-95.427411	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138597	-95.427422	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138596	-95.427433	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138595	-95.427445	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138594	-95.427457	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138594	-95.427467	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138593	-95.427478	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138593	-95.427490	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138591	-95.427501	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138591	-95.427511	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138590	-95.427523	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138590	-95.427535	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138590	-95.427547	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138590	-95.427559	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138590	-95.427571	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138589	-95.427582	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138589	-95.427592	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138589	-95.427602	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138590	-95.427614	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138590	-95.427624	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138590	-95.427635	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138590	-95.427644	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138584	-95.427735	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138582	-95.427738	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138585	-95.428169	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138584	-95.428168	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138579	-95.428388	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.138577	-95.428388	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-D	30.137850	-95.410806	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410806	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137851	-95.410806	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137851	-95.410806	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410806	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410806	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137851	-95.410806	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410806	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.137850	-95.410806	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137851	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137851	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137851	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137851	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137851	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137851	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137851	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137851	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137851	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137851	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137851	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410807	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137852	-95.410897	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137853	-95.411019	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137852	-95.411018	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137848	-95.411154	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137848	-95.411154	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137865	-95.411340	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137865	-95.411340	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137878	-95.411449	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.137878	-95.411449	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137891	-95.411536	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137891	-95.411536	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137868	-95.411592	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137868	-95.411591	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137886	-95.411742	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137886	-95.411742	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137895	-95.411843	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137895	-95.411843	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137884	-95.412002	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137880	-95.412002	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137873	-95.412085	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137873	-95.412085	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137891	-95.412178	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137891	-95.412178	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137888	-95.412288	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137888	-95.412288	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137881	-95.412429	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137881	-95.412429	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137874	-95.412518	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137874	-95.412518	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137881	-95.412603	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137881	-95.412603	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137871	-95.412697	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137871	-95.412696	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137871	-95.412696	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137885	-95.412792	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137885	-95.412792	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137901	-95.412912	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137901	-95.412912	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137905	-95.413089	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137905	-95.413089	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137901	-95.413228	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137901	-95.413228	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137919	-95.413456	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.137919	-95.413456	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137918	-95.413456	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137925	-95.413605	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137925	-95.413605	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137908	-95.413708	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137908	-95.413708	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137886	-95.413933	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137902	-95.414136	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137902	-95.414136	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137913	-95.414231	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137913	-95.414231	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137915	-95.414423	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137891	-95.414599	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137891	-95.414598	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137897	-95.414729	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137897	-95.414729	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137922	-95.414946	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137920	-95.414947	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137921	-95.414948	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137937	-95.415035	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137937	-95.415035	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137924	-95.415136	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137924	-95.415136	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137906	-95.415233	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137906	-95.415233	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137933	-95.415352	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137933	-95.415351	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137954	-95.415639	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137954	-95.415639	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137955	-95.415639	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137930	-95.415785	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137929	-95.415785	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137930	-95.415937	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137929	-95.415937	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137929	-95.416091	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.137929	-95.416090	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137928	-95.416090	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137962	-95.416316	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137960	-95.416315	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137980	-95.416469	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137979	-95.416470	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137970	-95.416694	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137967	-95.416695	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137945	-95.416917	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137944	-95.416917	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137943	-95.417113	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137943	-95.417113	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137943	-95.417113	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137943	-95.417113	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137959	-95.417139	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137957	-95.417146	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137957	-95.417154	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137959	-95.417164	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137960	-95.417173	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137961	-95.417182	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137962	-95.417191	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137964	-95.417200	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137966	-95.417210	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137969	-95.417219	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137972	-95.417228	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137975	-95.417237	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137979	-95.417248	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137981	-95.417259	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137983	-95.417270	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137987	-95.417280	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137991	-95.417291	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137993	-95.417300	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137996	-95.417309	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137999	-95.417319	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138002	-95.417329	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138006	-95.417337	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138009	-95.417346	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138013	-95.417356	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138014	-95.417367	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138017	-95.417377	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138021	-95.417385	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138027	-95.417393	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138031	-95.417400	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138035	-95.417407	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138040	-95.417414	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138045	-95.417420	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138050	-95.417424	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138054	-95.417427	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138060	-95.417432	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138061	-95.417438	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138062	-95.417445	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138064	-95.417453	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138068	-95.417462	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138072	-95.417470	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138077	-95.417478	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138081	-95.417486	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138086	-95.417494	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138092	-95.417502	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138097	-95.417510	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138103	-95.417519	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138109	-95.417526	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138115	-95.417534	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138121	-95.417541	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138128	-95.417549	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138134	-95.417556	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138141	-95.417564	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138148	-95.417571	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138155	-95.417578	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138161	-95.417585	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138168	-95.417592	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138176	-95.417599	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138183	-95.417606	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138190	-95.417613	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138198	-95.417620	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138205	-95.417627	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138212	-95.417634	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138220	-95.417640	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138228	-95.417647	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138235	-95.417654	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138243	-95.417661	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138250	-95.417668	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138256	-95.417674	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138263	-95.417680	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138271	-95.417687	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138279	-95.417694	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138286	-95.417700	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138294	-95.417706	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138301	-95.417713	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138309	-95.417718	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138316	-95.417723	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138322	-95.417729	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138329	-95.417734	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138336	-95.417740	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138344	-95.417746	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138352	-95.417753	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138359	-95.417759	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138367	-95.417765	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138374	-95.417772	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138382	-95.417778	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138390	-95.417785	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138398	-95.417791	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138406	-95.417798	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138413	-95.417804	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138421	-95.417810	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138429	-95.417816	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138436	-95.417822	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138443	-95.417828	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138450	-95.417834	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138457	-95.417840	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138465	-95.417846	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138473	-95.417853	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138480	-95.417859	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138488	-95.417866	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138496	-95.417873	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138505	-95.417879	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138513	-95.417885	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138519	-95.417892	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138527	-95.417898	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138534	-95.417904	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138542	-95.417911	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138550	-95.417918	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138558	-95.417924	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138565	-95.417931	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138573	-95.417937	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138580	-95.417943	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138587	-95.417950	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138595	-95.417956	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138603	-95.417962	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138611	-95.417969	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138618	-95.417975	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138627	-95.417976	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138636	-95.417976	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138646	-95.417974	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138654	-95.417971	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138662	-95.417968	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138670	-95.417964	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138678	-95.417960	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138685	-95.417955	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138693	-95.417950	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138700	-95.417946	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138707	-95.417940	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138715	-95.417935	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138720	-95.417929	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138725	-95.417923	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138729	-95.417918	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138734	-95.417913	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138741	-95.417908	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138746	-95.417901	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138752	-95.417896	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138758	-95.417891	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138763	-95.417887	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138766	-95.417884	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138770	-95.417879	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138773	-95.417877	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138788	-95.417894	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138785	-95.417898	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138781	-95.417906	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138775	-95.417914	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138770	-95.417921	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138765	-95.417929	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138759	-95.417937	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138753	-95.417946	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138748	-95.417955	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138743	-95.417963	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138738	-95.417972	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138734	-95.417980	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138730	-95.417990	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138727	-95.418001	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138724	-95.418011	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138722	-95.418021	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138720	-95.418032	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138720	-95.418043	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138720	-95.418054	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138722	-95.418065	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138725	-95.418074	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138731	-95.418081	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138738	-95.418089	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138744	-95.418098	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138751	-95.418106	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138757	-95.418116	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138763	-95.418125	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138785	-95.418164	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138788	-95.418168	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138792	-95.418177	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138797	-95.418187	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138802	-95.418196	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138806	-95.418205	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138811	-95.418214	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138815	-95.418223	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138819	-95.418233	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138823	-95.418242	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138826	-95.418252	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138830	-95.418263	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138834	-95.418273	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138838	-95.418283	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138841	-95.418293	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138844	-95.418304	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138847	-95.418314	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138849	-95.418324	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138852	-95.418333	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138855	-95.418343	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138858	-95.418352	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138860	-95.418361	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138862	-95.418370	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138864	-95.418381	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138867	-95.418391	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138868	-95.418401	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138871	-95.418412	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138872	-95.418423	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138872	-95.418432	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138869	-95.418564	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138870	-95.418566	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138870	-95.418566	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138884	-95.418666	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138885	-95.418670	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138892	-95.418879	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138891	-95.418879	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138891	-95.418980	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138890	-95.418980	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138893	-95.419157	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138892	-95.419163	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138891	-95.419325	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138891	-95.419325	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138890	-95.419325	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138891	-95.419325	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138872	-95.419440	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138873	-95.419440	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138873	-95.419440	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138854	-95.419634	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138854	-95.419635	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138879	-95.419776	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138911	-95.419968	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138909	-95.419966	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138909	-95.419966	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138907	-95.420167	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138907	-95.420167	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138917	-95.420263	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138916	-95.420263	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138915	-95.420366	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138915	-95.420366	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138925	-95.420519	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138925	-95.420518	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138903	-95.420529	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138903	-95.420529	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138897	-95.420594	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138896	-95.420593	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138894	-95.420609	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138894	-95.420611	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138816	-95.420599	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138845	-95.420601	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138844	-95.420600	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138855	-95.420523	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138856	-95.420523	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138848	-95.420435	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138848	-95.420435	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138848	-95.420435	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138836	-95.420357	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138836	-95.420359	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138840	-95.420357	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138847	-95.420354	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138854	-95.420350	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138860	-95.420341	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138862	-95.420331	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138865	-95.420323	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138870	-95.420316	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138874	-95.420308	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138876	-95.420299	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138878	-95.420289	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138880	-95.420279	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138881	-95.420270	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138883	-95.420260	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138882	-95.420249	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138881	-95.420239	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138880	-95.420230	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138875	-95.420222	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138870	-95.420216	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138857	-95.420116	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138857	-95.420116	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138867	-95.420007	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138867	-95.420006	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138842	-95.419896	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138842	-95.419896	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138819	-95.419780	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138819	-95.419780	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138808	-95.419572	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138808	-95.419573	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138808	-95.419573	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138808	-95.419573	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138821	-95.419358	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138822	-95.419358	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138838	-95.419199	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138839	-95.419199	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138835	-95.419023	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138836	-95.419023	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138829	-95.418749	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138829	-95.418749	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138833	-95.418641	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138833	-95.418641	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138832	-95.418495	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138832	-95.418495	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138801	-95.418395	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138802	-95.418389	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138800	-95.418383	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138772	-95.418251	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138771	-95.418250	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138768	-95.418245	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138651	-95.418086	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138649	-95.418083	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138605	-95.418042	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138602	-95.418036	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138597	-95.418033	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138590	-95.418028	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138583	-95.418022	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138576	-95.418016	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138569	-95.418010	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138563	-95.418005	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138556	-95.418000	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138549	-95.417995	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138542	-95.417991	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138535	-95.417988	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138527	-95.417985	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138519	-95.417980	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138513	-95.417975	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138507	-95.417970	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138501	-95.417965	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138498	-95.417963	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138493	-95.417960	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138488	-95.417955	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138483	-95.417948	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138478	-95.417941	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138472	-95.417934	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138465	-95.417929	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138459	-95.417924	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138452	-95.417918	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138444	-95.417912	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138436	-95.417905	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138429	-95.417898	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138421	-95.417891	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138414	-95.417885	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138407	-95.417877	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138399	-95.417871	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138391	-95.417864	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138383	-95.417858	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138376	-95.417852	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138368	-95.417845	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138360	-95.417838	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138351	-95.417831	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138342	-95.417824	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138333	-95.417819	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138325	-95.417812	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138317	-95.417805	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138308	-95.417798	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138299	-95.417792	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138291	-95.417784	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138282	-95.417777	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138273	-95.417771	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138265	-95.417765	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138256	-95.417759	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138248	-95.417753	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138240	-95.417747	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138233	-95.417740	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138226	-95.417734	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138220	-95.417728	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138213	-95.417722	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138206	-95.417716	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138199	-95.417711	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138191	-95.417704	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138184	-95.417697	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138177	-95.417690	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138169	-95.417685	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138162	-95.417678	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138155	-95.417670	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138147	-95.417662	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138139	-95.417655	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138131	-95.417647	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138124	-95.417641	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138117	-95.417634	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138110	-95.417627	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138104	-95.417620	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138097	-95.417613	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138089	-95.417605	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138083	-95.417596	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138077	-95.417589	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138070	-95.417580	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138063	-95.417571	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.138057	-95.417563	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138050	-95.417555	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138044	-95.417546	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138038	-95.417537	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138034	-95.417528	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138028	-95.417518	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138023	-95.417509	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138017	-95.417499	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138012	-95.417489	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138007	-95.417480	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.138001	-95.417471	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137995	-95.417461	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137991	-95.417451	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137987	-95.417441	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137983	-95.417430	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137978	-95.417419	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137975	-95.417409	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137971	-95.417398	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137967	-95.417389	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137964	-95.417379	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137961	-95.417370	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137958	-95.417361	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137955	-95.417351	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137954	-95.417341	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137951	-95.417331	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137948	-95.417320	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137946	-95.417311	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137944	-95.417301	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137942	-95.417291	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137939	-95.417282	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137936	-95.417272	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137934	-95.417262	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137931	-95.417251	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137929	-95.417241	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137928	-95.417230	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.137926	-95.417220	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137924	-95.417210	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137922	-95.417199	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137920	-95.417188	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137917	-95.417178	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137915	-95.417167	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137913	-95.417157	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137911	-95.417149	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137901	-95.417003	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137901	-95.417003	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137900	-95.417001	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137907	-95.416823	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137907	-95.416824	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137909	-95.416798	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137909	-95.416798	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137908	-95.416588	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137909	-95.416588	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137907	-95.416482	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137907	-95.416482	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137893	-95.416324	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137893	-95.416324	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137875	-95.416155	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137875	-95.416154	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137870	-95.415914	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137870	-95.415914	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137884	-95.415867	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137884	-95.415867	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137889	-95.415759	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137889	-95.415759	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137868	-95.415627	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137868	-95.415627	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137862	-95.415338	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137862	-95.415338	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137889	-95.415063	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137885	-95.415060	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.137869	-95.414870	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137869	-95.414870	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137852	-95.414614	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.414614	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137851	-95.414532	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137851	-95.414532	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137832	-95.414147	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137832	-95.414147	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137858	-95.413755	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137859	-95.413755	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137853	-95.413639	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137854	-95.413639	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137869	-95.413608	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137867	-95.413608	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137886	-95.413611	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137898	-95.413626	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137881	-95.413576	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137870	-95.413524	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137868	-95.413522	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137873	-95.413498	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137882	-95.413471	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137881	-95.413461	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137873	-95.413444	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137873	-95.413437	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137867	-95.413427	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137867	-95.413447	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137864	-95.413431	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137859	-95.413236	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137860	-95.413236	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137847	-95.413053	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137847	-95.413053	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137839	-95.412862	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137839	-95.412862	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137839	-95.412862	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137837	-95.412592	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.137837	-95.412592	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137834	-95.412318	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137834	-95.412318	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137834	-95.412317	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137831	-95.412191	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137831	-95.412191	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137813	-95.411899	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137814	-95.411900	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137807	-95.411526	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137806	-95.411527	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137813	-95.411382	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137806	-95.411385	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137798	-95.411197	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137787	-95.411199	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137793	-95.410985	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137793	-95.410985	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137809	-95.410747	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137811	-95.410748	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137811	-95.410745	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137813	-95.410742	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137814	-95.410736	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137795	-95.410703	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137801	-95.410742	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137800	-95.410737	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137799	-95.410717	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137794	-95.410681	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137792	-95.410662	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137800	-95.410662	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137808	-95.410651	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137822	-95.410630	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137833	-95.410622	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137848	-95.410622	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137846	-95.410588	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137842	-95.410558	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137828	-95.410536	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.137793	-95.410513	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137793	-95.410513	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137797	-95.410434	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137796	-95.410435	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137790	-95.410329	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137795	-95.410324	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137788	-95.410271	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137788	-95.410270	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137780	-95.410121	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137780	-95.410121	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137761	-95.409974	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137761	-95.409974	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137717	-95.409773	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137716	-95.409775	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137639	-95.409611	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137639	-95.409613	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137575	-95.409525	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137576	-95.409525	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137365	-95.409311	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137366	-95.409312	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137209	-95.409139	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137212	-95.409137	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137210	-95.409138	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137125	-95.409054	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137125	-95.409054	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137023	-95.408942	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137022	-95.408944	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137022	-95.408943	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136988	-95.408909	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136988	-95.408908	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136874	-95.408828	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136874	-95.408828	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136772	-95.408781	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136773	-95.408781	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136616	-95.408665	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.136616	-95.408665	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136521	-95.408595	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136521	-95.408594	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136351	-95.408434	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136351	-95.408433	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136350	-95.408434	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136191	-95.408300	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136191	-95.408300	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136036	-95.408180	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136036	-95.408180	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135916	-95.408042	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135916	-95.408041	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135745	-95.407892	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135742	-95.407892	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135742	-95.407893	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135693	-95.407853	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135693	-95.407850	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135391	-95.407638	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135393	-95.407639	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135219	-95.407478	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135219	-95.407478	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135102	-95.407385	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135102	-95.407384	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135102	-95.407384	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135102	-95.407384	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134963	-95.407236	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134963	-95.407236	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134660	-95.407011	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134660	-95.407011	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134523	-95.406860	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134523	-95.406860	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134446	-95.406802	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134446	-95.406802	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134446	-95.406802	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134353	-95.406731	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.134353	-95.406731	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134194	-95.406567	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134194	-95.406567	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134053	-95.406432	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134054	-95.406431	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133916	-95.406312	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133918	-95.406309	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133725	-95.406129	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133725	-95.406129	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133529	-95.405998	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133529	-95.405998	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133529	-95.405998	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133529	-95.405998	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133404	-95.405893	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133404	-95.405893	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133280	-95.405809	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133280	-95.405808	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133290	-95.405780	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133289	-95.405781	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133364	-95.405812	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133364	-95.405812	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133432	-95.405863	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133432	-95.405863	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133432	-95.405862	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133517	-95.405938	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133517	-95.405938	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133790	-95.406110	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133790	-95.406110	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133883	-95.406193	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.133883	-95.406192	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134006	-95.406329	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134093	-95.406400	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134093	-95.406400	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134156	-95.406461	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134155	-95.406461	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134156	-95.406461	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.134263	-95.406571	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134263	-95.406571	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134352	-95.406676	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134492	-95.406778	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134492	-95.406778	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134625	-95.406905	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134626	-95.406905	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134767	-95.407023	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134766	-95.407025	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134774	-95.407022	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.134783	-95.407017	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135016	-95.407185	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135010	-95.407187	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135073	-95.407290	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135073	-95.407291	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135284	-95.407455	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135284	-95.407455	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135383	-95.407566	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135463	-95.407638	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135694	-95.407799	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135694	-95.407798	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135761	-95.407861	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135761	-95.407861	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135882	-95.407941	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.135942	-95.407979	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136031	-95.408098	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136031	-95.408099	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136135	-95.408191	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136135	-95.408191	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136233	-95.408275	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136233	-95.408275	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136330	-95.408353	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136329	-95.408353	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136398	-95.408448	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136398	-95.408448	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.136484	-95.408532	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136484	-95.408532	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136703	-95.408659	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136704	-95.408660	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136851	-95.408782	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136850	-95.408782	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136922	-95.408820	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.136922	-95.408820	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137180	-95.409044	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137175	-95.409043	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137170	-95.409046	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137326	-95.409174	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137326	-95.409173	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137599	-95.409461	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137658	-95.409562	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137659	-95.409561	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137720	-95.409690	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137771	-95.409837	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137771	-95.409836	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137805	-95.410026	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137813	-95.410017	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137834	-95.410113	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137846	-95.410087	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.137850	-95.410806	5.9	Uncorrected	Geo 7X (H-Star)	9/8/2019	01:50:38pm	1.0	6+	DR, PW, CW
Channel III-D	30.122968	-95.403142	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.122968	-95.403142	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.122968	-95.403142	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.122968	-95.403142	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.122968	-95.403142	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.122968	-95.403142	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.123106	-95.403152	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.123106	-95.403152	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.123267	-95.403165	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.123268	-95.403165	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.123267	-95.403164	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW

[illegible]

	NAD 1983									
			Max PDOP						Number	Initials of
Feature	Latitude	Longitude	(6 or less)	Processing Type	Device	Date	Time	Precision	Satellites	collector
Channel III-D	30.124889	-95.403319	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125000	-95.403405	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.124999	-95.403405	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.124999	-95.403405	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125094	-95.403506	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125155	-95.403681	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125155	-95.403681	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125154	-95.403681	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125155	-95.403682	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125193	-95.403800	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125193	-95.403800	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125211	-95.403903	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125211	-95.403903	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125257	-95.404091	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125258	-95.404091	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125258	-95.404092	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125279	-95.404166	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125278	-95.404166	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125278	-95.404166	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125296	-95.404307	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125296	-95.404307	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125296	-95.404307	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125350	-95.404522	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125350	-95.404522	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125350	-95.404523	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125382	-95.404623	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125382	-95.404623	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125382	-95.404623	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125418	-95.404830	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125418	-95.404830	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125419	-95.404830	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125490	-95.405043	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125490	-95.405043	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125490	-95.405043	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125489	-95.405043	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.125543	-95.405113	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125543	-95.405113	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125542	-95.405113	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125583	-95.405199	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125583	-95.405199	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125622	-95.405271	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125624	-95.405273	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125664	-95.405342	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125664	-95.405342	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125687	-95.405387	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125687	-95.405387	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125742	-95.405453	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125742	-95.405452	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125742	-95.405452	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125742	-95.405452	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125797	-95.405476	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125797	-95.405475	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125894	-95.405526	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125894	-95.405526	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125894	-95.405525	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126000	-95.405550	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126000	-95.405549	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126001	-95.405549	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126149	-95.405581	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126149	-95.405581	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126149	-95.405581	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126238	-95.405593	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126238	-95.405593	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126237	-95.405592	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126238	-95.405592	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126377	-95.405594	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126377	-95.405593	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126377	-95.405593	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126574	-95.405604	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW



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NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.133020	-95.405629	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.133020	-95.405629	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132983	-95.405620	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132983	-95.405621	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132911	-95.405611	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132911	-95.405611	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132829	-95.405589	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132829	-95.405589	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132741	-95.405582	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132741	-95.405582	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132741	-95.405582	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132699	-95.405580	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132699	-95.405581	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132699	-95.405581	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132391	-95.405601	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132391	-95.405601	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132304	-95.405604	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132305	-95.405604	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132210	-95.405601	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132210	-95.405602	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132210	-95.405602	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132097	-95.405615	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.132097	-95.405615	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.131974	-95.405614	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.131974	-95.405614	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.131689	-95.405578	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.131688	-95.405579	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.131621	-95.405577	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.131507	-95.405574	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.131506	-95.405575	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.131169	-95.405565	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.131176	-95.405568	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.131176	-95.405568	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.131055	-95.405559	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.131054	-95.405560	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.130939	-95.405566	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.130939	-95.405568	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.130874	-95.405565	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.130874	-95.405565	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.130715	-95.405565	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.130715	-95.405566	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.130714	-95.405566	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.130592	-95.405553	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.130592	-95.405552	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.130409	-95.405538	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.130409	-95.405538	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.130298	-95.405528	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.130298	-95.405531	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.130297	-95.405534	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.130035	-95.405538	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.130035	-95.405538	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.130035	-95.405538	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.129898	-95.405539	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.129898	-95.405539	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.129898	-95.405539	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.129690	-95.405552	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.129690	-95.405553	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.129543	-95.405546	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.129542	-95.405547	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.129453	-95.405546	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.129453	-95.405546	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.129374	-95.405550	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.129374	-95.405551	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.129239	-95.405530	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.129239	-95.405529	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.129061	-95.405545	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.129061	-95.405545	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.129061	-95.405545	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128934	-95.405547	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128934	-95.405548	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.128934	-95.405548	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128776	-95.405550	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128776	-95.405550	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128776	-95.405550	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128648	-95.405548	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128648	-95.405547	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128648	-95.405547	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128563	-95.405545	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128562	-95.405545	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128444	-95.405543	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128443	-95.405543	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128442	-95.405543	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128306	-95.405515	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128306	-95.405515	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128240	-95.405501	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128240	-95.405502	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128239	-95.405503	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128128	-95.405498	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128128	-95.405498	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128128	-95.405499	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128027	-95.405521	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128027	-95.405526	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128026	-95.405526	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.128032	-95.405519	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.127936	-95.405504	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.127936	-95.405504	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.127936	-95.405505	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.127802	-95.405506	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.127799	-95.405508	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.127513	-95.405488	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.127512	-95.405488	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.127388	-95.405505	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.127388	-95.405506	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.127388	-95.405506	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.127088	-95.405531	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.127088	-95.405531	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126817	-95.405520	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126818	-95.405520	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126817	-95.405521	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126675	-95.405525	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126674	-95.405526	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126674	-95.405525	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126466	-95.405512	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126465	-95.405513	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126466	-95.405522	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126466	-95.405522	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126219	-95.405525	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.126219	-95.405525	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125875	-95.405458	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125875	-95.405458	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125874	-95.405458	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125694	-95.405329	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125694	-95.405329	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125631	-95.405187	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125547	-95.405029	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125546	-95.405029	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125547	-95.405029	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125472	-95.404849	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125472	-95.404849	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125472	-95.404849	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125453	-95.404697	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125453	-95.404698	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125453	-95.404697	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125408	-95.404504	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125408	-95.404504	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125364	-95.404347	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125363	-95.404347	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125363	-95.404346	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125343	-95.404232	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125334	-95.404004	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW

	NAD 1983									
			Max PDOP						Number	Initials of
Feature	Latitude	Longitude	(6 or less)	Processing Type	Device	Date	Time	Precision	Satellites	collector
Channel III-D	30.125332	-95.404004	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125264	-95.403782	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125264	-95.403782	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125188	-95.403626	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125188	-95.403626	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125148	-95.403536	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125148	-95.403535	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125121	-95.403440	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125120	-95.403440	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125018	-95.403301	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.125017	-95.403301	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.124929	-95.403229	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.124929	-95.403229	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.124768	-95.403148	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.124768	-95.403148	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.124768	-95.403148	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.124768	-95.403148	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.124630	-95.403125	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.124630	-95.403125	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.124506	-95.403115	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.124506	-95.403115	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.124341	-95.403087	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.124341	-95.403087	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.124183	-95.403092	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.124183	-95.403092	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.124031	-95.403096	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.124031	-95.403096	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.123908	-95.403100	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.123908	-95.403100	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.123809	-95.403091	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.123809	-95.403091	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.123664	-95.403087	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.123664	-95.403087	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.123664	-95.403087	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.123480	-95.403093	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-D	30.123481	-95.403094	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.123481	-95.403094	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.123149	-95.403079	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.123148	-95.403080	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.123149	-95.403080	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.122955	-95.403065	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.122816	-95.403062	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-D	30.122817	-95.403062	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-E OHWM										
Channel III-E	30.137277	-95.432637	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137276	-95.432638	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137276	-95.432639	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137283	-95.432860	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137284	-95.432858	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137283	-95.432857	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137284	-95.432862	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137285	-95.432869	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137285	-95.432870	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137286	-95.432884	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137286	-95.432891	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137288	-95.432901	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137289	-95.432910	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137290	-95.432920	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137291	-95.432929	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137291	-95.432940	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137292	-95.432950	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137293	-95.432959	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137295	-95.432968	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137296	-95.432975	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137297	-95.432986	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137298	-95.432994	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137300	-95.433003	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137302	-95.433012	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137304	-95.433022	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137307	-95.433031	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-E	30.137311	-95.433038	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137314	-95.433047	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137317	-95.433055	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137320	-95.433063	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137324	-95.433070	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137328	-95.433074	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137431	-95.433170	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137431	-95.433169	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137522	-95.433251	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137522	-95.433250	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137625	-95.433341	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137625	-95.433340	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137625	-95.433340	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137735	-95.433433	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137734	-95.433432	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137797	-95.433492	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137888	-95.433557	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137982	-95.433636	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137982	-95.433635	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137982	-95.433635	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138057	-95.433689	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138061	-95.433693	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138067	-95.433697	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138071	-95.433704	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138068	-95.433713	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138064	-95.433721	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138061	-95.433730	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138057	-95.433739	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138055	-95.433747	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138055	-95.433752	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138060	-95.433755	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138067	-95.433759	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138074	-95.433762	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138081	-95.433765	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138089	-95.433769	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-E	30.138095	-95.433769	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138097	-95.433765	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138100	-95.433758	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138102	-95.433751	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138105	-95.433745	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138106	-95.433738	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138108	-95.433732	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138111	-95.433730	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138118	-95.433736	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138125	-95.433743	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138131	-95.433748	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138133	-95.433749	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138133	-95.433749	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138197	-95.433839	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138319	-95.433943	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138481	-95.434112	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138612	-95.434238	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138768	-95.434369	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138769	-95.434369	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138901	-95.434505	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138902	-95.434505	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139017	-95.434602	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139017	-95.434602	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139120	-95.434686	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139120	-95.434686	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139244	-95.434796	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139243	-95.434796	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139337	-95.434886	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139337	-95.434886	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139560	-95.435078	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139560	-95.435078	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139559	-95.435078	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139559	-95.435078	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139703	-95.435229	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139782	-95.435336	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-E	30.139782	-95.435336	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139790	-95.435375	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139789	-95.435375	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139795	-95.435375	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139800	-95.435377	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139804	-95.435377	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139811	-95.435369	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139810	-95.435367	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139811	-95.435359	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139812	-95.435351	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139818	-95.435347	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139827	-95.435343	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139832	-95.435349	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139865	-95.435377	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139866	-95.435377	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139954	-95.435461	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139955	-95.435461	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140018	-95.435526	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140018	-95.435526	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140098	-95.435595	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140098	-95.435595	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140098	-95.435595	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140197	-95.435650	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140197	-95.435650	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140267	-95.435679	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140267	-95.435679	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140299	-95.435684	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140299	-95.435684	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140331	-95.435704	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140331	-95.435705	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140331	-95.435705	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140354	-95.435756	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140354	-95.435756	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140355	-95.435756	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140394	-95.435783	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-E	30.140394	-95.435782	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140394	-95.435782	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140408	-95.435827	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140408	-95.435827	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140405	-95.435850	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140405	-95.435850	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140407	-95.435852	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140413	-95.435857	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140419	-95.435863	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140424	-95.435867	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140430	-95.435871	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140433	-95.435874	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140439	-95.435879	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140443	-95.435883	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140443	-95.435883	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140485	-95.435898	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140490	-95.435897	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140506	-95.435925	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140510	-95.435931	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140515	-95.435939	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140517	-95.435949	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140521	-95.435957	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140522	-95.435966	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140553	-95.435973	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140554	-95.435972	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140552	-95.435966	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140550	-95.435958	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140549	-95.435948	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140546	-95.435938	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140542	-95.435928	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140536	-95.435918	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140530	-95.435909	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140525	-95.435900	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140520	-95.435894	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140514	-95.435884	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-E	30.140508	-95.435878	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140503	-95.435873	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140477	-95.435831	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140477	-95.435829	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140474	-95.435827	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140468	-95.435821	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140463	-95.435817	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140455	-95.435808	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140449	-95.435802	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140443	-95.435798	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140440	-95.435795	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140433	-95.435767	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140434	-95.435767	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140345	-95.435688	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140346	-95.435688	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140346	-95.435688	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140273	-95.435651	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140273	-95.435651	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140187	-95.435624	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140187	-95.435624	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140072	-95.435551	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140047	-95.435521	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140047	-95.435522	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140016	-95.435449	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140015	-95.435447	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140015	-95.435448	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.140015	-95.435448	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139939	-95.435387	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139940	-95.435387	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139906	-95.435365	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139906	-95.435361	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139852	-95.435323	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139851	-95.435324	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139792	-95.435289	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139794	-95.435289	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-E	30.139768	-95.435238	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139768	-95.435238	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139697	-95.435159	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139697	-95.435159	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139697	-95.435159	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139579	-95.435067	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139579	-95.435067	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139519	-95.434986	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139520	-95.434986	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139392	-95.434881	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139392	-95.434881	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139315	-95.434816	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139313	-95.434816	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139222	-95.434713	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139222	-95.434713	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139112	-95.434625	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.139114	-95.434633	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138973	-95.434532	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138975	-95.434530	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138821	-95.434356	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138811	-95.434361	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138632	-95.434199	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138632	-95.434199	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138501	-95.434065	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138500	-95.434064	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138295	-95.433863	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138295	-95.433863	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138020	-95.433599	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138021	-95.433599	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137794	-95.433409	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137794	-95.433409	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137577	-95.433239	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137577	-95.433239	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137578	-95.433238	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137406	-95.433060	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-E	30.137405	-95.433060	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137345	-95.432992	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137345	-95.432992	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137345	-95.432992	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137320	-95.432868	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137319	-95.432868	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137321	-95.432743	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137323	-95.432743	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137321	-95.432635	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137321	-95.432635	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137321	-95.432635	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137298	-95.432618	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137302	-95.432624	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137294	-95.432576	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137324	-95.432473	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137324	-95.432476	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137323	-95.432329	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137322	-95.432327	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137340	-95.432103	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137315	-95.431732	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137315	-95.431733	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137340	-95.431632	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137346	-95.431632	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137344	-95.431611	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137341	-95.431610	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137335	-95.431608	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137328	-95.431609	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137326	-95.431609	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137310	-95.431526	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137309	-95.431526	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137307	-95.431346	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137307	-95.431346	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137330	-95.431230	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137330	-95.431230	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137333	-95.431231	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-E	30.137376	-95.431149	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137376	-95.431149	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137406	-95.431011	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137406	-95.431011	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137454	-95.430983	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137454	-95.430983	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137566	-95.430882	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137566	-95.430882	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137586	-95.430859	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137586	-95.430859	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137659	-95.430850	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137659	-95.430850	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137756	-95.430856	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137756	-95.430855	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137756	-95.430855	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137971	-95.430821	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138060	-95.430793	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138059	-95.430793	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138210	-95.430750	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138210	-95.430749	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138378	-95.430704	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138378	-95.430704	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138523	-95.430655	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138523	-95.430655	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138529	-95.430651	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138534	-95.430646	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138542	-95.430641	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138549	-95.430635	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138556	-95.430627	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138561	-95.430618	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138567	-95.430608	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138572	-95.430599	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138578	-95.430589	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138583	-95.430579	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138588	-95.430569	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-E	30.138593	-95.430559	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138597	-95.430547	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138602	-95.430536	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138605	-95.430526	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138608	-95.430517	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138610	-95.430507	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138612	-95.430495	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138614	-95.430485	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138616	-95.430476	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138617	-95.430468	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138617	-95.430460	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138620	-95.430341	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138620	-95.430341	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138630	-95.430127	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138630	-95.430128	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138640	-95.429956	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138640	-95.429956	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138639	-95.429826	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138639	-95.429827	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138625	-95.429620	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138625	-95.429619	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138624	-95.429442	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138624	-95.429442	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138622	-95.429230	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138610	-95.429239	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138611	-95.429239	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138625	-95.429065	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138626	-95.428977	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138626	-95.428977	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138630	-95.428823	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138630	-95.428823	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138633	-95.428650	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138633	-95.428650	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138579	-95.428714	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138578	-95.428713	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-E	30.138580	-95.428904	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138580	-95.428905	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138580	-95.428905	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138585	-95.429139	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138583	-95.429138	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138571	-95.429461	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138568	-95.429463	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138584	-95.430065	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138584	-95.430065	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138589	-95.430366	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138589	-95.430366	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138592	-95.430457	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138592	-95.430458	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138592	-95.430461	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138591	-95.430470	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138590	-95.430481	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138588	-95.430493	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138585	-95.430505	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138581	-95.430517	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138577	-95.430529	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138573	-95.430540	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138569	-95.430551	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138564	-95.430562	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138561	-95.430572	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138558	-95.430583	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138553	-95.430593	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138545	-95.430601	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138538	-95.430608	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138529	-95.430613	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138521	-95.430616	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138513	-95.430618	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138504	-95.430622	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138495	-95.430626	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138486	-95.430628	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138477	-95.430630	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-E	30.138467	-95.430633	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138459	-95.430635	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138453	-95.430637	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138337	-95.430673	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138337	-95.430674	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138228	-95.430703	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138228	-95.430702	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138034	-95.430753	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.138034	-95.430753	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137848	-95.430803	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137848	-95.430803	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137689	-95.430834	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137690	-95.430834	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137564	-95.430837	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137564	-95.430837	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137565	-95.430837	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137506	-95.430903	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137506	-95.430903	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137363	-95.431012	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137363	-95.431012	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137367	-95.431002	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137359	-95.431014	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137365	-95.431015	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137359	-95.431106	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137359	-95.431105	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137333	-95.431145	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137333	-95.431144	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137286	-95.431243	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137286	-95.431243	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137274	-95.431321	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137274	-95.431321	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137266	-95.431510	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137256	-95.431656	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137270	-95.431799	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137269	-95.431799	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-E	30.137277	-95.431931	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137277	-95.431932	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137281	-95.432069	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137282	-95.432068	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137282	-95.432183	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137282	-95.432183	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137273	-95.432349	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137273	-95.432349	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137293	-95.432474	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137291	-95.432473	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-E	30.137277	-95.432637	6	L1 Postprocessed Carrier Float	Geo 7X (H-Star)	9/8/2019	10:29:14am	0.8	6+	DR, PW, CW
Channel III-F OHWM										
Channel III-F	30.122658	-95.403075	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.122654	-95.403076	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.122654	-95.403077	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.122603	-95.403088	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.122603	-95.403088	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.122603	-95.403088	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.122521	-95.403079	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.122522	-95.403080	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.122522	-95.403080	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.122373	-95.403092	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.122373	-95.403092	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.122372	-95.403092	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.122247	-95.403094	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.122247	-95.403094	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.122108	-95.403095	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.122108	-95.403094	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.122108	-95.403095	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.121933	-95.403072	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.121933	-95.403073	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.121579	-95.403045	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.121579	-95.403045	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.121417	-95.403028	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.121416	-95.403029	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW



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NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-F	30.119636	-95.402888	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.119636	-95.402888	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.119636	-95.402888	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.119636	-95.402888	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.119495	-95.402891	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.119495	-95.402891	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.119321	-95.402892	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.119321	-95.402892	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.119321	-95.402892	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.119096	-95.402883	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.119096	-95.402884	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118899	-95.402876	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118899	-95.402876	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118768	-95.402869	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118768	-95.402869	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118768	-95.402870	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118650	-95.402861	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118650	-95.402859	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118472	-95.402864	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118472	-95.402864	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118472	-95.402864	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118327	-95.402856	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118129	-95.402862	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118129	-95.402862	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.117982	-95.402858	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.117673	-95.402861	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.117573	-95.402839	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.117573	-95.402841	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.117368	-95.402818	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.117369	-95.402820	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.117243	-95.402836	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.117243	-95.402836	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.117243	-95.402836	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.117140	-95.402843	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.117139	-95.402843	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW

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NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-F	30.115050	-95.403355	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.115050	-95.403355	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114969	-95.403407	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114969	-95.403407	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114969	-95.403407	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114899	-95.403455	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114899	-95.403455	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114812	-95.403514	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114813	-95.403515	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114740	-95.403569	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114740	-95.403569	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114740	-95.403569	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114649	-95.403613	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114649	-95.403613	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114558	-95.403657	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114455	-95.403736	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114455	-95.403736	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114356	-95.403824	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114356	-95.403824	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114288	-95.403876	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114289	-95.403876	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114226	-95.403923	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114228	-95.403923	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114228	-95.403924	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114151	-95.404001	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114151	-95.404001	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114151	-95.404001	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114151	-95.404001	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114039	-95.404093	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114039	-95.404094	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114039	-95.404094	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.113980	-95.404142	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.113980	-95.404142	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.113980	-95.404142	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.113891	-95.404220	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW

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NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-F	30.110966	-95.405395	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110849	-95.405377	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110849	-95.405377	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110715	-95.405374	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110715	-95.405374	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110630	-95.405373	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110631	-95.405374	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110496	-95.405347	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110488	-95.405348	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110380	-95.405320	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110381	-95.405319	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110387	-95.405326	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110300	-95.405342	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110300	-95.405342	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110300	-95.405342	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110219	-95.405316	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110219	-95.405316	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110219	-95.405316	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110138	-95.405331	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110138	-95.405331	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110067	-95.405337	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109939	-95.405359	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109940	-95.405359	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109762	-95.405369	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109767	-95.405371	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109779	-95.405361	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109489	-95.405393	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109489	-95.405393	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109489	-95.405393	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109355	-95.405401	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109177	-95.405422	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109178	-95.405422	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109190	-95.405406	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109043	-95.405410	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.108858	-95.405412	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-F	30.108858	-95.405413	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.108858	-95.405413	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.108718	-95.405438	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.108718	-95.405436	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.108493	-95.405460	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.108311	-95.405480	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.108311	-95.405482	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.108077	-95.405462	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107942	-95.405477	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107942	-95.405476	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107853	-95.405479	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107853	-95.405480	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107757	-95.405495	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107556	-95.405500	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107556	-95.405500	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107451	-95.405502	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107450	-95.405501	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107450	-95.405501	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107181	-95.405521	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107180	-95.405521	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.106801	-95.405545	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.106667	-95.405551	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.106667	-95.405552	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.106385	-95.405582	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.106384	-95.405583	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.106256	-95.405583	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.106148	-95.405591	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.106152	-95.405597	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.106004	-95.405592	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.106004	-95.405592	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.105729	-95.405604	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.105729	-95.405604	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.105614	-95.405597	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.105613	-95.405596	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.105325	-95.405635	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-F	30.105326	-95.405635	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.105183	-95.405650	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.105184	-95.405650	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.105184	-95.405650	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.105074	-95.405649	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.105074	-95.405649	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.104975	-95.405665	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.104975	-95.405665	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.104522	-95.405673	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.104522	-95.405673	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.104196	-95.405696	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.104080	-95.405698	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.104081	-95.405698	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103951	-95.405697	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103951	-95.405698	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103951	-95.405698	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103844	-95.405706	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103845	-95.405707	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103734	-95.405706	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103734	-95.405706	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103482	-95.405714	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103399	-95.405734	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103400	-95.405735	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103248	-95.405749	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103248	-95.405750	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103074	-95.405748	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103074	-95.405749	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102907	-95.405738	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102907	-95.405739	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102803	-95.405744	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102803	-95.405744	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102686	-95.405744	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102686	-95.405744	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102626	-95.405728	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102627	-95.405730	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-F	30.102532	-95.405730	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102532	-95.405731	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102316	-95.405745	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102316	-95.405745	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102152	-95.405767	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101756	-95.405801	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101756	-95.405801	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101756	-95.405801	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101654	-95.405797	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101602	-95.405796	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101603	-95.405796	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101602	-95.405796	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101508	-95.405795	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101508	-95.405795	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101416	-95.405806	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101416	-95.405806	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101311	-95.405813	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101311	-95.405812	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101199	-95.405827	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101199	-95.405827	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101086	-95.405837	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101087	-95.405837	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101014	-95.405851	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101014	-95.405852	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101015	-95.405852	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100947	-95.405853	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100945	-95.405854	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100835	-95.405879	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100836	-95.405878	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100722	-95.405909	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100722	-95.405909	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100600	-95.405958	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100600	-95.405958	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100594	-95.405953	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100518	-95.405995	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-F	30.100518	-95.405995	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100413	-95.406015	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100411	-95.406015	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100383	-95.406024	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100380	-95.406021	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100191	-95.406108	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100191	-95.406108	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100191	-95.406108	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100126	-95.406139	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100125	-95.406138	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099999	-95.406192	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099999	-95.406192	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099857	-95.406255	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099857	-95.406254	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099757	-95.406312	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099757	-95.406312	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099757	-95.406312	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099399	-95.406453	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099093	-95.406565	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099093	-95.406566	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099093	-95.406567	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099041	-95.406582	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099041	-95.406582	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098896	-95.406638	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098897	-95.406638	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098831	-95.406666	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098831	-95.406666	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098469	-95.406836	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098469	-95.406836	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098469	-95.406836	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098382	-95.406874	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098245	-95.406941	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098245	-95.406941	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098149	-95.406982	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098149	-95.406981	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-F	30.098000	-95.407045	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098000	-95.407044	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097737	-95.407170	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097738	-95.407171	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097678	-95.407230	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097593	-95.407376	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097593	-95.407376	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097544	-95.407489	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097544	-95.407489	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097529	-95.407538	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097529	-95.407538	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097523	-95.407613	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097518	-95.407608	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097523	-95.407701	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097523	-95.407701	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097530	-95.407764	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097530	-95.407764	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097531	-95.407764	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097543	-95.407821	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097542	-95.407821	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097542	-95.407822	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097571	-95.407908	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097569	-95.407909	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097577	-95.407964	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097578	-95.407967	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097643	-95.408191	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097643	-95.408192	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097702	-95.408351	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097702	-95.408351	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097719	-95.408400	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097714	-95.408397	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097754	-95.408530	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097754	-95.408529	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097784	-95.408650	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097785	-95.408649	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-F	30.097844	-95.408781	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097895	-95.408929	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097895	-95.408929	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097911	-95.408998	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097931	-95.409045	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098020	-95.409285	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098071	-95.409429	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098073	-95.409430	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098134	-95.409565	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098224	-95.409702	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098224	-95.409701	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098261	-95.409947	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098260	-95.409948	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098296	-95.409983	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098292	-95.409981	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098326	-95.410053	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098326	-95.410053	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098337	-95.410115	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098337	-95.410115	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098354	-95.410246	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098355	-95.410246	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098492	-95.410245	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098493	-95.410244	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098494	-95.410242	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098502	-95.410151	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098502	-95.410143	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098495	-95.410046	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098493	-95.410049	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098496	-95.409971	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098496	-95.409971	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098495	-95.409924	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098495	-95.409924	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098494	-95.409925	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098511	-95.409864	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098511	-95.409864	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-F	30.098496	-95.409839	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098496	-95.409845	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098478	-95.409867	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098478	-95.409867	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098442	-95.409884	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098440	-95.409884	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098416	-95.409869	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098416	-95.409870	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098307	-95.409669	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098307	-95.409669	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098281	-95.409607	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098281	-95.409607	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098210	-95.409468	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098210	-95.409468	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098079	-95.409137	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098079	-95.409138	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098044	-95.409045	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098044	-95.409046	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097676	-95.408006	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097676	-95.408006	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097652	-95.407851	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097652	-95.407851	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097632	-95.407702	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097628	-95.407701	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097628	-95.407557	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097628	-95.407557	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097690	-95.407414	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097689	-95.407414	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097755	-95.407287	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.097755	-95.407286	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098226	-95.407049	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098226	-95.407049	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098639	-95.406885	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098639	-95.406885	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.098803	-95.406820	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-F	30.098803	-95.406820	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099059	-95.406700	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099059	-95.406699	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099195	-95.406653	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099380	-95.406582	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099687	-95.406449	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099687	-95.406449	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099909	-95.406359	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.099907	-95.406353	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100010	-95.406310	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100009	-95.406308	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100009	-95.406308	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100011	-95.406308	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100018	-95.406305	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100023	-95.406305	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100027	-95.406305	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100029	-95.406304	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100199	-95.406225	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100199	-95.406225	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100393	-95.406121	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100392	-95.406120	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100561	-95.406053	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100560	-95.406052	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100560	-95.406052	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100756	-95.405992	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100757	-95.405991	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100756	-95.405992	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.100756	-95.405992	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101012	-95.405914	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101012	-95.405914	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101293	-95.405872	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101293	-95.405871	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101483	-95.405848	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101483	-95.405847	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.101728	-95.405857	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-F	30.101729	-95.405856	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102325	-95.405829	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102325	-95.405826	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102632	-95.405821	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102631	-95.405820	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102632	-95.405820	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102633	-95.405821	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102635	-95.405824	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102640	-95.405823	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102911	-95.405793	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.102911	-95.405793	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103097	-95.405801	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103097	-95.405801	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103377	-95.405799	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103377	-95.405799	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103377	-95.405799	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103699	-95.405781	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.103698	-95.405780	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.104033	-95.405766	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.104034	-95.405766	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.104034	-95.405766	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.104288	-95.405750	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.104287	-95.405752	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.104488	-95.405733	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.104488	-95.405733	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.104704	-95.405730	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.104703	-95.405729	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.104884	-95.405714	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.104883	-95.405714	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.105084	-95.405701	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.105084	-95.405699	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.105453	-95.405682	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.105450	-95.405686	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.105839	-95.405682	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.105837	-95.405684	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-F	30.105837	-95.405684	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.106261	-95.405670	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.106261	-95.405670	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.106484	-95.405646	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.106484	-95.405643	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.106698	-95.405622	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.106698	-95.405622	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.106903	-95.405609	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.106906	-95.405609	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107532	-95.405568	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107532	-95.405568	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107532	-95.405568	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107532	-95.405568	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107822	-95.405556	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107821	-95.405555	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.107823	-95.405555	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.108241	-95.405540	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.108241	-95.405540	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.108241	-95.405540	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.108516	-95.405525	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.108514	-95.405524	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109294	-95.405467	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109293	-95.405467	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109293	-95.405467	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109768	-95.405431	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109768	-95.405431	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109969	-95.405420	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.109969	-95.405419	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110162	-95.405429	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110162	-95.405428	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110775	-95.405439	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110775	-95.405439	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110775	-95.405439	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.110966	-95.405452	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-F	30.110967	-95.405451	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.111038	-95.405494	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.111039	-95.405496	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.111040	-95.405495	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.111423	-95.405538	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.111422	-95.405538	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.111422	-95.405538	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.111559	-95.405588	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.111566	-95.405588	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.111570	-95.405589	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.111659	-95.405608	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.111659	-95.405607	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.111754	-95.405617	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.111755	-95.405617	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.111866	-95.405607	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.111866	-95.405606	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.111989	-95.405611	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.111990	-95.405611	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.112105	-95.405616	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.112105	-95.405616	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.112280	-95.405606	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.112280	-95.405606	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.112385	-95.405593	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.112451	-95.405583	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.112451	-95.405583	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.112508	-95.405573	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.112508	-95.405573	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.112582	-95.405556	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.112583	-95.405556	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.112584	-95.405555	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.112592	-95.405559	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.112685	-95.405495	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.112685	-95.405495	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.113017	-95.405209	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.113016	-95.405207	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-F	30.113359	-95.404861	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.113359	-95.404861	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.113359	-95.404860	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.113470	-95.404741	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.113470	-95.404741	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.113470	-95.404741	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.113470	-95.404741	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.113671	-95.404549	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.113672	-95.404546	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.113719	-95.404455	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.113856	-95.404316	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.113855	-95.404316	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114045	-95.404158	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114214	-95.404007	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114215	-95.404007	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114474	-95.403800	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114475	-95.403797	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114594	-95.403715	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114594	-95.403715	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114594	-95.403715	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114596	-95.403715	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114674	-95.403659	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114675	-95.403658	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114756	-95.403639	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114845	-95.403555	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.114844	-95.403554	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.115220	-95.403314	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.115220	-95.403314	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.115427	-95.403187	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.115425	-95.403185	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.115706	-95.403042	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.115705	-95.403042	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.116400	-95.402947	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.116400	-95.402946	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.116522	-95.402914	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW



NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-F	30.116522	-95.402914	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.116523	-95.402914	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.116524	-95.402919	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.116751	-95.402903	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.116751	-95.402901	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.116960	-95.402920	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.116960	-95.402920	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.116960	-95.402920	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.116962	-95.402924	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.117312	-95.402907	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.117312	-95.402907	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.117312	-95.402906	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.117663	-95.402924	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.117663	-95.402924	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.117956	-95.402926	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.117955	-95.402927	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118238	-95.402911	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118238	-95.402911	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118471	-95.402939	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118472	-95.402939	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118472	-95.402942	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118848	-95.402948	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118848	-95.402948	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118848	-95.402948	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.118848	-95.402948	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.119295	-95.402947	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.119295	-95.402947	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.119294	-95.402946	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.119626	-95.402963	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.119625	-95.402964	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.119838	-95.402970	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.119840	-95.402969	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.119837	-95.402968	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.120283	-95.402993	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.120284	-95.402992	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW

NAD 1983										
Feature	Latitude	Longitude	Max PDOP (6 or less)	Processing Type	Device	Date	Time	Precision	Number of Satellites	Initials of collector
Channel III-F	30.120284	-95.402992	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.120418	-95.402977	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.120419	-95.402977	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.120875	-95.403016	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.120875	-95.403017	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.121597	-95.403105	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.121597	-95.403104	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.121954	-95.403151	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW
Channel III-F	30.122968	-95.403142	5.9	L1L2 Postprocessed Carrier Float	Geo 7X (H-Star)	9/29/2019	07:18:31am	0.6	6+	DR, PW, CW

## Appendix C: Level 2 Stream Condition Assessment Data Forms

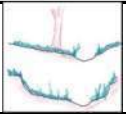
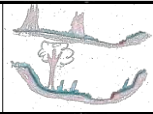
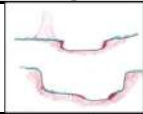
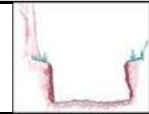
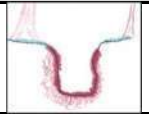
Actual Reach Condition Index						
MCDD6 Channels III-A, III-C, III-D, III-E, and III-F						
Transect	1. CV - Channel Condition	2. BV - Riparian Buffers	3. AV - Channel Alteration	4. MV - In-Stream Macroinvertebrate Observation	5. FV - Regionalized Index of Biotic Integrity (Fish)	Condition Index
T-1	1.00	2.10	1.00	2.00	3.00	1.82
T-2	1.00	1.70	1.00	2.00	3.00	1.74
T-3	1.00	1.92	1.00	2.00	3.00	1.78
T-4	1.00	1.86	1.00	2.00	3.00	1.77
T-5	1.00	1.72	1.00	2.00	3.00	1.74
T-6	1.00	1.66	1.00	2.00	2.00	1.53
T-7	1.00	1.86	1.00	2.00	2.00	1.57
T-8	1.00	1.82	1.00	3.00	3.00	1.96
T-9	1.00	1.80	1.00	2.00	3.00	1.76
T-10	1.00	1.63	1.00	3.00	3.00	1.93
T-11	1.00	1.92	1.00	2.00	2.00	1.58
T-12	1.00	2.20	1.00	2.00	3.00	1.84
T-13	1.00	2.46	1.00	3.00	3.00	2.09
T-14	1.00	2.60	1.00	4.00	3.00	2.32
T-15	1.00	2.58	1.00	2.00	2.00	1.72
T-16	1.00	2.97	1.00	3.00	3.00	2.19
T-17	1.00	2.65	1.00	3.00	2.00	1.93
T-18	1.00	2.46	1.00	4.00	3.00	2.29
T-19	1.00	2.44	1.00	3.00	3.00	2.09
T-20	1.00	2.22	1.00	3.00	4.00	2.24
T-21	1.00	2.69	1.00	4.00	3.00	2.34
T-22	1.00	3.07	1.00	3.00	3.00	2.21
T-23	1.00	2.09	1.00	3.00	3.00	2.02
T-24	1.00	2.13	1.00	2.00	2.00	1.63
T-25	1.00	2.44	1.00	4.00	2.00	2.09
T-26	1.00	2.30	1.00	4.00	3.00	2.26
T-27	1.00	2.16	1.00	3.00	3.00	2.03
T-28	1.00	3.03	1.00	3.00	3.00	2.21
T-29	1.00	3.14	1.00	4.00	4.00	2.63
T-30	1.00	2.35	1.00	3.00	2.00	1.87
T-31	1.00	2.18	1.00	5.00	3.00	2.44
T-32	1.00	3.29	1.00	4.00	3.00	2.46
T-33	1.00	1.89	1.00	2.00	2.00	1.58
T-34	1.00	1.89	1.00	5.00	3.00	2.38
T-35	1.00	1.82	1.00	5.00	2.00	2.16
T-36	1.00	2.31	1.00	3.00	3.00	2.06
T-37	1.00	2.55	1.00	3.00	2.00	1.91
T-38	1.00	2.40	1.00	4.00	3.00	2.28
T-39	1.00	2.20	1.00	4.00	4.00	2.44
T-40	1.00	2.93	1.00	4.00	4.00	2.59
T-41	1.00	2.50	1.00	3.00	4.00	2.30

Transect	1. CV - Channel Condition	2. BV - Riparian Buffers	3. AV - Channel Alteration	4. MV - In-Stream Macroinvertebrate Observation	5. FV - Regionalized Index of Biotic Integrity (Fish)	Condition Index
T-42	1.00	2.00	1.00	4.00	3.00	2.20
T-43	1.00	1.84	1.00	4.00	4.00	2.37
T-44	1.00	1.94	1.00	4.00	2.00	1.99
T-45	1.00	1.77	1.00	2.00	2.00	1.55
T-46	1.00	1.95	1.00	3.00	2.00	1.79
T-47	1.00	1.96	1.00	3.00	4.00	2.19
T-48	1.00	1.96	1.00	4.00	4.00	2.39
T-49	1.00	1.88	1.00	4.00	4.00	2.38
T-50	1.00	1.90	1.00	3.00	2.00	1.78
T-51	1.00	1.97	1.00	3.00	2.00	1.79
T-52	1.00	1.98	1.00	3.00	3.00	2.00
T-53	1.00	1.99	1.00	3.00	3.00	2.00
T-54	1.00	2.22	1.00	2.00	3.00	1.84
T-55	1.00	2.17	1.00	3.00	3.00	2.03
T-56	1.00	2.09	1.00	4.00	4.00	2.42
T-57	1.00	2.23	1.00	4.00	4.00	2.45
T-58	1.00	2.11	1.00	2.00	3.00	1.82
T-59	1.00	2.28	1.00	3.00	3.00	2.06
T-60	1.00	2.01	1.00	2.00	3.00	1.80
T-61	1.00	1.58	1.00	2.00	3.00	1.72
T-62	1.00	2.35	1.00	3.00	2.00	1.87
T-63	1.00	2.16	1.00	3.00	2.00	1.83
T-64	1.00	2.38	1.00	3.00	3.00	2.08
T-65	1.00	2.33	1.00	3.00	3.00	2.07
T-66	1.00	2.16	1.00	3.00	4.00	2.23
T-67	1.00	2.48	1.00	3.00	3.00	2.10
T-68	1.00	1.98	1.00	3.00	3.00	2.00
T-69	1.00	1.98	1.00	4.00	2.00	2.00
T-70	1.00	2.08	1.00	2.00	3.00	1.82
T-71	1.00	2.47	1.00	2.00	2.00	1.69
T-72	1.00	2.44	1.00	2.00	2.00	1.69
T-73	1.00	2.43	1.00	2.00	2.00	1.69
T-74	1.00	2.43	1.00	2.00	3.00	1.89
T-75	1.00	2.97	1.00	2.00	2.00	1.79
T-76	1.00	2.52	1.00	2.00	2.00	1.70
T-77	1.00	2.65	1.00	4.00	2.00	2.13
T-78	1.00	2.53	1.00	2.00	2.00	1.71
T-79	1.00	2.12	1.00	2.00	3.00	1.82
T-80	1.00	2.58	1.00	2.00	2.00	1.72
Reach Condition Index						2.00

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-1
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Concrete lined channel, trees, school driveway, houses, yards, channel partially sub-grade in culvert								
Right Bank	% Riparian Area	18%	42%	40%			100%	
	Score	1	2	4.5				
Left Bank	% Riparian Area	63%	37%				100%	Rt Bk CI > 2.82
	Score	1	2					Lt Bk CI > 1.37
							2.10	



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-1

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 50% concrete lining, 50% sub-grade culvert, no access to floodplain

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Aquatic worm	Class Oligochaeta	1	8	8	
		Total	1		8	
	<i>Melanoides tuberculata</i>	Family Thiaridae	1	none		
	HBI				8.00	2.00
	<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)					

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-1

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	392			
	Total		392			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				36		
				FV		
				3.00		

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

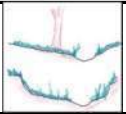
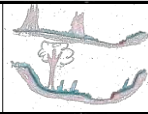
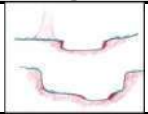

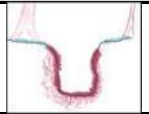
Notes: Collection method - seine 10/11/2020

Condition Index	1.82
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-2
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	<p>Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.</p>	<p>Native plant species &gt;60% coverage with no wetlands &amp; no maintenance or grazing OR native community species 30-59% with wetlands &amp; no maintenance or grazing within the buffer.</p>	<p>Native plant species 30-59% coverage with no wetlands &amp; no maintenance or grazing activities present within the buffer.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>		<p>The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.</p>	<p>The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.</p>
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, school parking lot & track, houses, pools, channel partially sub-grade, concrete lining								
Right Bank	% Riparian Area	45%	55%				100%	
	Score	1	2					
Left Bank	% Riparian Area	16%	84%				100%	Rt Bk Cl > 1.55
	Score	1	2					Lt Bk Cl > 1.84
							1.70	

3. Channel Alteration: Assess the extent of anthropogenic channel alterations.	
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3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Notes: 100% Channelization, 25% sub-grade culvert, 15% concrete lining/riprap, no floodplain access

4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV  2.00
	Damselfly	Suborder Zygoptera	4	7	28	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	16	6	96	
	Lunged snail	Order Limnophila	7	7	49	
	Aquatic worm	Class Oligochaeta	2	8	16	
		Total	31		199	
HBI					6.42	
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-2

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	312			
	Total		312			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				36		
				FV		
				3.00		

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

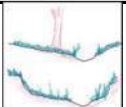
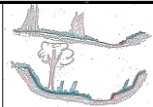
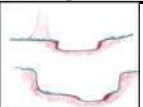
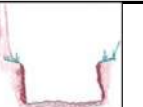
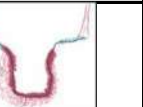
Notes: Collection method - seine 10/11/2020

Condition Index	1.74
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-3
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	<p>Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.</p>	<p>Native plant species &gt;60% coverage with no wetlands &amp; no maintenance or grazing OR native community species 30-59% with wetlands &amp; no maintenance or grazing within the buffer.</p>	<p>Native plant species 30-59% coverage with no wetlands &amp; no maintenance or grazing activities present within the buffer.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>		<p>The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.</p>
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, Oak Ridge School Rd. ditch, Soccer field, concrete lining at confluence

Right Bank	% Riparian Area	14%	86%				100%	
	Score	1	2					
Left Bank	% Riparian Area	3%	97%				100%	Rt Bk CI > 1.86
	Score	1	2					Lt Bk CI > 1.97



# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-3

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 13% concrete lining, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	
	Riffle beetle	Family Elmidae	1	3	3	
	Mayfly	Order Ephemeroptera	2	3	6	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	3	7	21	
	Whirligig Beetle	Family Gyrinidae	1	6	6	
	Scud	Order Amphipoda	16	6	96	
	Lunged snail	Order Limnophila	78	7	546	
	Aquatic worm	Class Oligochaeta	2	8	16	
		Total	104		699	MV
	HBI					6.72
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-3

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	423			
	Total		423			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				36		
				FV		
				3.00		

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

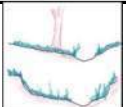
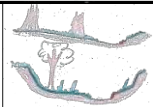
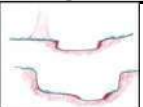
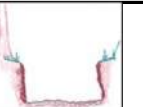

Notes: Collection method - seine 10/11/2020

Condition Index 1.78

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-4
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	<p>Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.</p>	<p>Native plant species &gt;60% coverage with no wetlands &amp; no maintenance or grazing OR native community species 30-59% with wetlands &amp; no maintenance or grazing within the buffer.</p>	<p>Native plant species 30-59% coverage with no wetlands &amp; no maintenance or grazing activities present within the buffer.</p>	<p>Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>		<p>The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.</p>
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, road, houses, pedestrian bridge, culverts							
Right Bank	% Riparian Area	9%	91%				100%
	Score	1	2				
Left Bank	% Riparian Area	19%	81%				100%
	Score	1	2				
						Rt Bk CI >	1.91
						Lt Bk CI >	1.81
							1.86

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-4

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 3 culverts, footings for pipeline crossing, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	4	3	12	
	Crane fly	Family Tipulidae	12	4	48	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	11	7	77	
	Scud	Order Amphipoda	25	6	150	
		Total	53		292	
HBI					5.51	2.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-4

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	405			
	Total		405			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				36		
				FV		
				3.00		

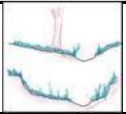
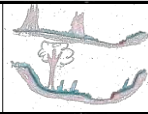
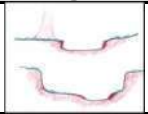
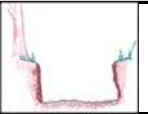
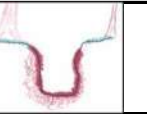
Notes: Collection method - seine 10/11/2020

Condition Index	1.77
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-5
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, road, houses, pools, yards							
Right Bank	% Riparian Area	48%	52%				100%
	Score	1	2				
Left Bank	% Riparian Area	9%	91%				100%
	Score	1	2				
						Rt Bk CI >	1.52
						Lt Bk CI >	1.91
							1.72



# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-5

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 3 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	8	3	24	
	Mussel	Order Heterodonta	2	6	12	
	Crayfish	Family Cambaridae	2	5	10	
	Damselfly	Suborder Zygoptera	5	7	35	
	Dragonfly	Suborder Anisoptera	9	5	45	
	Scud	Order Amphipoda	30	6	180	
	Lunged snail	Order Limnophila	11	7	77	
		Total	67		383	
HBI					5.72	2.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-5

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	594			
	Total		594			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				36		
				FV		
				3.00		

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

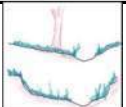
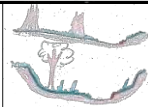
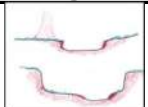
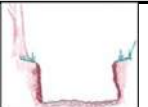
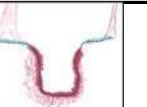
Notes: Collection method - seine 10/11/2020

Condition Index	1.74
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-6
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, houses, pools, yards, parking lot, soccer field, concrete lining, riprap

Right Bank	% Riparian Area	30%	70%				100%	
	Score	1	2					
Left Bank	% Riparian Area	38%	62%				100%	Rt Bk CI > 1.7
	Score	1	2					Lt Bk CI > 1.62



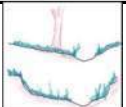
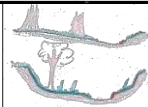
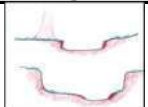
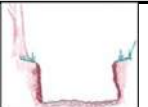
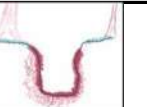
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine 10/11/2020, gut parasites

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-7
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, houses, yards, soccer field, playground/school yard

Right Bank	% Riparian Area	28%	72%				100%	
	Score	1	2					
Left Bank	% Riparian Area	1%	99%				100%	Rt Bk CI > 1.72
	Score	1	2					Lt Bk CI > 1.99



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-7

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no access to floodplain

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Riffle beetle	Family Elmidae	1	3	3	
	Mayfly	Order Ephemeroptera	10	3	30	
	Caddisfly	Order Trichoptera	1	3	3	
	Mussel	Order Heterodonta	7	6	42	
	Damselfly	Suborder Zygoptera	10	7	70	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	41	6	246	
	Lunged snail	Order Limnophila	7	7	49	
	Leech	Order Hirudinea	1	8	8	
		Total	79		456	
	HBI				5.77	2.00
	<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)					

Notes: 10/16/2020

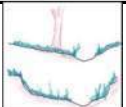
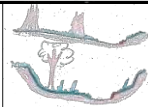
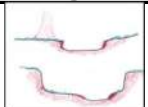
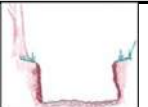
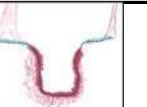
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine 10/11/2020, gut parasites

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-8
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	<p>Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.</p>	<p>Native plant species &gt;60% coverage with no wetlands &amp; no maintenance or grazing OR native community species 30-59% with wetlands &amp; no maintenance or grazing within the buffer.</p>	<p>Native plant species 30-59% coverage with no wetlands &amp; no maintenance or grazing activities present within the buffer.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>		<p>The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.</p>
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, school, houses, yards, concrete lining, drop structure							
Right Bank	% Riparian Area	21%	79%				100%
	Score	1	2				
Left Bank	% Riparian Area	15%	85%				100%
	Score	1	2				
						Rt Bk CI >	1.79
						Lt Bk CI >	1.85
							1.82

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-8

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, riprap, 2 culverts, concrete drop structure, pipeline crossing footings, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	13	3	39	
	Gilled snail	Order Mesogastropoda	7	3	21	
	Damselfly	Suborder Zygoptera	3	7	21	
	Dragonfly	Suborder Anisoptera	6	5	30	
	Scud	Order Amphipoda	28	6	168	
		Total	57		279	
	<i>Melanoides tuberculata</i>	Family Thiaridae	3	none		
	HBI				4.89	3.00
	<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)					

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-8

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	428			
	Total		428			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				36		
				FV		
				3.00		

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

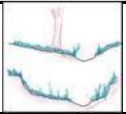
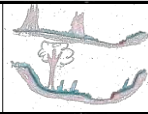
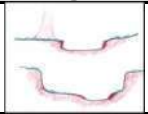
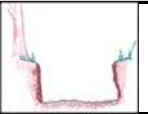
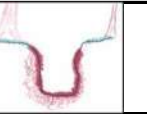
Notes: Collection method - seine 10/11/2020

Condition Index	1.96
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-9
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, parking lots, concrete lining, road, bridge, sidewalks

Right Bank	% Riparian Area	24%	76%				100%	
	Score	1	2					
Left Bank	% Riparian Area	17%	83%				100%	Rt Bk CI > 1.76
	Score	1	2					Lt Bk CI > 1.83



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-9

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable effects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, riprap, box culverts

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	4	3	12	
	Gilled snail	Order Mesogastropoda	9	3	27	
	Mussel	Order Heterodonta	11	6	66	
	Damselfly	Suborder Zygoptera	13	7	91	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	31	6	186	
	Lunged snail	Order Limnophila	2	7	14	
	Aquatic worm	Class Oligochaeta	2	8	16	
		Total	74		422	
	<i>Melanoides tuberculata</i>	Family Thiaridae	1	none		
HBI					5.70	2.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-9

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	539			
	Total		539			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				36		
				FV		
				3.00		

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

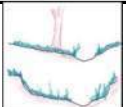
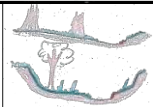
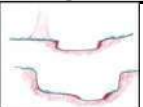
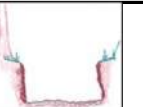

Notes: Collection method - seine 10/11/2020

Condition Index 1.76

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-10
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, structures, parking lots, backyards								
Right Bank	% Riparian Area	30%	70%				100%	
	Score	1	2					
Left Bank	% Riparian Area	45%	55%				100%	Rt Bk CI > 1.70
	Score	1	2					Lt Bk CI > 1.55
								1.63

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-10

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Riffle beetle	Family Elmidae	2	3	6	
	Mayfly	Order Ephemeroptera	37	3	111	
	Gilled snail	Order Mesogastropoda	4	3	12	
	Mussel	Order Heterodonta	17	6	102	
	Crayfish	Family Cambaridae	2	5	10	
	Damselfly	Suborder Zygoptera	7	7	49	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Sowbug	Order Isopoda	2	9	18	
	Scud	Order Amphipoda	45	6	270	
	Lunged snail	Order Limnophila	5	7	35	
	Aquatic worm	Class Oligochaeta	1	8	8	
		Total	125		636	
	Melanoides tuberculata	Family Thiaridae	2	none		
	HBI					
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-10

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	821			
	Total		821			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				36		
				FV		
				3.00		

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

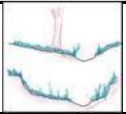
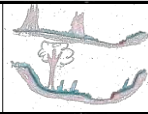
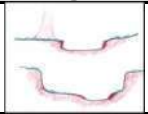
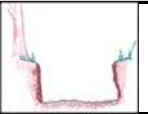
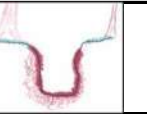
Notes: Collection method - seine 10/11/2020

Condition Index 1.93

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-11
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A & III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	<p>Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.</p>	<p>Native plant species &gt;60% coverage with no wetlands &amp; no maintenance or grazing OR native community species 30-59% with wetlands &amp; no maintenance or grazing within the buffer.</p>	<p>Native plant species 30-59% coverage with no wetlands &amp; no maintenance or grazing activities present within the buffer.</p>	<p>Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>		<p>The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.</p>
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, gas station, mechanic shop, railroad crossing, Hanna Road, forested area							
Right Bank	% Riparian Area	42%	43%	15%			100%
	Score	1	2	4.5			
Left Bank	% Riparian Area	47%	39%	14%			100%
	Score	1	2	4.5			
						Rt Bk CI >	1.96
						Lt Bk CI >	1.88
							1.92



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-11

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, box culverts under Hanna Road, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	8	3	24	
	Caddisfly	Order Trichoptera	3	3	9	
	Mussel	Order Heterodonta	2	6	12	
	Damselfly	Suborder Zygoptera	2	7	14	
	Whirligig Beetle	Family Gyrinidae	1	6	6	
	Scud	Order Amphipoda	11	6	66	
	Lunged snail	Order Limnophila	58	7	406	
		Total	85		537	
	<i>Melanoides tuberculata</i>	Family Thiaridae	9	none		
HBI					6.32	2.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-11

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Mosquitofish	<i>Gambusia affinis</i>	128				

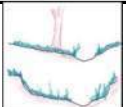
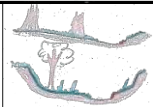
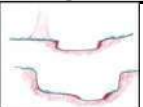
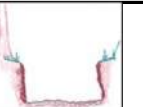

Notes: Collection method - seine 10/11/2020

Condition Index	1.58
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-12
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, park/baseball field, parking lot, forested railroad ROW							
Right Bank	% Riparian Area	8%	70%	22%			100%
	Score	1	2	4.5			
Left Bank	% Riparian Area	7%	93%				100%
	Score	1	2				
						Rt Bk CI >	2.47
						Lt Bk CI >	1.93
							2.20

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-12

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, culvert, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Riffle beetle	Family Elmidae	1	3	3	
	Mayfly	Order Ephemeroptera	17	3	51	
	Caddisfly	Order Trichoptera	4	3	12	
	Damselfly	Suborder Zygoptera	18	7	126	
	Dragonfly	Suborder Anisoptera	5	5	25	
	Scud	Order Amphipoda	30	6	180	
	Lunged snail	Order Limnophila	11	7	77	
		Total	86		474	
				HBI	5.51	2.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-12

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	671			
	Total		671			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				36		
				FV		
				3.00		

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

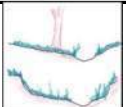
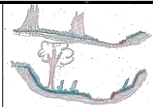
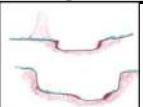

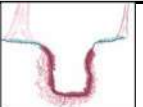
Notes: Collection method - seine 10/11/2020

Condition Index	1.84
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-13
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, concrete drop structure, concrete intake structure, forested area, park							
Right Bank	% Riparian Area	3%	80%	17%			100%
	Score	1	2	4.5			
Left Bank	% Riparian Area	3%	75%	22%			100%
	Score	1	2	4.5			
						Rt Bk CI >	2.40
						Lt Bk CI >	2.52
							2.46



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-13

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, concrete drop structure, riprap, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	21	3	63	
	Gilled snail	Order Mesogastropoda	5	3	15	
	Mussel	Order Heterodonta	5	6	30	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	7	7	49	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Scud	Order Amphipoda	14	6	84	
	Lunged snail	Order Limnophila	5	7	35	
	Freshwater shrimp	Family Palaemonidae	5	4	20	
		Total	66		316	
	<i>Melanoides tuberculata</i>	Family Thiaridae	3	none		
HBI					4.79	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-13

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

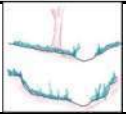
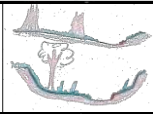
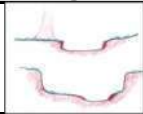
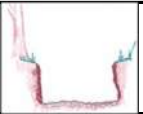
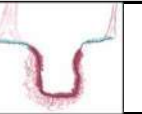
Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Bluegill	<i>Lepomis macrochirus</i>	3				
	Bullhead Minnow	<i>Pimephales vigilax</i>	5				
	Golden Topminnow	<i>Fundulus chrysotus</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	312				
	Sailfin Molly	<i>Poecilia latipinna</i>	7				
		Total	329				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	3
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							FV
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						3.00
Notes: Collection method - seine 10/7/2020							

Condition Index | 2.09

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-14
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested area, lay-down behind business							
Right Bank	% Riparian Area	8%	67%	25%			100%
	Score	1	2	4.5			
Left Bank	% Riparian Area	74%	26%				100%
	Score	2	4.5				
						Rt Bk CI >	2.55
						Lt Bk CI >	2.65
							2.60

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-14

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	2	3	6	
	Stonefly	Order Plecoptera	6	1	6	
	Dragonfly	Suborder Anisoptera	5	5	25	
	Scud	Order Amphipoda	6	6	36	
	Lunged snail	Order Limnophila	6	7	42	
	Freshwater shrimp	Family Palaemonidae	4	4	16	
		Total	29		131	
	HBI				4.52	4.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-14

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	3			
	Bluegill	<i>Lepomis macrochirus</i>	5			
	Bullhead Minnow	<i>Pimephales vigilax</i>	2			
	Golden Topminnow	<i>Fundulus chrysotus</i>	11			
	Green Sunfish	<i>Lepomis cyanellus</i>	2			
	Mosquitofish	<i>Gambusia affinis</i>	205			
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1			
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	1			
	Sailfin Molly	<i>Poecilia latipinna</i>	108			
		Total	338			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				38		
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)			FV		
				3.00		

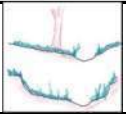
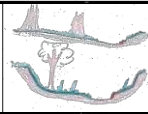
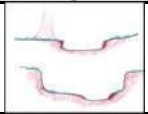
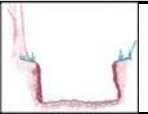
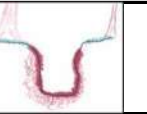
Notes: Collection method - seine 10/7/2020

Condition Index	2.32
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-15
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	<p>Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.</p>	<p>Native plant species &gt;60% coverage with no wetlands &amp; no maintenance or grazing OR native community species 30-59% with wetlands &amp; no maintenance or grazing within the buffer.</p>	<p>Native plant species 30-59% coverage with no wetlands &amp; no maintenance or grazing activities present within the buffer.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>		<p>The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.</p>
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, grazing, commercial storage containers, forested areas							
Right Bank	% Riparian Area	7%	60%	33%			100%
	Score	1	2	4.5			
Left Bank	% Riparian Area	84%	16%				100%
	Score	2	4.5				
						Rt Bk CI >	2.76
						Lt Bk CI >	2.40
							2.58



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-15

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	12	3	36	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	10	7	70	
	Dragonfly	Suborder Anisoptera	6	5	30	
	Scud	Order Amphipoda	31	6	186	
	Lunged snail	Order Limnophila	8	7	56	
	Freshwater shrimp	Family Palaemonidae	6	4	24	
		Total	74		407	
	HBI				5.50	2.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-15

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Bluegill	<i>Lepomis macrochirus</i>	3			
	Creek Chubsucker	<i>Erimyzon oblongus</i>	1			
	Golden Topminnow	<i>Fundulus chrysotus</i>	5			
	Mosquitofish	<i>Gambusia affinis</i>	364			
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1			
	Sailfin Molly	<i>Poecilia latipinna</i>	79			
		Total	453			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				34		
				FV		
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)			2.00		

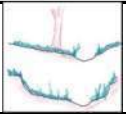
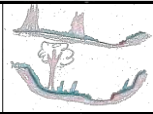
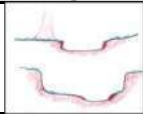
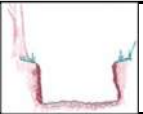
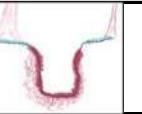
Notes: Collection method - seine 10/7/2020

Condition Index	1.72
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-16
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Building, parking lot, maintained ROW, concrete lining, forested areas							
Right Bank	% Riparian Area	12%	49%	39%			100%
	Score	1	2	4.5			
Left Bank	% Riparian Area	7%	47%	46%			100%
	Score	1	2	4.5			
						Rt Bk CI >	2.86
						Lt Bk CI >	3.08
							2.97

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-16

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	14	3	42	
	Mussel	Order Heterodonta	18	6	108	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	32	6	192	
	Lunged snail	Order Limnophila	6	7	42	
	Freshwater shrimp	Family Palaemonidae	27	4	108	
		Total	98		497	
	<i>Melanoides tuberculata</i>	Family Thiaridae	1	none		
HBI					5.07	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-16

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	25				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	43				
	Bluegill	<i>Lepomis macrochirus</i>	45				
	Creek Chubsucker	<i>Erimyzon oblongus</i>	4				
	Golden Topminnow	<i>Fundulus chrysotus</i>	4				
	Green Sunfish	<i>Lepomis cyanellus</i>	11				
	Largemouth Bass	<i>Micropterus salmoides</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	509				
	Redbreast Sunfish	<i>Lepomis auritus</i>	1				
	Redear Sunfish	<i>Lepomis microlophus</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	12				
	Sailfin Molly	<i>Poecilia latipinna</i>	392				
	Total	Total	1049				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			5
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	5
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	3
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

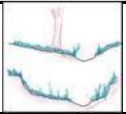
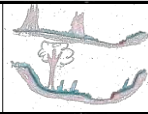
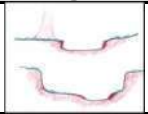
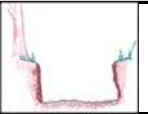
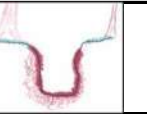
Notes: Collection method - seine 10/7/2020

Condition Index	2.19
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-17
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, parking lot/lay-down yard, concrete intake structure, forested area							
Right Bank	% Riparian Area	10%	56%	34%			100%
	Score	1	2	4.5			
Left Bank	% Riparian Area	78%	22%			100%	Rt Bk Cl > 2.75
	Score	2	4.5				Lt Bk Cl > 2.55
							2.65



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-17

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	40	3	120	
	Damselfly	Suborder Zygoptera	3	7	21	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	37	6	222	
	Lunged snail	Order Limnophila	7	7	49	
	Freshwater shrimp	Family Palaemonidae	15	4	60	
		Total	103		477	
				HBI	4.63	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-17

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	1				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	4				
	Golden Topminnow	<i>Fundulus chrysotus</i>	4				
	Mosquitofish	<i>Gambusia affinis</i>	422				
	Redfin Pickerel	<i>Esox americanus</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	1				
	Sailfin Molly	<i>Poecilia latipinna</i>	85				
		Total	518				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			34
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

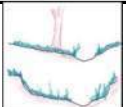
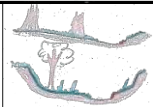
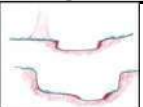
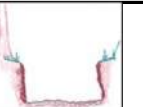

Notes: Collection method - seine 10/7/2020

Condition Index	1.93
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-18
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	<p>Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.</p>	<p>Native plant species &gt;60% coverage with no wetlands &amp; no maintenance or grazing OR native community species 30-59% with wetlands &amp; no maintenance or grazing within the buffer.</p>	<p>Native plant species 30-59% coverage with no wetlands &amp; no maintenance or grazing activities present within the buffer.</p>	<p>Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>		<p>The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.</p>
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, building, parking lot, forested area, concrete intake structures							
Right Bank	% Riparian Area	20%	80%			100%	
	Score	1	2				
Left Bank	% Riparian Area	55%	45%			100%	Rt Bk CI > 1.80
	Score	2	4.5				Lt Bk CI > 3.13
							2.46

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-18

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	24	3	72	
	Damselfly	Suborder Zygoptera	1	7	7	
	Scud	Order Amphipoda	5	6	30	
	Lunged snail	Order Limnophila	7	7	49	
	Freshwater shrimp	Family Palaemonidae	48	4	192	
		Total	85		350	
				HBI	4.12	4.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-18

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	12				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	34				
	Bluegill	<i>Lepomis macrochirus</i>	37				
	Creek Chubsucker	<i>Erimyzon oblongus</i>	1				
	Golden Topminnow	<i>Fundulus chrysotus</i>	3				
	Green Sunfish	<i>Lepomis cyanellus</i>	25				
	Largemouth bass	<i>Micropterus salmoides</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	474				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	3				
	Sailfin Molly	<i>Poecilia latipinna</i>	192				
		Total	783				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			5
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	5
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			40
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

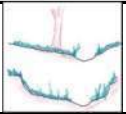
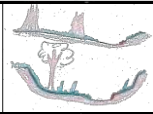
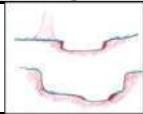
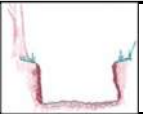
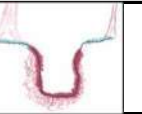
Notes: Collection method - seine 10/7/2020

Condition Index	2.29
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-19
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, building, parking lot, riprap, drainage ditch, forested area

Right Bank	% Riparian Area	22%	78%				100%	
	Score	1	2					
Left Bank	% Riparian Area	2%	53%	45%			100%	Rt Bk CI > 1.78
	Score	1	2	4.5				Lt Bk CI > 3.11



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-19

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable effects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap at confluence with ditch, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	27	3	81	
	Damselfly	Suborder Zygoptera	13	7	91	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	4	6	24	
	Lunged snail	Order Limnophila	15	7	105	
	Freshwater shrimp	Family Palaemonidae	25	4	100	
		Total	86		411	
HBI					4.78	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-19

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	14				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	27				
	Bluegill	<i>Lepomis macrochirus</i>	51				
	Creek Chubsucker	<i>Erimyzon oblongus</i>	5				
	Golden Topminnow	<i>Fundulus chrysotus</i>	8				
	Longear Sunfish	<i>Lepomis megalotis</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	394				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	14				
	Sailfin Molly	<i>Poecilia latipinna</i>	232				
		Total	747				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			36
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

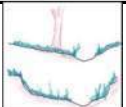
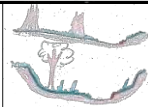
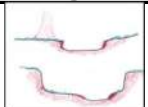
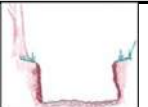
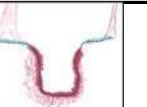
Notes: Collection method - seine 10/7/2020

Condition Index	2.09
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-20
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	<p>Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.</p>	<p>Native plant species &gt;60% coverage with no wetlands &amp; no maintenance or grazing OR native community species 30-59% with wetlands &amp; no maintenance or grazing within the buffer.</p>	<p>Native plant species 30-59% coverage with no wetlands &amp; no maintenance or grazing activities present within the buffer.</p>	<p>Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>		<p>The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.</p>
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, residential yards, fire station, trees, dirt driveway

Right Bank	% Riparian Area	14%	86%				100%	
	Score	1	2					
Left Bank	% Riparian Area	5%	70%	25%			100%	Rt Bk Cl > 1.86
	Score	1	2	4.5				Lt Bk Cl > 2.575

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-20

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Riffle beetle	Family Elmidae	1	3	3	
	Mayfly	Order Ephemeroptera	28	3	84	
	Gilled snail	Order Mesogastropoda	5	3	15	
	Damselfly	Suborder Zygoptera	6	7	42	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	28	6	168	
	Lunged snail	Order Limnophila	12	7	84	
	Freshwater shrimp	Family Palaemonidae	64	4	256	
		Total	146		662	
	<i>Melanoides tuberculata</i>	Family Thiaridae	8	none		
HBI					4.53	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-20

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	8				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	46				
	Bluegill	<i>Lepomis macrochirus</i>	4				
	Brook Silversides	<i>Labidesthes sicculus</i>	1				
	Golden Topminnow	<i>Fundulus chrysotus</i>	6				
	Mosquitofish	<i>Gambusia affinis</i>	193				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	3				
	Sailfin Molly	<i>Poecilia latipinna</i>	3				
		Total	264				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			42
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

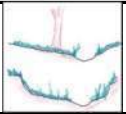
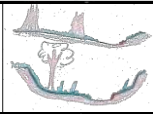
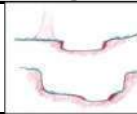
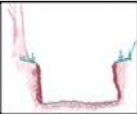
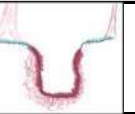
Notes: Collection method - seine 10/7/2020

Condition Index	2.24
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-21
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested area, structures							
Right Bank	% Riparian Area	4%	62%	34%			100%
	Score	1	2	4.5			
Left Bank	% Riparian Area	4%	72%	24%			100%
	Score	1	2	4.5			
						Rt Bk CI >	2.81
						Lt Bk CI >	2.56
							2.69



# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-21

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, riprap, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	43	3	129	
	Damselfly	Suborder Zygoptera	3	7	21	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Scud	Order Amphipoda	3	6	18	
	Lunged snail	Order Limnophila	5	7	35	
	Freshwater shrimp	Family Palaemonidae	59	4	236	
		Total	116		454	
				HBI	3.91	4.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-21

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	26				
	Bluegill	<i>Lepomis macrochirus</i>	2				
	Green Sunfish	<i>Lepomis cyanellus</i>	3				
	Mosquitofish	<i>Gambusia affinis</i>	36				
	Redfin Pickerel	<i>Esox americanus</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	6				
	Sailfin Molly	<i>Poecilia latipinna</i>	32				
	Weed Shiner	<i>Notropis texanus</i>	1				
		Total	107				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			36
							<b>FV</b>

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), **36-41 Intermediate (3)**, <36 Limited (2), 0 Severe (1)

**3.00**

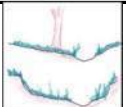
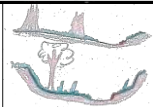
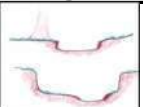
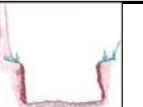
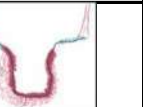
Notes: Collection method - seine 10/7/2020

Condition Index | 2.34

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-22
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested areas, concrete lining							
Right Bank	% Riparian Area	56%	44%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	1%	57%	42%			100%
	Score	1	2	4.5			
						Rt Bk Cl >	3.10
						Lt Bk Cl >	3.04
							3.07

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-22

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	24	3	72	
	Damselfly	Suborder Zygoptera	2	7	14	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Scud	Order Amphipoda	7	6	42	
	Lunged snail	Order Limnophila	21	7	147	
	Freshwater shrimp	Family Palaemonidae	29	4	116	
		Total	86		406	
	HBI				4.72	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

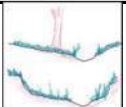
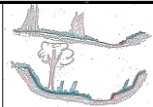
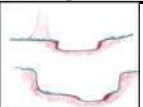
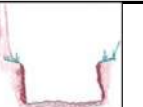
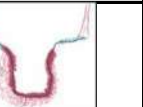
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine 10/7/2020

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-23
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, trees, horse stables/pasture							
Right Bank	% Riparian Area	77%	23%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	39%	61%				100%
	Score	1	2				
						Rt Bk CI >	2.58
						Lt Bk CI >	1.61
							2.09



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-23

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 3 culverts, riprap, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Riffle beetle	Family Elmidae	1	3	3	
	Mayfly	Order Ephemeroptera	24	3	72	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	2	7	14	
	Whirligig Beetle	Family Gyrinidae	1	6	6	
	Lunged snail	Order Limnophila	27	7	189	
	Freshwater shrimp	Family Palaemonidae	17	4	68	
		Total	73		357	
				HBI	4.89	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-23

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy	<i>Elassoma zonatum</i>	8				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	1				
	Golden Topminnow	<i>Fundulus chrysotus</i>	4				
	Largemouth Bass	<i>Micropterus</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	147				
	Orangespotted	<i>Lepomis humilis</i>	1				
	Sailfin Molly	<i>Poecilia latipinna</i>	62				
	Weed Shiner	<i>Notropis texanus</i>	2				
		Total	227				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			36
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						3.00

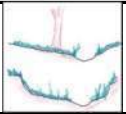
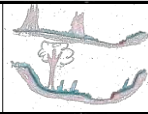
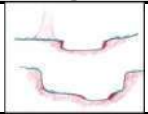

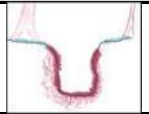
Notes: Collection method - seine 10/7/2020

Condition Index	2.02
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-24
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, mobile home park, waste water treatment plant, metal buildings

Right Bank	% Riparian Area	8%	92%				100%	
	Score	1	2					
Left Bank	% Riparian Area	9%	74%	17%			100%	Rt Bk CI > 1.92
	Score	1	2	4.5				Lt Bk CI > 2.34

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-24

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	5	3	15	
	Gilled snail	Order Mesogastropoda	2	3	6	
	Mussel	Order Heterodonta	2	6	12	
	Damselfly	Suborder Zygoptera	2	7	14	
	Dragonfly	Suborder Anisoptera	8	5	40	
	Scud	Order Amphipoda	3	6	18	
	Lunged snail	Order Limnophila	7	7	49	
	Aquatic worm	Class Oligochaeta	4	8	32	
	Freshwater shrimp	Family Palaemonidae	1	4	4	
		Total	34		190	
HBI					5.59	2.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020

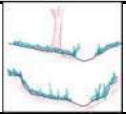
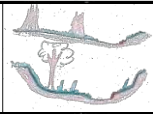
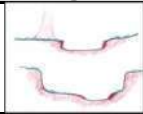
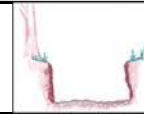
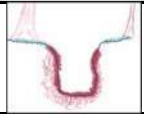
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine 10/7/2020

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-25
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, trees, pasture							
Right Bank	% Riparian Area	75%	25%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	90%	10%				100%
	Score	2	4.5				
						Rt Bk CI >	2.63
						Lt Bk CI >	2.25
							2.44



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-25

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	7	3	21	
	Mussel	Order Heterodonta	2	6	12	
	Damselfly	Suborder Zygoptera	2	7	14	
	Dragonfly	Suborder Anisoptera	6	5	30	
	Scud	Order Amphipoda	3	6	18	
	Lunged snail	Order Limnophila	7	7	49	
	Freshwater shrimp	Family Palaemonidae	111	4	444	
		Total	138		588	
				HBI	4.26	4.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

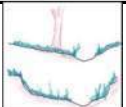
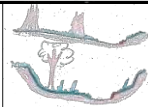
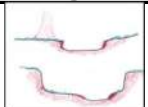
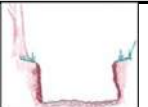
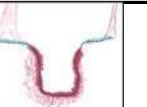
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine 10/7/2020

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-26
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested areas, pasture							
Right Bank	% Riparian Area	76%	24%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	100%					100%
	Score	2					
						Rt Bk CI >	2.60
						Lt Bk CI >	2.00
							2.30

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-26

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	3	3	9	
	Gilled snail	Order Mesogastropoda	2	3	6	
	Mussel	Order Heterodonta	5	6	30	
	Damselfly	Suborder Zygoptera	6	7	42	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	3	6	18	
	Lunged snail	Order Limnophila	5	7	35	
	Freshwater shrimp	Family Palaemonidae	90	4	360	
		Total	115		505	
				HBI	4.39	4.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-26

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	42				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	4				
	Bluegill	<i>Lepomis macrochirus</i>	7				
	Green Sunfish	<i>Lepomis cyanellus</i>	4				
	Mosquitofish	<i>Gambusia affinis</i>	88				
	Orangespotted	<i>Lepomis humilis</i>	1				
	Redbreast Sunfish	<i>Lepomis auritus</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma</i>	2				
	Sailfin Molly	<i>Poecilia latipinna</i>	39				
		Total	188				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	5
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			40
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

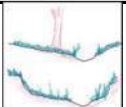
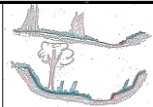
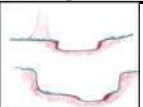
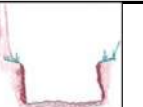
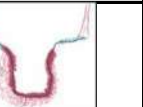
Notes: Collection method - seine 10/6/2020

Condition Index	2.26
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-27
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested areas, backyard, riprap, concrete intake structure							
Right Bank	% Riparian Area	87%	13%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	1%	99%				100%
	Score	1	2				
						Rt Bk CI >	2.33
						Lt Bk CI >	1.99
							2.16



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-27

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	13	3	39	
	Mussel	Order Heterodonta	2	6	12	
	Damselfly	Suborder Zygoptera	5	7	35	
	Dragonfly	Suborder Anisoptera	7	5	35	
	Whirligig Beetle	Family Gyrinidae	2	6	12	
	Scud	Order Amphipoda	12	6	72	
	Lunged snail	Order Limnophila	9	7	63	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	40	4	160	
		Total	91		436	
HBI					4.79	3.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-27

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	31				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	16				
	Bluegill	<i>Lepomis macrochirus</i>	8				
	Golden Topminnow	<i>Fundulus chrysotus</i>	4				
	Green Sunfish	<i>Lepomis cyanellus</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	42				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	3				
	Rio Grande Cichlid	<i>Cichlasoma</i>	2				
	Sailfin Molly	<i>Poecilia latipinna</i>	15				
		Total	122				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	3
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						3.00

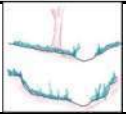
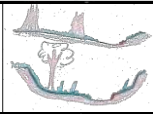
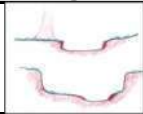
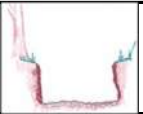
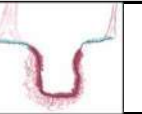
Notes: Collection method - seine 10/6/2020

Condition Index	2.03
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-28
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested areas							
Right Bank	% Riparian Area	79%	21%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	39%	61%				100%
	Score	2	4.5				
						Rt Bk CI >	2.53
						Lt Bk CI >	3.53
							3.03

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-28

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap at ditch confluence, culvert, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	13	3	39	
	Mussel	Order Heterodonta	23	6	138	
	Damselfly	Suborder Zygoptera	4	7	28	
	Dragonfly	Suborder Anisoptera	5	5	25	
	Scud	Order Amphipoda	8	6	48	
	Lunged snail	Order Limnophila	7	7	49	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	81	4	324	
		Total	142		659	
HBI					4.64	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-28

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	34				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	1				
	Bluegill	<i>Lepomis macrochirus</i>	56				
	Brook Silversides	<i>Labidesthes sicculus</i>	1				
	Green Sunfish	<i>Lepomis cyanellus</i>	4				
	Mosquitofish	<i>Gambusia affinis</i>	31				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	18				
	Sailfin Molly	<i>Poecilia latipinna</i>	13				
		Total	159				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	7
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			40
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

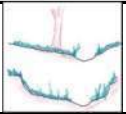
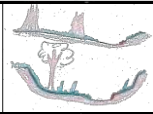
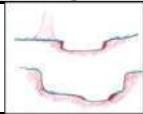
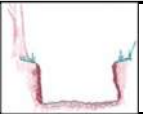
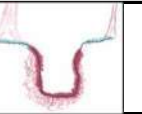
Notes: Collection method - seine 10/6/2020

Condition Index	2.21
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-29
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested areas							
Right Bank	% Riparian Area	74%	26%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	35%	65%				100%
	Score	2	4.5				
						Rt Bk CI >	2.65
						Lt Bk CI >	3.63
							3.14



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-29

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	11	3	33	
	Mussel	Order Heterodonta	26	6	156	
	Damselfly	Suborder Zygoptera	2	7	14	
	Scud	Order Amphipoda	3	6	18	
	Lunged snail	Order Limnophila	1	7	7	
	Aquatic worm	Class Oligochaeta	1	8	8	
	Freshwater shrimp	Family Palaemonidae	99	4	396	
		Total	143		632	
				HBI	4.42	4.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-29

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	6				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	38				
	Bluegill	<i>Lepomis macrochirus</i>	8				
	Creek Chubsucker	<i>Erimyzon oblongus</i>	2				
	Green Sunfish	<i>Lepomis cyanellus</i>	2				
	Largemouth Bass	<i>Micropterus salmoides</i>	1				
	Longear Sunfish	<i>Lepomis megalotis</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	4				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	2				
	Rio Grande Cichlid	<i>Cichlasoma</i>	2				
	Sailfin Molly	<i>Poecilia latipinna</i>	4				
		Total	70				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			5
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	5
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			44
							<b>FV</b>

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

4.00

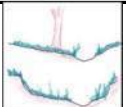
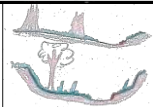
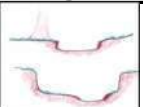
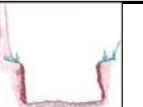
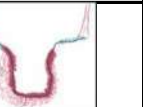
Notes: Collection method - seine 10/6/2020

Condition Index 2.63

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-30
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested areas							
Right Bank	% Riparian Area	93%	7%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	79%	21%				100%
	Score	2	4.5				
						Rt Bk CI >	2.18
						Lt Bk CI >	2.53
							2.35

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-30

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	11	3	33	
	Gilled snail	Order Mesogastropoda	25	3	75	
	Mussel	Order Heterodonta	11	6	66	
	Damselfly	Suborder Zygoptera	8	7	56	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	9	6	54	
	Lunged snail	Order Limnophila	9	7	63	
	Freshwater shrimp	Family Palaemonidae	25	4	100	
		Total	100		457	
	HBI				4.57	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine 10/6/2020

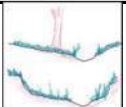
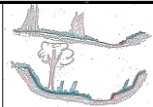
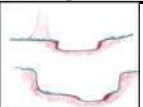
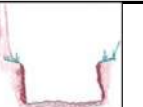
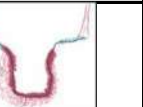
Notes: Collection method - seine 10/6/2020

Page 894 of 1480

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-31
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested area							
Right Bank	% Riparian Area	86%	14%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	100%					100%
	Score	2					
						Rt Bk CI >	2.35
						Lt Bk CI >	2.00
							2.18



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-31

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	15	3	45	
	Gilled snail	Order Mesogastropoda	103	3	309	
	Crayfish	Family Cambaridae	2	5	10	
	Damselfly	Suborder Zygoptera	2	7	14	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Lunged snail	Order Limnophila	7	7	49	
	Freshwater shrimp	Family Palaemonidae	5	4	20	
		Total	135		452	
				HBI	3.35	5.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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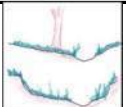
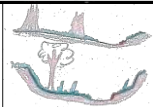
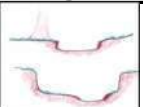
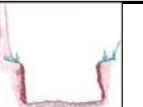
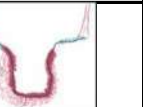
Notes: Collection method - seine 10/6/2020

Condition Index	2.44
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-32
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, forested area								
Right Bank	% Riparian Area	79%	21%				100%	
	Score	2	4.5					
Left Bank	% Riparian Area	18%	82%				100%	Rt Bk CI > 2.53
	Score	2	4.5					Lt Bk CI > 4.05
								3.29

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-32

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	11	3	33	
	Gilled snail	Order Mesogastropoda	57	3	171	
	Damselfly	Suborder Zygoptera	4	7	28	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	12	6	72	
	Lunged snail	Order Limnophila	6	7	42	
	Freshwater shrimp	Family Palaemonidae	13	4	52	
		Total	105		408	
	<i>Melanoides tuberculata</i>	Family Thiaridae	21	none		
HBI					3.89	4.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-32

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	10				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	1				
	Bluegill	<i>Lepomis macrochirus</i>	9				
	Golden Topminnow	<i>Fundulus chrysotus</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	70				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	2				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	2				
	Sailfin Molly	<i>Poecilia latipinna</i>	11				
	Yellow Bullhead	<i>Ameiurus natalis</i>	1				
		Total	108				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	3
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			36
							<b>FV</b>

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), **36-41 Intermediate (3)**, <36 Limited (2), 0 Severe (1)

**3.00**

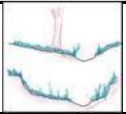
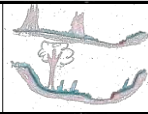
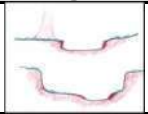
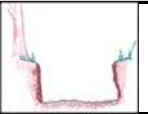
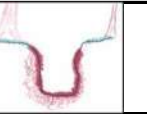
Notes: Collection method - seine 10/6/2020

Condition Index | 2.46

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-33
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-E		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, houses, backyards, gravel path, articulated blocks, geo fabric

Right Bank	% Riparian Area	9%	91%				100%	
	Score	1	2					
Left Bank	% Riparian Area	14%	86%				100%	Rt Bk CI > 1.91
	Score	1	2					Lt Bk CI > 1.86



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-33

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial articulated block, 3 culverts, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Gilled snail	Order Mesogastropoda	8	3	24	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	2	6	12	
	Lunged snail	Order Limnophila	15	7	105	
		Total	27		151	
	<i>Melanoidea tuberculata</i>	Family Thiaridae	16	none		
HBI					5.59	2.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-33

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Bluegill	<i>Lepomis macrochirus</i>	19				
	Green Sunfish	<i>Lepomis cyanellus</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	27				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	3				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	3				
	Sailfin Molly	<i>Poecilia latipinna</i>	1				

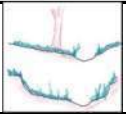
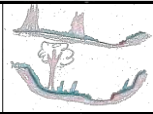
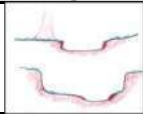
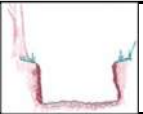
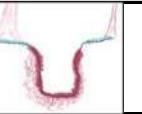
Notes: Collection method - seine 10/5/2020

Condition Index	1.58
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-34
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-E		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, houses, gravel paths, houses, sidewalks, backyards

Right Bank	% Riparian Area	8%	92%				100%	
	Score	1	2					
Left Bank	% Riparian Area	14%	86%				100%	Rt Bk CI > 1.92
	Score	1	2					Lt Bk CI > 1.86

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-34

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	4	3	12	
	Gilled snail	Order Mesogastropoda	24	3	72	
	Mussel	Order Heterodonta	3	6	18	
	Damselfly	Suborder Zygoptera	4	7	28	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Scud	Order Amphipoda	2	6	12	
	Lunged snail	Order Limnophila	8	7		
		Total	48		157	
	<i>Melanoides tuberculata</i>	Family Thiaridae	16	none		
HBI					3.27	5.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

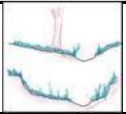
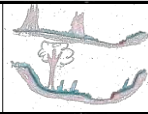
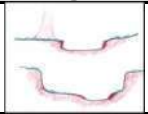
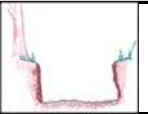
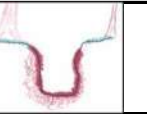
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine 10/5/2020

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-35
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-E		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	<p>Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.</p>	<p>Native plant species &gt;60% coverage with no wetlands &amp; no maintenance or grazing OR native community species 30-59% with wetlands &amp; no maintenance or grazing within the buffer.</p>	<p>Native plant species 30-59% coverage with no wetlands &amp; no maintenance or grazing activities present within the buffer.</p>	<p>Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>		<p>The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.</p>
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, gravel paths, road, sidewalk, houses, concrete lining, backyards							
Right Bank	% Riparian Area	13%	87%				100%
	Score	1	2				
Left Bank	% Riparian Area	23%	77%				100%
	Score	1	2				
						Rt Bk CI >	1.87
						Lt Bk CI >	1.77
							1.82



# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-35

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable effects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Gilled snail	Order Mesogastropoda	57	3	171	
	Mussel	Order Heterodonta	4	6	24	
	Damselfly	Suborder Zygoptera	3	7	21	
	Lunged snail	Order Limnophila	4	7	28	
		Total	68		244	
	<i>Melanoidea tuberculata</i>	Family Thiaridae	4	none		
	HBI				3.59	5.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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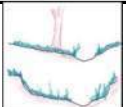
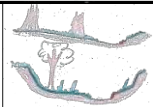
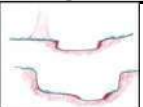
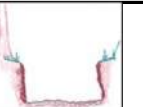

Notes: Collection method - seine 10/5/2020

Page 909 of 1480

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-36
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-E		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, railroad bridge, concrete lining, concrete intake structures, house, forested areas							
Right Bank	% Riparian Area	8%	77%	15%			100%
	Score	1	2	4.5			
Left Bank	% Riparian Area	12%	70%	18%			100%
	Score	1	2	4.5			
						Rt Bk CI >	2.30
						Lt Bk CI >	2.33
							2.31

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-36

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable effects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 4 culverts, railroad bridge pile, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	11	3	33	
	Gilled snail	Order Mesogastropoda	43	3	129	
	Damselfly	Suborder Zygoptera	22	7	154	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Whirligig Beetle	Family Gyrinidae	1	6	6	
	Scud	Order Amphipoda	5	6	30	
	Lunged snail	Order Limnophila	13	7	91	
		Total	96		448	
	<i>Melanoides tuberculata</i>	Family Thiaridae	4	none		
HBI					4.67	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-36

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	2				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	19				
	Bluegill	<i>Lepomis macrochirus</i>	2				
	Brook Silversides	<i>Labidesthes sicculus</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	41				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	7				
	Sailfin Molly	<i>Poecilia latipinna</i>	2				
		Total	75				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						3.00

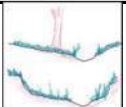
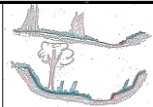
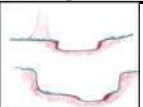
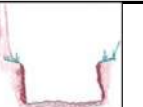
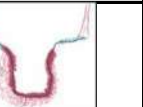
Notes: Collection method - seine 10/5/2020

Condition Index	2.06
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-37
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-E		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, concrete lining, forested area							
Right Bank	% Riparian Area	7%	72%	21%			100%
	Score	1	2	4.5			
Left Bank	% Riparian Area	3%	70%	27%			100%
	Score	1	2	4.5			
						Rt Bk Cl >	2.46
						Lt Bk Cl >	2.65
							2.55



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-37

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, culvert, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	6	3	18	
	Water penny beetle	Family Psephenidae	42	4	168	
	Gilled snail	Order Mesogastropoda	4	3	12	
	Damselfly	Suborder Zygoptera	9	7	63	
	Scud	Order Amphipoda	13	6	78	
	Lunged snail	Order Limnophila	12	7	84	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	2	4	8	
		Total	89		439	
	<i>Melanoides tuberculata</i>	Family Thiaridae	30	none		
HBI					4.93	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

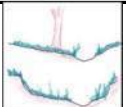
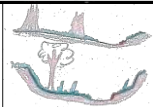
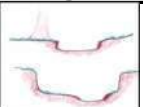
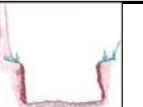
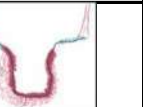
Notes: Collection method - seine 10/5/2020

Page 915 of 1480

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-38
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-E		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, lift station								
Right Bank	% Riparian Area	2%	98%				100%	
	Score	1	2					
Left Bank	% Riparian Area	67%	33%				100%	Rt Bk Cl > 1.98
	Score	2	4.5					Lt Bk Cl > 2.83
								2.40

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-38

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Riffle beetle	Family Elmidae	4	3	12	
	Gilled snail	Order Mesogastropoda	27	3	81	
	Mussel	Order Heterodonta	8	6	48	
	Damselfly	Suborder Zygoptera	6	7	42	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	5	6	30	
	Lunged snail	Order Limnophila	5	7	35	
	Freshwater shrimp	Family Palaemonidae	5	4	20	
		Total	61		273	
	<i>Melanoides tuberculata</i>	Family Thiaridae	25	none		
HBI					4.48	4.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-38

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	3				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	17				
	Bluegill	<i>Lepomis macrochirus</i>	12				
	Brook Silversides	<i>Labidesthes sicculus</i>	2				
	Green Sunfish	<i>Lepomis cyanellus</i>	3				
	Mosquitofish	<i>Gambusia affinis</i>	14				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	6				
		Total	57				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	3
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			40
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

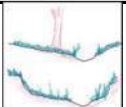
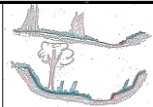
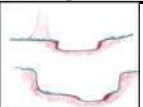
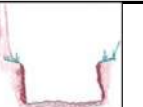
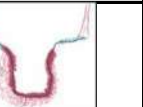
Notes: Collection method - seine 10/5/2020

Condition Index	2.28
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-39
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, concrete lining, forested area, confluence of channels III-C & III-D								
Right Bank	% Riparian Area	12%	61%	27%			100%	
	Score	1	2	4.5				
Left Bank	% Riparian Area	15%	85%				100%	Rt Bk Cl > 2.56
	Score	1	2					Lt Bk Cl > 1.85
							2.20	



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-39

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining at confluence with III-C, culvert, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	5	3	15	
	Gilled snail	Order Mesogastropoda	45	3	135	
	Mussel	Order Heterodonta	30	6	180	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	2	6	12	
	Lunged snail	Order Limnophila	8	7	56	
	Leech	Order Hirudinea	1	8	8	
		Total	92		411	
	<i>Melanoides tuberculata</i>	Family Thiaridae	8	none		
HBI					4.47	4.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-39

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	7				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	60				
	Bluegill	<i>Lepomis macrochirus</i>	18				
	Brook Silversides	<i>Labidesthes sicculus</i>	7				
	Green Sunfish	<i>Lepomis cyanellus</i>	7				
	Longear Sunfish	<i>Lepomis megalotis</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	11				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	2				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	33				
	Sailfin Molly	<i>Poecilia latipinna</i>	3				
	Yellow Bullhead	<i>Ameiurus natalis</i>	1				
		Total	150				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			5
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	5
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			46
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

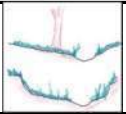
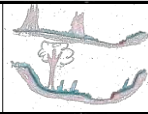
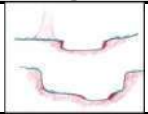

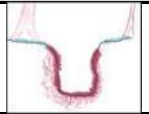
Notes: Collection method - seine 10/5/2020

Condition Index	2.44
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-40
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested area							
Right Bank	% Riparian Area	51%	49%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	75%	25%				100%
	Score	2	4.5				
						Rt Bk CI >	3.23
						Lt Bk CI >	2.63
							2.93

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-40

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Riffle beetle	Family Elmidae	3	3	9	
	Mayfly	Order Ephemeroptera	19	3	57	
	Gilled snail	Order Mesogastropoda	31	3	93	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	8	7	56	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	4	6	24	
	Lunged snail	Order Limnophila	6	7	42	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	52	4	208	
		Total	127		512	
	<i>Melanoides tuberculata</i>	Family Thiaridae	4	none		
HBI					4.03	4.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-40

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	4				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	54				
	Bluegill	<i>Lepomis macrochirus</i>	11				
	Green Sunfish	<i>Lepomis cyanellus</i>	7				
	Largemouth Bass	<i>Micropterus salmoides</i>	1				
	Longear Sunfish	<i>Lepomis megalotis</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	24				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Redbreast Sunfish	<i>Lepomis auritus</i>	1				
		Total	105				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	5
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	3
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			46
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

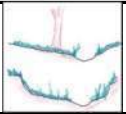
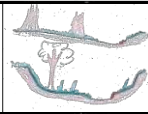
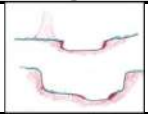
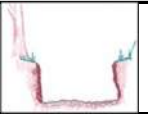
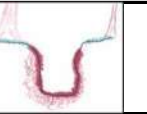
Notes: Collection method - seine 10/5/2020

Condition Index	2.59
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-41
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, trees, house, pond							
Right Bank	% Riparian Area	2%	68%	30%			100%
	Score	1	2	4.5			
Left Bank	% Riparian Area	89%	11%				100%
	Score	2	4.5				
						Rt Bk CI >	2.73
						Lt Bk CI >	2.28
							2.50



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-41

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	14	3	42	
	Gilled snail	Order Mesogastropoda	12	3	36	
	Mussel	Order Heterodonta	4	6	24	
	Damselfly	Suborder Zygoptera	3	7	21	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Scud	Order Amphipoda	10	6	60	
	Lunged snail	Order Limnophila	19	7	133	
	Freshwater shrimp	Family Palaemonidae	64	4	256	
		Total	129		587	
	<i>Melanoides tuberculata</i>	Family Thiaridae	1	none		
HBI					4.55	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-41

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	12				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	20				
	Bluegill	<i>Lepomis macrochirus</i>	11				
	Brook Silversides	<i>Labidesthes sicculus</i>	1				
	Green Sunfish	<i>Lepomis cyanellus</i>	24				
	Mosquitofish	<i>Gambusia affinis</i>	26				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	1				
	Sailfin Molly	<i>Poecilia latipinna</i>	1				
		Total	96				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	5
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			42
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

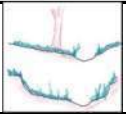
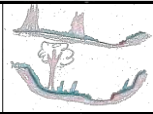
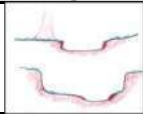
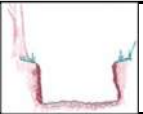
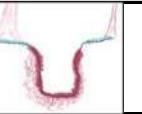
Notes: Collection method - seine 10/5/2020

Condition Index	2.30
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-42
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, terminus of South Ditch, backyards							
Right Bank	% Riparian Area	1%	99%				100%
	Score	1	2				
Left Bank	% Riparian Area	100%					100%
	Score	2					
						Rt Bk CI >	1.99
						Lt Bk CI >	2.00
							2.00

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-42

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	11	3	33	
	Gilled snail	Order Mesogastropoda	43	3	129	
	Damselfly	Suborder Zygoptera	1	7	7	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Lunged snail	Order Limnophila	8	7	56	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	56	4	224	
		Total	121		462	
				HBI	3.82	4.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-42

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	7				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	32				
	Bluegill	<i>Lepomis macrochirus</i>	11				
	Golden Topminnow	<i>Fundulus chrysotus</i>	3				
	Mosquitofish	<i>Gambusia affinis</i>	15				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	1				
		Total	70				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			40
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

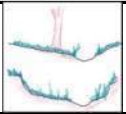
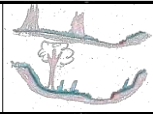
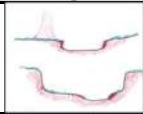
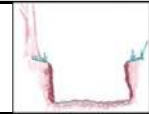
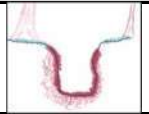
Notes: Collection method - seine 10/5/2020

Condition Index	2.20
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-43
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, houses, bridge of Caraquet Drive, backyards							
Right Bank	% Riparian Area	17%	83%				100%
	Score	1	2				
Left Bank	% Riparian Area	16%	84%				100%
	Score	1	2				
						Rt Bk CI >	1.83
						Lt Bk CI >	1.84



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-43

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, concrete lining under bridge, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	10	3	30	
	Gilled snail	Order Mesogastropoda	12	3	36	
	Mussel	Order Heterodonta	4	6	24	
	Damselfly	Suborder Zygoptera	2	7	14	
	Dragonfly	Suborder Anisoptera	7	5	35	
	Scud	Order Amphipoda	6	6	36	
	Lunged snail	Order Limnophila	3	7	21	
	Freshwater shrimp	Family Palaemonidae	31	4	124	
		Total	75		320	
	<i>Melanoides tuberculata</i>	Family Thiaridae	13	none		
HBI					4.27	4.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-43

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	8				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	105				
	Bluegill	<i>Lepomis macrochirus</i>	7				
	Golden Topminnow	<i>Fundulus chrysotus</i>	3				
	Mosquitofish	<i>Gambusia affinis</i>	53				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	7				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	3				
		Total	186				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			44
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

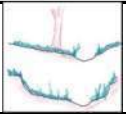
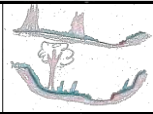
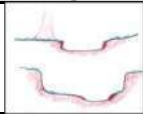
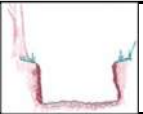
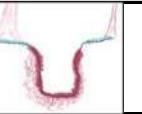
Notes: Collection method - seine 10/5/2020

Condition Index	2.37
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-44
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	<p>Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.</p>	<p>Native plant species &gt;60% coverage with no wetlands &amp; no maintenance or grazing OR native community species 30-59% with wetlands &amp; no maintenance or grazing within the buffer.</p>	<p>Native plant species 30-59% coverage with no wetlands &amp; no maintenance or grazing activities present within the buffer.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>		<p>The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.</p>
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, concrete lining, houses, backyards, pools							
Right Bank	% Riparian Area	7%	93%			100%	
	Score	1	2				
Left Bank	% Riparian Area	6%	94%			100%	Rt Bk CI > 1.93
	Score	1	2				Lt Bk CI > 1.94

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-44

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, culvert, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	12	3	36	
	Gilled snail	Order Mesogastropoda	21	3	63	
	Mussel	Order Heterodonta	2	6	12	
	Damselfly	Suborder Zygoptera	5	7	35	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Scud	Order Amphipoda	3	6	18	
	Lunged snail	Order Limnophila	2	7	14	
	Freshwater shrimp	Family Palaemonidae	2	4	8	
		Total	50		201	
	<i>Melanoides tuberculata</i>	Family Thiaridae	4	none		
HBI					4.02	4.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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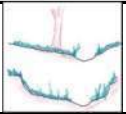
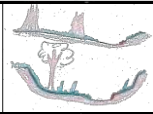
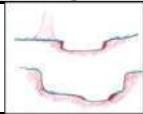
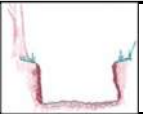
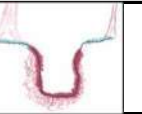
Notes: Collection method - seine 10/5/2020

Page 936 of 1480

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-45
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, pools, houses, maintained pipeline easement, concrete lining

Right Bank	% Riparian Area	26%	74%				100%	
	Score	1	2					
Left Bank	% Riparian Area	21%	79%				100%	Rt Bk Cl > 1.74
	Score	1	2					Lt Bk Cl > 1.79



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-45

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, concrete lining, articulated block, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	2	3	6	
	Gilled snail	Order Mesogastropoda	22	3	66	
	Mussel	Order Heterodonta	25	6	150	
	Damselfly	Suborder Zygoptera	3	7	21	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	24	6	144	
	Lunged snail	Order Limnophila	10	7	70	
		Total	87		462	
	<i>Melanoides tuberculata</i>	Family Thiaridae	4	none		
HBI					5.31	2.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

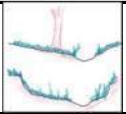
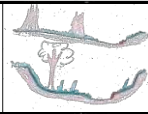
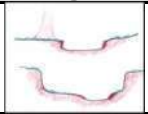
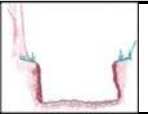
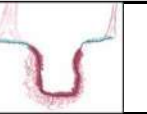
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine 10/5/2020

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-46
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, houses, backyards, pool							
Right Bank	% Riparian Area	6%	94%				100%
	Score	1	2				
Left Bank	% Riparian Area	5%	95%				100%
	Score	1	2				
						Rt Bk CI >	1.94
						Lt Bk CI >	1.95
							1.95

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-46

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	8	3	24	
	Gilled snail	Order Mesogastropoda	11	3	33	
	Mussel	Order Heterodonta	1	6	6	
	Damselfly	Suborder Zygoptera	9	7	63	
	Scud	Order Amphipoda	10	6	60	
	Freshwater shrimp	Family Palaemonidae	12	4	48	
		Total	51		234	
	HBI				4.59	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/1/2020

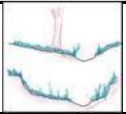
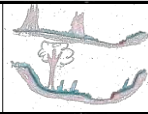
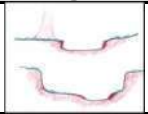
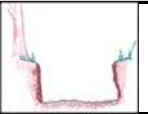
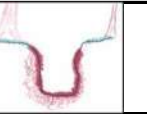
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine 10/5/2020

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-47
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, houses, bridge, backyards							
Right Bank	% Riparian Area	4%	96%			100%	
	Score	1	2				
Left Bank	% Riparian Area	4%	96%			100%	Rt Bk CI > 1.96
	Score	1	2				Lt Bk CI > 1.96



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-47

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 3 culverts, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	4	3	12	
	Gilled snail	Order Mesogastropoda	8	3	24	
	Mussel	Order Heterodonta	2	6	12	
	Damselfly	Suborder Zygoptera	7	7	49	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Lunged snail	Order Limnophila	10	7	70	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	12	4	48	
		Total	47		238	
HBI					5.06	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/1/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-47

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	15				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	97				
	Bluegill	<i>Lepomis macrochirus</i>	4				
	Brook Silversides	<i>Labidesthes sicculus</i>	2				
	Golden Topminnow	<i>Fundulus chrysotus</i>	2				
	Green Sunfish	<i>Lepomis cyanellus</i>	8				
	Longear Sunfish	<i>Lepomis megalotis</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	11				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	1				
		Total	141				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	3
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			44
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

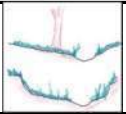
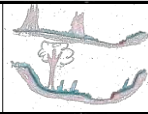
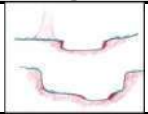

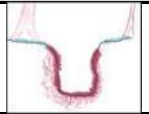
Notes: Collection method - seine 10/5/2020

Condition Index	2.19
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-48
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, swimming pools, houses, backyards								
Right Bank	% Riparian Area	5%	95%				100%	
	Score	1	2					
Left Bank	% Riparian Area	3%	97%				100%	Rt Bk CI > 1.95
	Score	1	2					Lt Bk CI > 1.97
								1.96

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-48

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts with riprap, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	8	3	24	
	Gilled snail	Order Mesogastropoda	14	3	42	
	Mussel	Order Heterodonta	4	6	24	
	Damselfly	Suborder Zygoptera	2	7	14	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	1	6	6	
	Lunged snail	Order Limnophila	14	7	98	
	Freshwater shrimp	Family Palaemonidae	27	4	108	
		Total	71		321	
HBI					4.52	4.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 10/1/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-48

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	7				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	94				
	Bluegill	<i>Lepomis macrochirus</i>	15				
	Brook Silversides	<i>Labidesthes sicculus</i>	5				
	Longear Sunfish	<i>Lepomis megalotis</i>	4				
	Mosquitofish	<i>Gambusia affinis</i>	30				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	3				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	1				
	Sailfin Molly	<i>Poecilia latipinna</i>	2				
		Total	161				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			42
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

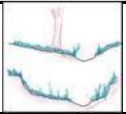
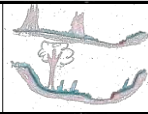
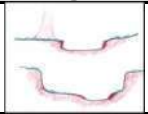
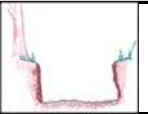
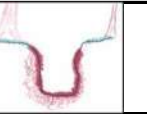
Notes: Collection method - seine 10/5/2020

Condition Index	2.39
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-49
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	<p>Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.</p>	<p>Native plant species &gt;60% coverage with no wetlands &amp; no maintenance or grazing OR native community species 30-59% with wetlands &amp; no maintenance or grazing within the buffer.</p>	<p>Native plant species 30-59% coverage with no wetlands &amp; no maintenance or grazing activities present within the buffer.</p>	<p>Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>		<p>The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.</p>	<p>The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.</p>
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, backyards, bridge of Imperial Oaks, riprap, forested area, power line easement								
Right Bank	% Riparian Area	22%	78%				100%	
	Score	1	2					
Left Bank	% Riparian Area	20%	73%	7%			100%	Rt Bk CI > 1.78
	Score	1	2	4.5				Lt Bk CI > 1.98
							1.88	



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-49

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 3 culverts, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	11	3	33	
	Gilled snail	Order Mesogastropoda	3	3	9	
	Mussel	Order Heterodonta	10	6	60	
	Damselfly	Suborder Zygoptera	3	7	21	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Lunged snail	Order Limnophila	5	7	35	
	Freshwater shrimp	Family Palaemonidae	66	4	264	
		Total	100		432	
	<i>Melanoides tuberculata</i>	Family Thiaridae	2	none		
HBI					4.32	4.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/30/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-49

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy	<i>Elassoma zonatum</i>	11				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	58				
	Bluegill	<i>Lepomis macrochirus</i>	22				
	Brook Silversides	<i>Labidesthes sicculus</i>	1				
	Golden Topminnow	<i>Fundulus chrysotus</i>	1				
	Green Sunfish	<i>Lepomis cyanellus</i>	8				
	Mosquitofish	<i>Gambusia affinis</i>	23				
	Orangespotted	<i>Lepomis humilis</i>	4				
	Rio Grande Cichlid	<i>Cichlasoma</i>	1				
	Sailfin Molly	<i>Poecilia latipinna</i>	2				
		Total	131				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	3
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			42
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

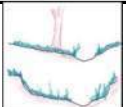
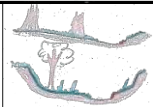
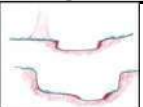
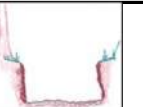

Notes: Collection method - seine 10/5/2020

Condition Index	2.38
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-50
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, riprap, sidewalks, backyards							
Right Bank	% Riparian Area	2%	98%				100%
	Score	1	2				
Left Bank	% Riparian Area	18%	82%				100%
	Score	1	2				
						Rt Bk CI >	1.98
						Lt Bk CI >	1.82
							1.90

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-50

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap, 2 culverts, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	8	3	24	
	Gilled snail	Order Mesogastropoda	2	3	6	
	Mussel	Order Heterodonta	5	6	30	
	Damselfly	Suborder Zygoptera	3	7	21	
	Scud	Order Amphipoda	8	6	48	
	Lunged snail	Order Limnophila	3	7	21	
	Freshwater shrimp	Family Palaemonidae	13	4	52	
		Total	42		202	
	<i>Melanoides tuberculata</i>	Family Thiaridae	1	none		
HBI					4.81	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/30/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-50

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	3				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	3				
	Bluegill	<i>Lepomis macrochirus</i>	10				
	Mosquitofish	<i>Gambusia affinis</i>	23				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Redbreast Sunfish	<i>Lepomis auritus</i>	2				
	Sailfin Molly	<i>Poecilia latipinna</i>	3				
		Total	45				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	1
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			32
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

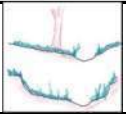
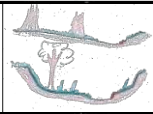
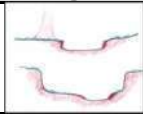
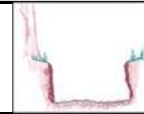
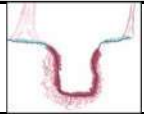
Notes: Collection method - seine 10/3/2020

Condition Index	1.78
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-51
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, houses, pool, backyards							
Right Bank	% Riparian Area	6%	94%			100%	
	Score	1	2				
Left Bank	% Riparian Area	100%				100%	Rt Bk CI > 1.94
	Score	2					Lt Bk CI > 2.00
							1.97



# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-51

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 1 culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	14	3	42	
	Gilled snail	Order Mesogastropoda	5	3	15	
	Mussel	Order Heterodonta	2	6	12	
	Damselfly	Suborder Zygoptera	15	7	105	
	Scud	Order Amphipoda	10	6	60	
		Total	46		234	
	HBI				5.09	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-51

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	4				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	7				
	Bluegill	<i>Lepomis macrochirus</i>	7				
	Green Sunfish	<i>Lepomis cyanellus</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	24				
	Redbreast Sunfish	<i>Lepomis auritus</i>	3				
	Sailfin Molly	<i>Poecilia latipinna</i>	1				
		Total	48				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	1
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			34
							<b>FV</b>

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), **<36 Limited (2)**, 0 Severe (1)

2.00

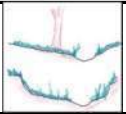
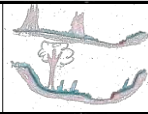
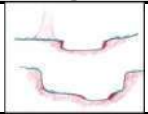

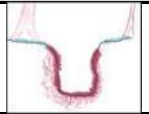
Notes: Collection method - seine 10/3/2020

Condition Index | 1.79

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-52
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, houses, backyards								
Right Bank	% Riparian Area	4%	96%				100%	
	Score	1	2					
Left Bank	% Riparian Area	100%					100%	Rt Bk CI > 1.96
	Score	2						Lt Bk CI > 2.00
								1.98

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-52

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	41	3	123	
	Gilled snail	Order Mesogastropoda	21	3	63	
	Mussel	Order Heterodonta	1	6	6	
	Damselfly	Suborder Zygoptera	18	7	126	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	35	6	210	
	Lunged snail	Order Limnophila	4	7	28	
	Freshwater shrimp	Family Palaemonidae	4	4	16	
		Total	125		577	
HBI					4.62	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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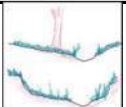
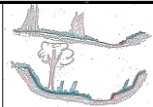
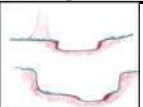
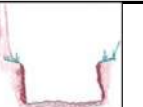
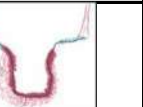
Notes: Collection method - seine 10/3/2020

Page 960 of 1480

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-53
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, houses, backyards							
Right Bank	% Riparian Area	3%	97%				100%
	Score	1	2				
Left Bank	% Riparian Area	100%					100%
	Score	2					
						Rt Bk CI >	1.97
						Lt Bk CI >	2.00
							1.99



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-53

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, articulated block, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	43	3	129	
	Gilled snail	Order Mesogastropoda	51	3	153	
	Mussel	Order Heterodonta	3	6	18	
	Damselfly	Suborder Zygoptera	25	7	175	
	Scud	Order Amphipoda	44	6	264	
	Lunged snail	Order Limnophila	3	7	21	
	Leech	Order Hirudinea	3	8	24	
	Freshwater shrimp	Family Palaemonidae	5	4	20	
		Total	177		804	
HBI					4.54	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-53

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	6				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	8				
	Bluegill	<i>Lepomis macrochirus</i>	3				
	Brook Silversides	<i>Labidesthes sicculus</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	1				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	1				
		Total	22				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			40
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

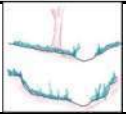
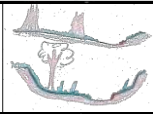
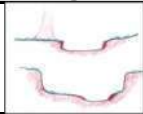
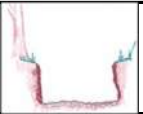
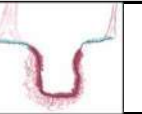
Notes: Collection method - seine 10/3/2020

Condition Index	2.00
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-54
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, backyards swimming pools, trees							
Right Bank	% Riparian Area	4%	96%				100%
	Score	1	2				
Left Bank	% Riparian Area	81%	19%				100%
	Score	2	4.5				
						Rt Bk CI >	1.96
						Lt Bk CI >	2.48
							2.22

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-54

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 4 culverts, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	12	3	36	
	Gilled snail	Order Mesogastropoda	8	3	24	
	Mussel	Order Heterodonta	4	6	24	
	Damselfly	Suborder Zygoptera	16	7	112	
	Whirligig Beetle	Family Gyrinidae	2	6	12	
	Scud	Order Amphipoda	12	6	72	
	Lunged snail	Order Limnophila	22	7	154	
	Freshwater shrimp	Family Palaemonidae	10	4	40	
		Total	86		474	
HBI					5.51	2.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-54

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	14				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	4				
	Bluegill	<i>Lepomis macrochirus</i>	13				
	Largemouth Bass	<i>Micropterus salmoides</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	4				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	4				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	1				
	Sailfin Molly	<i>Poecilia latipinna</i>	1				
		Total	42				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							<b>FV</b>

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), **36-41 Intermediate (3)**, <36 Limited (2), 0 Severe (1)

**3.00**

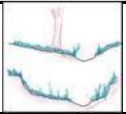
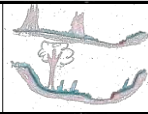
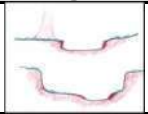
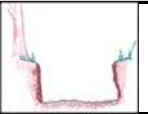
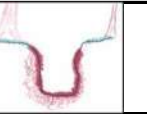
Notes: Collection method - seine 10/3/2020

Condition Index | 1.84

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-55
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, house, backyards, concrete drainage structures								
Right Bank	% Riparian Area	4%	96%				100%	
	Score	1	2					
Left Bank	% Riparian Area	85%	15%				100%	Rt Bk CI > 1.96
	Score	2	4.5					Lt Bk CI > 2.38
							2.17	



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-55

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable effects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap, culvert, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	14	3	42	
	Stonefly	Order Plecoptera	1	1	1	
	Gilled snail	Order Mesogastropoda	25	3	75	
	Mussel	Order Heterodonta	4	6	24	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	23	7	161	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	23	6	138	
	Lunged snail	Order Limnophila	24	7	168	
	Freshwater shrimp	Family Palaemonidae	18	4	72	
		Total	134		691	
HBI					5.16	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-55

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	6				
	Bluegill	<i>Lepomis macrochirus</i>	42				
	Largemouth Bass	<i>Micropterus salmoides</i>	1				
	Longear Sunfish	<i>Lepomis megalotis</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	7				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	4				
	Rio Grande Cichlid	<i>Cichlasoma</i>	3				
	Sailfin Molly	<i>Poecilia latipinna</i>	2				
		Total	67				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	5
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							<b>FV</b>

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), **36-41 Intermediate (3)**, <36 Limited (2), 0 Severe (1)

**3.00**

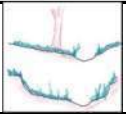
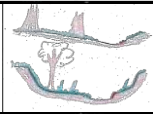
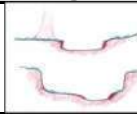
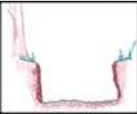
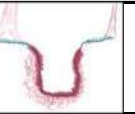
Notes: Collection method - seine 10/3/2020

Condition Index | 2.03

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-56
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, roads, backyards, trees							
Right Bank	% Riparian Area	2%	98%				100%
	Score	1	2				
Left Bank	% Riparian Area	2%	89%	9%			100%
	Score	1	2	4.5			
						Rt Bk CI >	1.98
						Lt Bk CI >	2.21
							2.09

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-56

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 3 culverts, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	5	3	15	
	Gilled snail	Order Mesogastropoda	12	3	36	
	Mussel	Order Heterodonta	10	6	60	
	Damselfly	Suborder Zygoptera	13	7	91	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	2	6	12	
	Freshwater shrimp	Family Palaemonidae	48	4	192	
		Total	91		411	
	<i>Melanoides tuberculata</i>	Family Thiaridae	1	none		
HBI					4.52	4.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-56

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	39				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	7				
	Bluegill	<i>Lepomis macrochirus</i>	2				
	Green Sunfish	<i>Lepomis cyanellus</i>	14				
	Largemouth Bass	<i>Micropterus salmoides</i>	11				
	Mosquitofish	<i>Gambusia affinis</i>	12				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	7				
	Sailfin Molly	<i>Poecilia latipinna</i>	1				
		Total	93				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	5
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			46
							<b>FV</b>

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

4.00

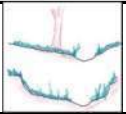
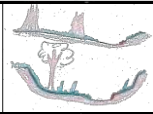
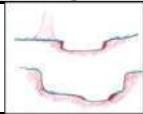
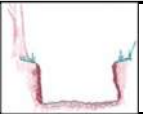
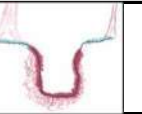
Notes: Collection method - seine 10/3/2020

Condition Index 2.42

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-57
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, backyards, trees							
Right Bank	% Riparian Area	5%	95%				100%
	Score	1	2				
Left Bank	% Riparian Area	80%	20%				100%
	Score	2	4.5				
						Rt Bk CI >	1.95
						Lt Bk CI >	2.50
							2.23



# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-57

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Gilled snail	Order Mesogastropoda	1	3	3	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Lunged snail	Order Limnophila	1	7	7	
	Freshwater shrimp	Family Palaemonidae	10	4	40	
		Total	14		60	
	<i>Melanoides tuberculata</i>	Family Thiaridae	3	none		
HBI					4.29	4.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/28/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-57

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	54				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	9				
	Bluegill	<i>Lepomis macrochirus</i>	33				
	Largemouth Bass	<i>Micropterus salmoides</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	36				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	32				
	Sailfin Molly	<i>Poecilia latipinna</i>	13				
		Total	180				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			42
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

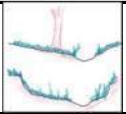
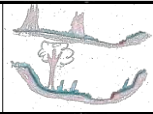
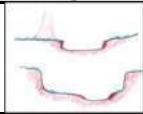
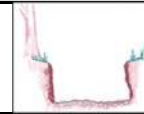
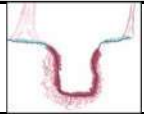
Notes: Collection method - seine 10/3/2020

Condition Index	2.45
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-58
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, waste water treatment plant, concrete lining, trees, backyards								
Right Bank	% Riparian Area	8%	90%	2%			100%	
	Score	1	2	4.5				
Left Bank	% Riparian Area	90%	10%				100%	Rt Bk CI > 1.97
	Score	2	4.5					Lt Bk CI > 2.25
							2.11	

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-58

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable effects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 3 culverts, partial concrete lining, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	12	3	36	
	Gilled snail	Order Mesogastropoda	10	3	30	
	Mussel	Order Heterodonta	25	6	150	
	Damselfly	Suborder Zygoptera	12	7	84	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	3	6	18	
	Lunged snail	Order Limnophila	11	7	77	
	Leech	Order Hirudinea	3	8	24	
	Freshwater shrimp	Family Palaemonidae	2	4	8	
		Total	80		437	
	<i>Melanoides tuberculata</i>	Family Thiaridae	26	none		
HBI					5.46	2.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 9/29/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-58

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	35				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	6				
	Bluegill	<i>Lepomis macrochirus</i>	17				
	Largemouth Bass	<i>Micropterus salmoides</i>	1				
	Longear Sunfish	<i>Lepomis megalotis</i>	4				
	Mosquitofish	<i>Gambusia affinis</i>	36				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	18				
	Sailfin Molly	<i>Poecilia latipinna</i>	8				
		Total	125				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			40
							<b>FV</b>

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), **36-41 Intermediate (3)**, <36 Limited (2), 0 Severe (1)

**3.00**

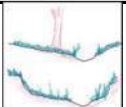
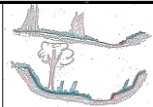
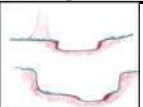
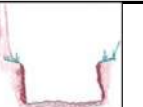
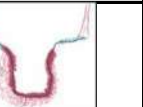
Notes: Collection method - seine 10/3/2020

Condition Index | 1.82

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-59
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species 30% represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, maintained yards, trees							
Right Bank	% Riparian Area	1%	98%	1%			100%
	Score	1	2	4.5			
Left Bank	% Riparian Area	1%	77%	22%			100%
	Score	1	2	4.5			
						Rt Bk CI >	2.02
						Lt Bk CI >	2.54
							2.28



3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Notes: 100% Channelization, 2 culverts, no floodplain access

4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

Notes: 9/29/2020

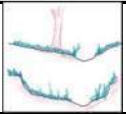
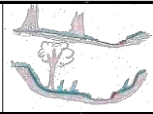
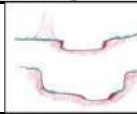
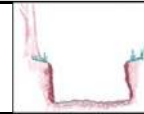
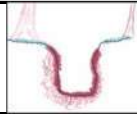
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine 10/3/2020

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-60
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, backyard, concrete lining, trees, dirt road								
Right Bank	% Riparian Area	100%					100%	
	Score	2						
Left Bank	% Riparian Area	3%	95%	2%			100%	Rt Bk CI > 2.00
	Score	1	2	4.5				Lt Bk CI > 2.02
								2.01

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-60

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable effects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, articulated block, 2 culverts, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	7	3	21	
	Damselfly	Suborder Zygoptera	13	7	91	
	Whirligig Beetle	Family Gyrinidae	1	6	6	
	Scud	Order Amphipoda	6	6	36	
	Aquatic worm	Class Oligochaeta	1	8	8	
		Total	28		162	
				HBI	5.79	2.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 9/28/2020

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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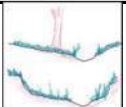
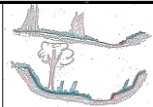
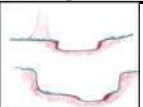
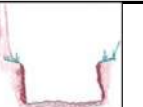
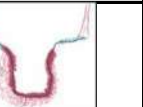
Notes: Collection method - seine 9/29/2020

Page 984 of 1480

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-61
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D & III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, bridge, lift station, riprap								
Right Bank	% Riparian Area	33%	59%	8%			100%	
	Score	1	2	4.5				
Left Bank	% Riparian Area	72%	28%				100%	Rt Bk CI > 1.87
	Score	1	2					Lt Bk CI > 1.28
								1.58



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-61

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap, 6 culverts, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	30	3	90	
	Gilled snail	Order Mesogastropoda	3	3	9	
	Mussel	Order Heterodonta	8	6	48	
	Damselfly	Suborder Zygoptera	37	7	259	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Whirligig Beetle	Family Gyridae	2	6	12	
	Scud	Order Amphipoda	13	6	78	
	Lunged snail	Order Limnophila	2	7	14	
	Freshwater shrimp	Family Palaemonidae	1	4	4	
		Total	97		519	
HBI					5.35	2.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/28/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-61

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	7				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	1				
	Blacktail Shiner	<i>Cyprinella venusta</i>	2				
	Bluegill	<i>Lepomis macrochirus</i>	10				
	Largemouth Bass	<i>Micropterus salmoides</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	5				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	24				
	Sailfin Molly	<i>Poecilia latipinna</i>	3				
		Total	54				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						3.00

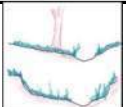
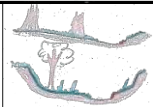
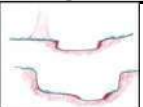
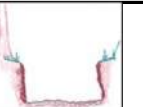

Notes: Collection method - seine 9/29/2020

Condition Index	1.72
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-62
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, trees, backyards							
Right Bank	% Riparian Area	72%	28%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	100%					100%
	Score	2					
						Rt Bk CI >	2.70
						Lt Bk CI >	2.00
							2.35

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-62

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	34	3	102	
	Mussel	Order Heterodonta	11	6	66	
	Damselfly	Suborder Zygoptera	7	7	49	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	17	6	102	
	Freshwater shrimp	Family Palaemonidae	2	4	8	
		Total	73		337	
HBI					4.62	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/28/2020

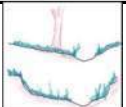
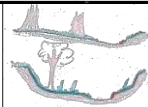
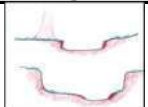
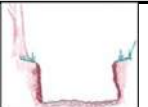
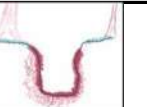
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine 9/29/2020

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-63
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested area							
Right Bank	% Riparian Area	87%	13%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	100%					100%
	Score	2					
						Rt Bk CI >	2.33
						Lt Bk CI >	2.00
							2.16



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-63

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	32	3	96	
	Damselfly	Suborder Zygoptera	18	7	126	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	14	6	84	
	Lunged snail	Order Limnophila	1	7	7	
	Freshwater shrimp	Family Palaemonidae	2	4	8	
		Total	68		326	
HBI					4.79	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/28/2020

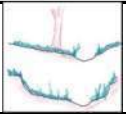
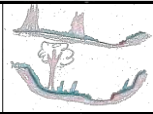
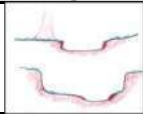
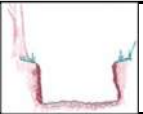
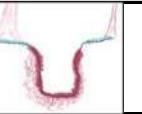
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine 9/29/2020

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-64
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested areas							
Right Bank	% Riparian Area	70%	30%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	100%					100%
	Score	2					
						Rt Bk Cl >	2.75
						Lt Bk Cl >	2.00
							2.38

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-64

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 3 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	7	3	21	
	Gilled snail	Order Mesogastropoda	5	3	15	
	Mussel	Order Heterodonta	6	6	36	
	Damselfly	Suborder Zygoptera	8	7	56	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	5	6	30	
	Aquatic worm	Class Oligochaeta	2	8	16	
	Freshwater shrimp	Family Palaemonidae	1	4	4	
		Total	35		183	
HBI					5.23	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/28/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-64

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	1				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	42				
	Bluegill	<i>Lepomis macrochirus</i>	11				
	Mosquitofish	<i>Gambusia affinis</i>	2				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	5				
	Rio Grande Cichlid	<i>Cichlasoma</i>	3				
	Yellow Bullhead	<i>Ameiurus natalis</i>	1				
		Total	65				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			40
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

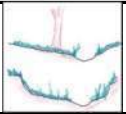
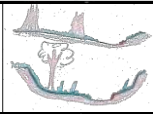
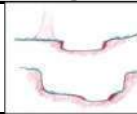
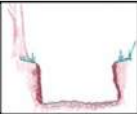
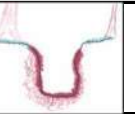
Notes: Collection method - seine 9/29/2020

Condition Index	2.08
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-65
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested areas, riprap							
Right Bank	% Riparian Area	81%	19%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	6%	84%	10%			100%
	Score	1	2	4.5			
						Rt Bk CI >	2.48
						Lt Bk CI >	2.19
							2.33



# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-65

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable effects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	12	3	36	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	17	7	119	
	Dragonfly	Suborder Anisoptera	6	5	30	
	Whirligig Beetle	Family Gyrinidae	1	6	6	
	Scud	Order Amphipoda	8	6	48	
	Lunged snail	Order Limnophila	2	7	14	
	Aquatic worm	Class Oligochaeta	1	8	8	
	Freshwater shrimp	Family Palaemonidae	15	4	60	
		Total	63		326	
	<i>Melanoides tuberculata</i>	Family Thiaridae	2	none		
HBI					5.17	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/28/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-65

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	9				
	Bluegill	<i>Lepomis macrochirus</i>	33				
	Green Sunfish	<i>Lepomis cyanellus</i>	4				
	Mosquitofish	<i>Gambusia affinis</i>	5				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma</i>	11				
	Yellow Bullhead	<i>Ameiurus natalis</i>	1				
		Total	64				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	3
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

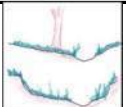
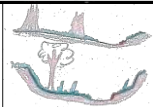
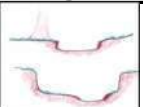
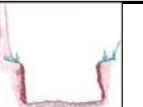
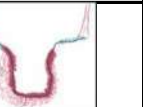
Notes: Collection method - seine 9/29/2020

Condition Index	2.07
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-66
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, park path, forested area							
Right Bank	% Riparian Area	83%	17%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	10%	90%				100%
	Score	1	2				
						Rt Bk CI >	2.43
						Lt Bk CI >	1.90
							2.16

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-66

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap, culvert, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	18	3	54	
	Gilled snail	Order Mesogastropoda	11	3	33	
	Damselfly	Suborder Zygoptera	23	7	161	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	9	6	54	
	Lunged snail	Order Limnophila	20	7	140	
	Freshwater shrimp	Family Palaemonidae	18	4	72	
		Total	100		519	
				HBI	5.19	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-66

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	5				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	36				
	Bluegill	<i>Lepomis macrochirus</i>	39				
	Mosquitofish	<i>Gambusia affinis</i>	10				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	2				
	Rio Grande Cichlid	<i>Cichlasoma</i>	29				
	Sailfin Molly	<i>Poecilia latipinna</i>	1				
		Total	122				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			42
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

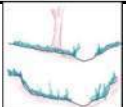
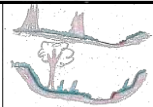
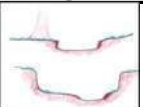

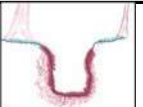
Notes: Collection method - seine 9/29/2020

Condition Index	2.23
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-67
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	<p>Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.</p>	<p>Native plant species &gt;60% coverage with no wetlands &amp; no maintenance or grazing OR native community species 30-59% with wetlands &amp; no maintenance or grazing within the buffer.</p>	<p>Native plant species 30-59% coverage with no wetlands &amp; no maintenance or grazing activities present within the buffer.</p>	<p>Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>		<p>The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.</p>
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, park, backyards							
Right Bank	% Riparian Area	100%				100%	
	Score	2					
Left Bank	% Riparian Area	62%	38%			100%	Rt Bk CI > 2.00
	Score	2	4.5				Lt Bk CI > 2.95
							2.48



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-67

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	20	3	60	
	Gilled snail	Order Mesogastropoda	31	3	93	
	Mussel	Order Heterodonta	1	6	6	
	Damselfly	Suborder Zygoptera	19	7	133	
	Scud	Order Amphipoda	24	6	144	
	Lunged snail	Order Limnophila	12	7	84	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	16	4	64	
		Total	124		592	
HBI					4.77	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020

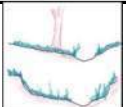
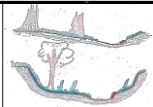
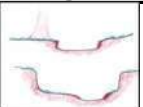

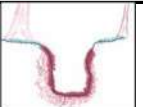
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine 9/29/2020

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-68
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	<p>Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.</p>	<p>Native plant species &gt;60% coverage with no wetlands &amp; no maintenance or grazing OR native community species 30-59% with wetlands &amp; no maintenance or grazing within the buffer.</p>	<p>Native plant species 30-59% coverage with no wetlands &amp; no maintenance or grazing activities present within the buffer.</p>	<p>Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>		<p>The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.</p>
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, maintained park, houses, backyards							
Right Bank	% Riparian Area	5%	95%				100%
	Score	1	2				
Left Bank	% Riparian Area	100%					100%
	Score	2					
						Rt Bk CI >	1.95
						Lt Bk CI >	2.00
							1.98

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-68

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	17	3	51	
	Gilled snail	Order Mesogastropoda	41	3	123	
	Mussel	Order Heterodonta	34	6	204	
	Net-spinning caddisfly	Family Hydropsychidae	4	4	16	
	Crayfish	Family Cambaridae	1	5	5	
	Whirligig Beetle	Family Gyrinidae	1	6	6	
	Scud	Order Amphipoda	22	6	132	
	Lunged snail	Order Limnophila	11	7	77	
	Leech	Order Hirudinea	1	8	8	
		Total	132		622	
	<i>Melanoides tuberculata</i>	Family Thiariidae	1	none		
HBI					4.71	3.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020

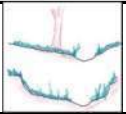
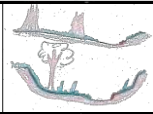
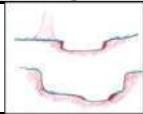
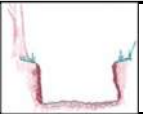
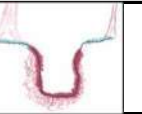
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine 9/29/2020

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-69
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, houses, backyards, pipeline easement							
Right Bank	% Riparian Area	4%	96%				100%
	Score	1	2				
Left Bank	% Riparian Area	100%					100%
	Score	2					
						Rt Bk CI >	1.96
						Lt Bk CI >	2.00
							1.98



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-69

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap, 3 culverts, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	29	3	87	
	Gilled snail	Order Mesogastropoda	23	3	69	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	14	7	98	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	16	6	96	
	Freshwater shrimp	Family Palaemonidae	4	4	16	
		Total	89		381	
	<i>Melanoides tuberculata</i>	Family Thiaridae	1	none		
HBI					4.28	4.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020

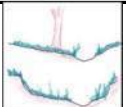
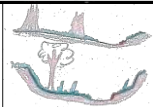
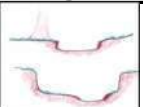
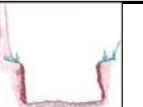
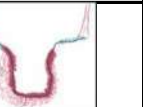
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine, strong smell of sulfide, no fish first two samples 9/29/2020

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-70
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested area, waster water treatment plant, houses, backyards							
Right Bank	% Riparian Area	1%	99%				100%
	Score	1	2				
Left Bank	% Riparian Area	93%	7%				100%
	Score	2	4.5				
						Rt Bk CI >	1.99
						Lt Bk CI >	2.18
							2.08

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-70

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mussel	Order Heterodonta	9	6	54	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	1	7	7	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Lunged snail	Order Limnophila	1	7	7	
	Aquatic worm	Class Oligochaeta	1	8	8	
		Total	15		91	
	<i>Melanoides tuberculata</i>	Family Thiaridae	1	none		
	HBI				6.07	2.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/28/2020

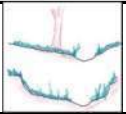
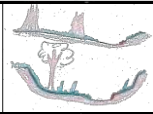
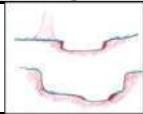
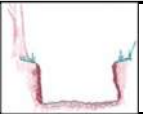
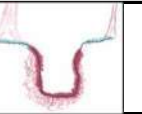
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine, d-net 9/28/2020

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-71
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested area, backyards, houses							
Right Bank	% Riparian Area	1%	99%				100%
	Score	1	2				
Left Bank	% Riparian Area	62%	38%				100%
	Score	2	4.5				
						Rt Bk CI >	1.99
						Lt Bk CI >	2.95
							2.47



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-71

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	1	3	3	
	Mussel	Order Heterodonta	2	6	12	
	Damselfly	Suborder Zygoptera	2	7	14	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Scud	Order Amphipoda	1	6	6	
	Aquatic worm	Class Oligochaeta	1	8	8	
	Freshwater shrimp	Family Palaemonidae	1	4	4	
		Total	11		62	
	<i>Melanoides tuberculata</i>	Family Thiaridae	1	none		
HBI					5.64	2.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/18/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-71

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	3				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	1				
	Total		4				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	1
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			32
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

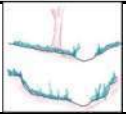
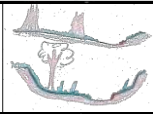
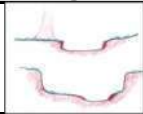
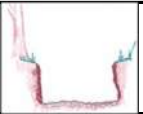
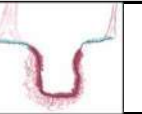
Notes: Collection method - seine, d-net, very few fish observed, closest transect to waste water treatment plant  
9/28/2020

Condition Index	1.69
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-72
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, backyards, houses, forested area							
Right Bank	% Riparian Area	2%	98%				100%
	Score	1	2				
Left Bank	% Riparian Area	64%	36%				100%
	Score	2	4.5				
						Rt Bk CI >	1.98
						Lt Bk CI >	2.90
							2.44

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-72

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Damselfly	Suborder Zygoptera	4	7	28	
	Scud	Order Amphipoda	2	6	12	
	Freshwater shrimp	Family Palaemonidae	1	4	4	
		Total	7		44	
	<i>Melanooides tuberculata</i>	Family Thiaridae	2	none		
	HBI				6.29	2.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/18/2020

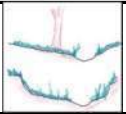
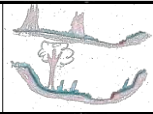
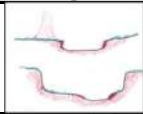
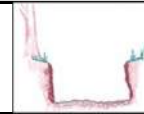
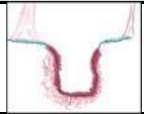
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine, very deep made sampling difficult 9/28/2020

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-73
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested area, maintained adjacent property, concrete intake structure, riprap							
Right Bank	% Riparian Area	100%					100%
	Score	2					
Left Bank	% Riparian Area	66%	34%				100%
	Score	2	4.5				
						Rt Bk CI >	2
						Lt Bk CI >	2.85
							2.43



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-73

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, riprap, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	4	3	12	
	Stonefly	Order Plecoptera	1	1	1	
	Damselfly	Suborder Zygoptera	8	7	56	
	Whirligig Beetle	Family Gyrinidae	1	6	6	
	Lunged snail	Order Limnophila	1	7	7	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	1	4	4	
		Total	17		94	
	<i>Melanoides tuberculata</i>	Family Thiaridae	5	none		
HBI					5.53	2.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/18/2020

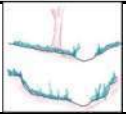
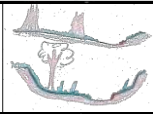
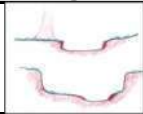
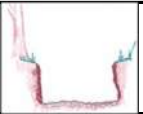
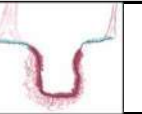
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine, d-net, very deep made sampling difficult 9/28/2020

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-74
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested area, riprap							
Right Bank	% Riparian Area	100%					100%
	Score	2					
Left Bank	% Riparian Area	66%	34%				100%
	Score	2	4.5				
						Rt Bk CI >	2.00
						Lt Bk CI >	2.85
							2.43

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-74

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	3	3	9	
	Gilled snail	Order Mesogastropoda	3	3	9	
	Mussel	Order Heterodonta	4	6	24	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	9	7	63	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	1	6	6	
	Lunged snail	Order Limnophila	1	7	7	
		Total	23		128	
	<i>Melanoides tuberculata</i>	Family Thiaridae	4	none		
HBI					5.57	2.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/18/2020

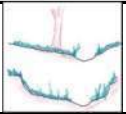
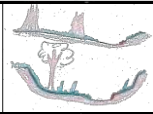
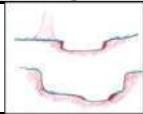
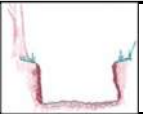
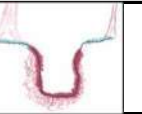
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - seine 9/28/2020

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-75
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested area, riprap							
Right Bank	% Riparian Area	1%	58%	41%			100%
	Score	1	2	4.5			
Left Bank	% Riparian Area	63%	37%			100%	Rt Bk CI > 3.02
	Score	2	4.5				Lt Bk CI > 2.93



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-75

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	
	Mayfly	Order Ephemeroptera	2	3	6	
	Gilled snail	Order Mesogastropoda	5	3	15	
	Mussel	Order Heterodonta	5	6	30	
	Damselfly	Suborder Zygoptera	11	7	77	
	Dragonfly	Suborder Anisoptera	4	5	20	
	Whirligig Beetle	Family Gyridae	1	6	6	
	Scud	Order Amphipoda	3	6	18	
	Lunged snail	Order Limnophila	1	7	7	
	Aquatic worm	Class Oligochaeta	3	8	24	
	Leech	Order Hirudinea	2	8	16	
	Freshwater shrimp	Family Palaemonidae	2	4	8	
		Total	39		227	
	Melanooides tuberculata	Family Thiaridae	31	none		
	HBI					5.82
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 9/18/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-75

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	21				
	Blacktail shiner	<i>Cyprinella venusta</i>	21				
	Total		42				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	1
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			32
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

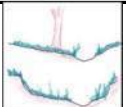
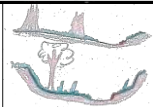
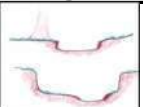
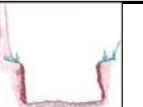
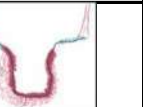
Notes: Collection method - seine 9/28/2020

Condition Index	1.79
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-76
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested area, riprap							
Right Bank	% Riparian Area	84%	16%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	1%	73%	26%			100%
	Score	1	2	4.5			
						Rt Bk CI >	2.40
						Lt Bk CI >	2.64
							2.52

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-76

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Gilled snail	Order Mesogastropoda	2	3	6	
	Mussel	Order Heterodonta	26	6	156	
	Damselfly	Suborder Zygoptera	3	7	21	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Sowbug	Order Isopoda	1	9	9	
	Lunged snail	Order Limnophila	1	7	7	
	Aquatic worm	Class Oligochaeta	1	8	8	
		Total	35		212	
	<i>Melanoides tuberculata</i>	Family Thiaridae	32	none		
HBI					6.06	2.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/18/2020

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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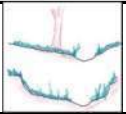
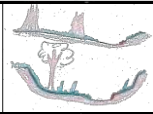
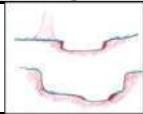
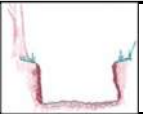
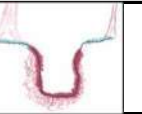
Notes: Collection method - 20 ft seine 9/28/2020

Condition Index	1.70
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-77
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested area, maintained adjacent property							
Right Bank	% Riparian Area	75%	25%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	73%	27%				100%
	Score	2	4.5				
						Rt Bk CI >	2.63
						Lt Bk CI >	2.68
							2.65



# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-77

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	3	3	9	
	Gilled snail	Order Mesogastropoda	23	3	69	
	Mussel	Order Heterodonta	3	6	18	
	Damselfly	Suborder Zygoptera	2	7	14	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Whirligig Beetle	Family Gyridae	1	6	6	
	Aquatic worm	Class Oligochaeta	1	8	8	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	3	4	12	
		Total	40		159	
	<i>Melanoides tuberculata</i>	Family Thiaridae	66	none		
HBI					3.98	4.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/18/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-77

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	58				
	Brook Silversides	<i>Labidesthes sicculus</i>	16				
	Total		74				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	1
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			32
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

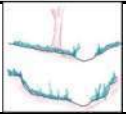
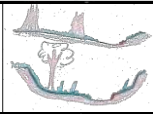
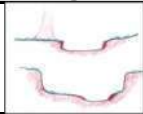
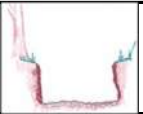
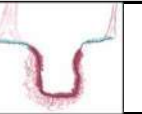
Notes: Collection method - 20 ft seine 9/28/2020

Condition Index	2.13
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-78
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, forested area, maintained adjacent property

Right Bank	% Riparian Area	75%	25%				100%	
	Score	2	4.5					
Left Bank	% Riparian Area	83%	17%				100%	Rt Bk CI > 2.63
	Score	2	4.5					Lt Bk CI > 2.43

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-78

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, riprap, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	7	3	21	
	Gilled snail	Order Mesogastropoda	2	3	6	
	Mussel	Order Heterodonta	7	6	42	
	Damselfly	Suborder Zygoptera	8	7	56	
	Scud	Order Amphipoda	3	6	18	
	Lunged snail	Order Limnophila	20	7	140	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	1	4	4	
		Total	49		295	
	<i>Melanoides tuberculata</i>	Family Thiaridae	52	none		
HBI					6.02	2.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/18/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-78

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	73				
	Bluegill	<i>Lepomis macrochirus</i>	1				
	Channel Catfish	<i>Ictalurus punctatus</i>	1				
	Total		75				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	1
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			32
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

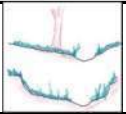
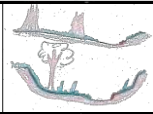
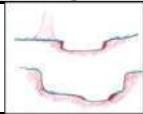
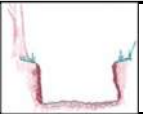
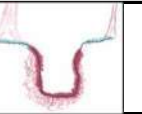
Notes: Collection method - 20 ft seine 9/28/2020

Condition Index	1.71
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# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-79
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species 30-59% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species 30-59% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, concrete lining, riprap, forested area							
Right Bank	% Riparian Area	98%	2%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	21%	63%	16%			100%
	Score	1	2	4.5			
						Rt Bk CI >	2.05
						Lt Bk CI >	2.19
							2.12



## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-79

### 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, riprap, no floodplain access

### 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	8	3	24	
	Gilled snail	Order Mesogastropoda	3	3	9	
	Mussel	Order Heterodonta	13	6	78	
	Damselfly	Suborder Zygoptera	11	7	77	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Lunged snail	Order Limnophila	30	7	210	
	Freshwater shrimp	Family Palaemonidae	1	4	4	
		Total	69		417	
	<i>Melanoides tuberculata</i>	Family Thiaridae	8	none		
HBI					6.04	2.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/18/2020

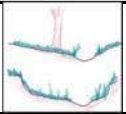
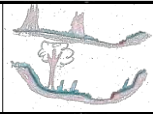
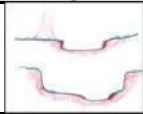
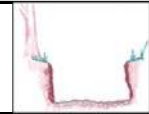
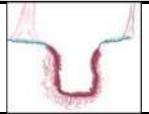
5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.	
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Notes: Collection method - 20 ft seine 9/28/2020

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-80
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, intake structure, riprap, forested area							
Right Bank	% Riparian Area	90%	10%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	1%	62%	37%			100%
	Score	1	2	4.5			
						Rt Bk CI >	2.25
						Lt Bk CI >	2.92
							2.58

# Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-80

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	4	3	12	
	Gilled snail	Order Mesogastropoda	3	3	9	
	Mussel	Order Heterodonta	3	6	18	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	6	7	42	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	2	6	12	
	Lunged snail	Order Limnophila	27	7	189	
		Total	47		292	
	<i>Melanoides tuberculata</i>	Family Thiaridae	107	none		
HBI					6.21	2.00

<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)

Notes: 9/18/2020

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-80

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	<b>Common Name</b>	<b>Scientific Name</b>	<b>Quantity</b>				
	Brook Silversides	<i>Labidesthes sicculus</i>	118				
	Total		118				
	Ecoregion 35 - South Central Plains Region			<b>Scores</b>			<b>Score</b>
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			<b>5</b>	<b>3</b>	<b>1</b>	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	1
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			34
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

Notes: Collection method - 20 ft seine, very deep 9/28/2020

Condition Index	1.72
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## Appendix D: TCEQ 2019 Tolerance Values for Benthic Macroinvertebrates



The following text is an addendum to the SWQM Procedures Manual RG-416, 05/2014 Revision, Appendix B, page B-29 to B-36.

**Table B.13.** Tolerance values and functional group classification for benthic macroinvertebrates.

Aquatic macroinvertebrates commonly collected in Texas streams. Shaded cells indicate tolerance values and/or functional classification taken from higher taxonomic levels.						
Functional groups: <b>SCR</b> = scraper; <b>CG</b> = collector gatherer; <b>FC</b> = filtering collector; <b>P</b> = predator; <b>SHR</b> = shredder						
For different feeding habits for larvae and adults: <b>L</b> = larvae; <b>A</b> = Adult						
Parameter Code	Genus or Species	Tolerance Value	Functional Group	Class	Order	Family
<b>91637</b>			<b>CG/SCR</b>	<b>Insecta</b>	<b>Ephemeroptera</b>	<b>Baetidae</b>
91645	<i>Acentrella</i> sp.	4	CG/SCR	Insecta	Ephemeroptera	Baetidae
91632	<i>Acerpenna</i> sp.	4	CG/SCR	Insecta	Ephemeroptera	Baetidae
91646	<i>Baetis</i> sp.	4	CG/SCR	Insecta	Ephemeroptera	Baetidae
91642	<i>Baetodes</i> sp.	4	SCR	Insecta	Ephemeroptera	Baetidae
91650	<i>Callibaetis</i> sp.	4	CG	Insecta	Ephemeroptera	Baetidae
91647	<i>Camelobaetidium</i> sp.	4	CG/SCR	Insecta	Ephemeroptera	Baetidae
91644	<i>Centroptilum</i> sp.	2	CG/SCR	Insecta	Ephemeroptera	Baetidae
91648	<i>Cloeon</i> sp.	4	SCR/CG	Insecta	Ephemeroptera	Baetidae
91651	<i>Fallceon quilleri</i>	4	CG/SCR	Insecta	Ephemeroptera	Baetidae
91579	<i>Labiobaetis</i> sp.	4	CG/SCR	Insecta	Ephemeroptera	Baetidae
91656	<i>Paracloeodes</i> sp.	9	CG/SCR	Insecta	Ephemeroptera	Baetidae
91581	<i>Plautitus</i> sp.	4	CG	Insecta	Ephemeroptera	Baetidae
91641	<i>Procloeon</i> sp.	4	CG/SCR	Insecta	Ephemeroptera	Baetidae
91675	<i>Pseudocentroptiloides</i> sp.	4	CG	Insecta	Ephemeroptera	Baetidae
91654	<i>Pseudocloeon</i> sp.	4	CG/SCR	Insecta	Ephemeroptera	Baetidae
<b>91617</b>			<b>CG/SCR</b>	<b>Insecta</b>	<b>Ephemeroptera</b>	<b>Caenidae</b>
91598	<i>Brachycercus</i> sp.	3	CG	Insecta	Ephemeroptera	Caenidae
91600	<i>Caenis</i> sp.	7	CG/SCR	Insecta	Ephemeroptera	Caenidae
91621	<i>Cercobrachys</i> sp.	7	CG	Insecta	Ephemeroptera	Caenidae
<b>91615</b>			<b>CG/SCR</b>	<b>Insecta</b>	<b>Ephemeroptera</b>	<b>Ephemerellidae</b>
91602	<i>Ephemerella</i> sp.	3	CG/SCR	Insecta	Ephemeroptera	Ephemerellidae
91628	<i>Eurylophella</i> sp.	4	CG	Insecta	Ephemeroptera	Ephemerellidae
<b>91563</b>		<b>4</b>	<b>CG</b>	<b>Insecta</b>	<b>Ephemeroptera</b>	<b>Ephemeridae</b>

Aquatic macroinvertebrates commonly collected in Texas streams. Shaded cells indicate tolerance values and/or functional classification taken from higher taxonomic levels.

Functional groups: **SCR** = scraper; **CG** = collector gatherer; **FC** = filtering collector; **P** = predator; **SHR** = shredder

For different feeding habits for larvae and adults: **L** = larvae; **A** = Adult

Parameter Code	Genus or Species	Tolerance Value	Functional Group	Class	Order	Family
91570	<i>Hexagenia</i> sp.	6	CG	Insecta	Ephemeroptera	Ephemeridae
<b>91607</b>		<b>4</b>	<b>SCR/CG</b>	<b>Insecta</b>	<b>Ephemeroptera</b>	<b>Heptageniidae</b>
91633	<i>Heptagenia</i> sp.	3	CG/SCR	Insecta	Ephemeroptera	Heptageniidae
91630	<i>Leucrocuta</i> sp.	2	CG/SCR	Insecta	Ephemeroptera	Heptageniidae
91510	<i>Maccaffertium</i> sp.	4	CG/SCR	Insecta	Ephemeroptera	Heptageniidae
91619	<i>Stenacron</i> sp.	4	CG/SCR	Insecta	Ephemeroptera	Heptageniidae
91620	<i>Stenonema</i> sp.	4	CG/SCR	Insecta	Ephemeroptera	Heptageniidae
<b>91622</b>			<b>FC</b>	<b>Insecta</b>	<b>Ephemeroptera</b>	<b>Isonychiidae</b>
91590	<i>Isonychia</i> sp.	3	FC	Insecta	Ephemeroptera	Isonychiidae
<b>91623</b>			<b>CG</b>	<b>Insecta</b>	<b>Ephemeroptera</b>	<b>Leptohyphidae</b>
91624	<i>Allenhyphes</i> sp.		CG	Insecta	Ephemeroptera	Leptohyphidae
91603	<i>Asioplax</i> sp.	4	CG	Insecta	Ephemeroptera	Leptohyphidae
91596	<i>Leptohyphes</i> sp.	2	CG	Insecta	Ephemeroptera	Leptohyphidae
91594	<i>Tricorythodes</i> sp.	5	CG	Insecta	Ephemeroptera	Leptohyphidae
91597	<i>Vacupernius packeri</i>	4	CG	Insecta	Ephemeroptera	Leptohyphidae
<b>91549</b>		<b>2</b>	<b>CG/SCR</b>	<b>Insecta</b>	<b>Ephemeroptera</b>	<b>Leptophlebiidae</b>
91554	<i>Choroterpes</i> sp.	2	CG/SCR	Insecta	Ephemeroptera	Leptophlebiidae
91661	<i>Farrodes texanus</i>	2	CG/SCR	Insecta	Ephemeroptera	Leptophlebiidae
91560	<i>Leptophlebia</i> sp.		CG/SHR	Insecta	Ephemeroptera	Leptophlebiidae
91550	<i>Paraleptophlebia</i> sp.	2	CG/SHR	Insecta	Ephemeroptera	Leptophlebiidae
91562	<i>Thraulodes</i> sp.	2	CG/SCR	Insecta	Ephemeroptera	Leptophlebiidae
91552	<i>Traverella</i> sp.	2	FC	Insecta	Ephemeroptera	Leptophlebiidae
91557	<i>Neochoroterpes</i> sp.	2	CG/SCR	Insecta	Ephemeroptera	Leptophlebiidae
<b>91565</b>		<b>4</b>	<b>CG/FC</b>	<b>Insecta</b>	<b>Ephemeroptera</b>	<b>Palingeniidae</b>
91625	<i>Pentagenia</i> sp.	4	CG/FC	Insecta	Ephemeroptera	Palingeniidae
91578	<i>Ephoron</i> sp.	2	CG/FC	<b>Insecta</b>	<b>Ephemeroptera</b>	<b>Polymitarcyidae</b>

Aquatic macroinvertebrates commonly collected in Texas streams. Shaded cells indicate tolerance values and/or functional classification taken from higher taxonomic levels.

Functional groups: **SCR** = scraper; **CG** = collector gatherer; **FC** = filtering collector; **P** = predator; **SHR** = shredder

For different feeding habits for larvae and adults: **L** = larvae; **A** = Adult

Parameter Code	Genus or Species	Tolerance Value	Functional Group	Class	Order	Family
91626	<i>Tortopus</i> sp.	2	CG/FC	Insecta	Ephemeroptera	Polymitarcyidae
<b>91627</b>			<b>SHR</b>	<b>Insecta</b>	<b>Plecoptera</b>	<b>Capniidae</b>
91861	<i>Allocapnia</i> sp.	2	SHR	Insecta	Plecoptera	Capniidae
<b>91634</b>			<b>CG/SHR</b>	<b>Insecta</b>	<b>Plecoptera</b>	<b>Leuctridae</b>
91859	<i>Zealeuctra</i> sp.	0	CG/SHR	Insecta	Plecoptera	Leuctridae
<b>91876</b>			<b>P</b>	<b>Insecta</b>	<b>Plecoptera</b>	<b>Perlidae</b>
91879	<i>Anacroneuria</i> sp.	1	P	Insecta	Plecoptera	Perlidae
91881	<i>Neoperla</i> sp.	1	P	Insecta	Plecoptera	Perlidae
91891	<i>Paragnetina</i> sp.	2	P	Insecta	Plecoptera	Perlidae
91883	<i>Perlesta</i> sp.	0	P	Insecta	Plecoptera	Perlidae
91887	<i>Perlinella</i> sp.	2	P	Insecta	Plecoptera	Perlidae
<b>91893</b>			<b>P</b>	<b>Insecta</b>	<b>Plecoptera</b>	<b>Perlodidae</b>
91895	<i>Hydroperla crosbyi</i>	2	P	Insecta	Plecoptera	Perlodidae
91896	<i>Isoperla</i> sp.	2	P	Insecta	Plecoptera	Perlodidae
<b>91872</b>			<b>CG/SHR</b>	<b>Insecta</b>	<b>Plecoptera</b>	<b>Taeniopterygidae</b>
91871	<i>Taeniopteryx</i> sp.	2	CG/SHR	Insecta	Plecoptera	Taeniopterygidae
<b>91635</b>			<b>FC/SCR</b>	<b>Insecta</b>	<b>Trichoptera</b>	<b>Brachycentridae</b>
92293	<i>Brachycentrus</i> sp.	1	FC/SCR	Insecta	Trichoptera	Brachycentridae
92356	<i>Phylloicus ornatus</i>		SHR	<b>Insecta</b>	<b>Trichoptera</b>	<b>Calamoceratidae</b>
92284	<i>Phylocentropus</i> sp.	5	FC	<b>Insecta</b>	<b>Trichoptera</b>	<b>Dipseudopsidae</b>
<b>91636</b>		<b>4</b>	<b>FC</b>	<b>Insecta</b>	<b>Trichoptera</b>	<b>Ecnomidae</b>
91640	<i>Austrotinodes</i> sp.	4	FC	Insecta	Trichoptera	Ecnomidae
<b>92315</b>			<b>CG/SCR</b>	<b>Insecta</b>	<b>Trichoptera</b>	<b>Glossosomatidae</b>
92316	<i>Agapetus</i> sp.	0	CG/SCR	Insecta	Trichoptera	Glossosomatidae
92338	<i>Culoptila</i> sp.	1	SCR	Insecta	Trichoptera	Glossosomatidae
92319	<i>Protoptila</i> sp.	1	SCR	Insecta	Trichoptera	Glossosomatidae

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<b>92375</b>		<b>2</b>	<b>SCR</b>	<b>Insecta</b>	<b>Trichoptera</b>	<b>Helicopsychidae</b>
92376	<i>Helicopsyche</i> sp.	2	SCR	Insecta	Trichoptera	Helicopsychidae
<b>91652</b>			<b>P</b>	<b>Insecta</b>	<b>Trichoptera</b>	<b>Hydrobiosidae</b>
92311	<i>Atopsyche</i> sp.	0	P	Insecta	Trichoptera	Hydrobiosidae
<b>92289</b>		<b>4</b>	<b>FC</b>	<b>Insecta</b>	<b>Trichoptera</b>	<b>Hydropsychidae</b>
92342	<i>Ceratopsyche</i> sp.	2	FC	Insecta	Trichoptera	Hydropsychidae
92292	<i>Cheumatopsyche</i> sp.	6	FC	Insecta	Trichoptera	Hydropsychidae
92294	<i>Diplectrona</i> sp.	2	FC	Insecta	Trichoptera	Hydropsychidae
92296	<i>Hydropsyche</i> sp.	5	FC	Insecta	Trichoptera	Hydropsychidae
92302	<i>Macrostemum</i> sp.	4	FC	Insecta	Trichoptera	Hydropsychidae
92305	<i>Potamyia</i> sp.	4	FC	Insecta	Trichoptera	Hydropsychidae
92308	<i>Smicridea</i> sp.	4	FC	Insecta	Trichoptera	Hydropsychidae
<b>92321</b>			<b>CG/SCR</b>	<b>Insecta</b>	<b>Trichoptera</b>	<b>Hydroptilidae</b>
92322	<i>Agraylea</i> sp.	6	CG	Insecta	Trichoptera	Hydroptilidae
92324	<i>Hydroptila</i> sp.	2	SCR	Insecta	Trichoptera	Hydroptilidae
92326	<i>Ithytrichia</i> sp.	4	SCR	Insecta	Trichoptera	Hydroptilidae
92327	<i>Leucotrichia</i> sp.	3	CG/SCR	Insecta	Trichoptera	Hydroptilidae
92329	<i>Mayatrichia</i> sp.	4	SCR	Insecta	Trichoptera	Hydroptilidae
92353	<i>Metrichia</i> sp.	4	SCR	Insecta	Trichoptera	Hydroptilidae
92330	<i>Neotrichia</i> sp.	4	SCR	Insecta	Trichoptera	Hydroptilidae
92332	<i>Ochrotrichia</i> sp.	4	CG	Insecta	Trichoptera	Hydroptilidae
92333	<i>Orthotrichia</i> sp.	6	SCR	Insecta	Trichoptera	Hydroptilidae
92335	<i>Oxyethira</i> sp.	2	CG/SCR	Insecta	Trichoptera	Hydroptilidae
92337	<i>Stactobiella</i> sp.	3	SHR	Insecta	Trichoptera	Hydroptilidae
<b>92383</b>			<b>CG/P/SHR</b>	<b>Insecta</b>	<b>Trichoptera</b>	<b>Leptoceridae</b>
92331	<i>Ceraclea</i> sp.	3	CG/P/SHR	Insecta	Trichoptera	Leptoceridae

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92387	<i>Leptocerus</i> sp.	4	SHR	Insecta	Trichoptera	Leptoceridae
92304	<i>Nectopsyche</i> sp.	3	CG/P/SHR	Insecta	Trichoptera	Leptoceridae
92391	<i>Oecetis</i> sp.	5	P/SHR	Insecta	Trichoptera	Leptoceridae
92365	<i>Setodes</i> sp.	2	CG/P	Insecta	Trichoptera	Leptoceridae
92395	<i>Triaenodes</i> sp.	3	P	Insecta	Trichoptera	Leptoceridae
<b>92359</b>			<b>SHR</b>	<b>Insecta</b>	<b>Trichoptera</b>	<b>Limnephilidae</b>
92371	<i>Pycnopsyche</i> sp.	2	SHR	Insecta	Trichoptera	Limnephilidae
<b>92377</b>			<b>SHR</b>	<b>Insecta</b>	<b>Trichoptera</b>	<b>Odontoceridae</b>
92378	<i>Marilia</i> sp.	0	SHR	Insecta	Trichoptera	Odontoceridae
<b>92267</b>			<b>FC</b>	<b>Insecta</b>	<b>Trichoptera</b>	<b>Philopotamidae</b>
92268	<i>Chimarra</i> sp.	2	FC	Insecta	Trichoptera	Philopotamidae
92334	<i>Dolophilodes</i> sp.	3	FC	Insecta	Trichoptera	Philopotamidae
92271	<i>Wormaldia</i> sp.	3	FC	Insecta	Trichoptera	Philopotamidae
<b>91681</b>			<b>SHR</b>	<b>Insecta</b>	<b>Trichoptera</b>	<b>Phryganeidae</b>
92351	<i>Ptilostomis</i> sp.	7	SHR	Insecta	Trichoptera	Phryganeidae
<b>92280</b>		<b>6</b>	<b>FC</b>	<b>Insecta</b>	<b>Trichoptera</b>	<b>Polycentropodidae</b>
92320	<i>Cyrnellus fraternus</i>	4	FC	Insecta	Trichoptera	Polycentropodidae
92274	<i>Cernotina</i> sp.	6	P	Insecta	Trichoptera	Polycentropodidae
92278	<i>Neureclipsis</i> sp.	4	FC/P/SHR	Insecta	Trichoptera	Polycentropodidae
92279	<i>Nyctiophylax</i> sp.	1	FC/P	Insecta	Trichoptera	Polycentropodidae
92281	<i>Polycentropus</i> sp.	3	FC/P	Insecta	Trichoptera	Polycentropodidae
92539	<i>Polypsectropus</i> sp.	6	FC/P	Insecta	Trichoptera	Polycentropodidae
<b>92273</b>			<b>CG/SCR</b>	<b>Insecta</b>	<b>Trichoptera</b>	<b>Psychomyiidae</b>
92276	<i>Lype</i> sp.		CG/SCR	Insecta	Trichoptera	Psychomyiidae
92285	<i>Psychomyia</i> sp.		CG/SCR	Insecta	Trichoptera	Psychomyiidae
<b>92310</b>			<b>P</b>	<b>Insecta</b>	<b>Trichoptera</b>	<b>Rhyacophilidae</b>

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92313	<i>Rhyacophila</i> sp.	0	P	Insecta	Trichoptera	Rhyacophilidae
<b>92071</b>			<b>P</b>	<b>Insecta</b>	<b>Megaloptera</b>	<b>Corydalidae</b>
92076	<i>Corydalus cornutus</i>	6	P	Insecta	Megaloptera	Corydalidae
92072	<i>Chauliodes</i> sp.	4	P	Insecta	Megaloptera	Corydalidae
<b>91689</b>		<b>5</b>	<b>P</b>	<b>Insecta</b>	<b>Megaloptera</b>	<b>Sialidae</b>
92069	<i>Sialis</i> sp.	5	P	Insecta	Megaloptera	Sialidae
<b>92081</b>			<b>P</b>	<b>Insecta</b>	<b>Neuroptera</b>	<b>Sisyridae</b>
91693	<i>Climacia</i> sp.		P	Insecta	Neuroptera	Sisyridae
91699	<i>Sisyra</i> sp.		P	Insecta	Neuroptera	Sisyridae
<b>91506</b>			<b>SCR/SHR</b>	<b>Insecta</b>	<b>Lepidoptera</b>	<b>Crambidae</b>
92731	<i>Acentria</i> sp.	1	SHR	Insecta	Lepidoptera	Crambidae
92726	<i>Crambus</i> sp.	5	SHR	Insecta	Lepidoptera	Crambidae
92663	<i>Elophila</i> sp.		SHR	Insecta	Lepidoptera	Crambidae
92659	<i>Paraponyx</i> sp.	5	SHR	Insecta	Lepidoptera	Crambidae
92686	<i>Petrophila</i> sp.	5	SCR	Insecta	Lepidoptera	Crambidae
<b>91362</b>			<b>SHR</b>	<b>Insecta</b>	<b>Lepidoptera</b>	<b>Noctuidae</b>
<b>92191</b>			<b>SHR</b>	<b>Insecta</b>	<b>Coleoptera</b>	<b>Chrysomelidae</b>
92192	<i>Donacia</i> sp.		SHR	Insecta	Coleoptera	Chrysomelidae
<b>92182</b>			<b>SHR</b>	<b>Insecta</b>	<b>Coleoptera</b>	<b>Curculionidae</b>
92199	<i>Listronotus</i> sp.		SHR	Insecta	Coleoptera	Curculionidae
92141	<i>Lixus</i> sp.		SHR	Insecta	Coleoptera	Curculionidae
<b>92214</b>			<b>CG/SCR</b>	<b>Insecta</b>	<b>Coleoptera</b>	<b>Dryopidae</b>
92215	<i>Dryops</i> sp.		CG/SCR	Insecta	Coleoptera	Dryopidae
92217	<i>Helichus</i> sp.	4	CG/SCR	Insecta	Coleoptera	Dryopidae
92219	<i>Pelonomus</i> sp.		CG/SCR	Insecta	Coleoptera	Dryopidae
91700	<i>Postelichus</i> sp.		CG/SCR	Insecta	Coleoptera	Dryopidae



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<b>92105</b>			<b>P</b>	<b>Insecta</b>	<b>Coleoptera</b>	<b>Dytiscidae</b>
92106	<i>Acilius</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
92108	<i>Agabus</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
92086	<i>Bidessonotus</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
92085	<i>Brachyvatus</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
92111	<i>Celina</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
92114	<i>Copelatus</i> sp.	9	P	Insecta	Coleoptera	Dytiscidae
92116	<i>Coptotomus</i> sp.	9	P	Insecta	Coleoptera	Dytiscidae
92117	<i>Cybister</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
92119	<i>Deronectes</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
92118	<i>Derovatellus</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
91508	<i>Desmopachria</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
92122	<i>Dytiscus</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
92126	<i>Hydaticus</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
92128	<i>Hydroporus</i> sp.	9	P	Insecta	Coleoptera	Dytiscidae
92130	<i>Hydrovatus</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
92083	<i>Laccophilus</i> sp.	10	P	Insecta	Coleoptera	Dytiscidae
92136	<i>Laccodytes</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
92112	<i>Liodessus</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
92187	<i>Neobidessus</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
92124	<i>Neoporus</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
92129	<i>Oreodytes</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
92138	<i>Thermonectus</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
92127	<i>Uvarus</i> sp.	5	P	Insecta	Coleoptera	Dytiscidae
<b>92225</b>			<b>CG/SCR</b>	<b>Insecta</b>	<b>Coleoptera</b>	<b>Elmidae</b>
91701	<i>Ampumixis</i> sp.	4	CG/SCR	Insecta	Coleoptera	Elmidae

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92226	<i>Ancyronyx</i> sp.	2	CG/SCR	Insecta	Coleoptera	Elmidae
92230	<i>Dubiraphia</i> sp.	5	CG/SCR	Insecta	Coleoptera	Elmidae
92233	<i>Heterelmis</i> sp.	4	CG/SCR	Insecta	Coleoptera	Elmidae
92235	<i>Hexacylloepus</i> sp.	2	CG/SCR	Insecta	Coleoptera	Elmidae
92232	<i>Macrelmis</i> sp.	4	CG/SCR	Insecta	Coleoptera	Elmidae
92240	<i>Macronychus</i> sp.	2	CG/SCR	Insecta	Coleoptera	Elmidae
92243	<i>Microcyllloepus</i> sp.	2	CG/SCR	Insecta	Coleoptera	Elmidae
92244	<i>Narpus</i> sp.	2	CG/SCR	Insecta	Coleoptera	Elmidae
92246	<i>Neelmis</i> sp.	2	CG/SCR	Insecta	Coleoptera	Elmidae
92261	<i>Phanocerus clavicornis</i>		CG/SCR	Insecta	Coleoptera	Elmidae
92253	<i>Stenelmis</i> sp.	7	CG/SCR	Insecta	Coleoptera	Elmidae
<b>92190</b>			<b>SCR</b>	<b>Insecta</b>	<b>Coleoptera</b>	<b>Georissidae (Georyssidae)</b>
91708	<i>Georissus (Georyssus)</i> sp.		SCR	Insecta	Coleoptera	Georissidae (Georyssidae)
<b>92089</b>		<b>5</b>	<b>P</b>	<b>Insecta</b>	<b>Coleoptera</b>	<b>Gyrinidae</b>
92090	<i>Dineutus</i> sp.	5	P	Insecta	Coleoptera	Gyrinidae
92092	<i>Gyretes</i> sp.	6	P	Insecta	Coleoptera	Gyrinidae
92093	<i>Gyrinus</i> sp.	6	P	Insecta	Coleoptera	Gyrinidae
<b>92095</b>		<b>7</b>	<b>P/SHR</b>	<b>Insecta</b>	<b>Coleoptera</b>	<b>Halipilidae</b>
92098	<i>Halipilus</i> sp.	7	P/SHR	Insecta	Coleoptera	Halipilidae
92100	<i>Peltodytes</i> sp.	8	P/SHR	Insecta	Coleoptera	Halipilidae
92168	<i>Helophorus</i> sp.	8	SHR	<b>Insecta</b>	<b>Coleoptera</b>	<b>Helophoridae</b>
91716	<i>Ochthebius</i> sp. (adult)	5	SCR/CG	<b>Insecta</b>	<b>Coleoptera</b>	<b>Hydraenidae</b>
92162	<i>Hydraena</i> sp. (adult)	5	SCR/CG	<b>Insecta</b>	<b>Coleoptera</b>	<b>Hydraenidae</b>
92165	<i>Hydrochus</i> sp.		SHR	<b>Insecta</b>	<b>Coleoptera</b>	<b>Hydrochidae</b>
<b>92153</b>	<b>Hydrophilidae</b>	<b>5</b>	<b>L = P</b> <b>A = CG</b>	<b>Insecta</b>	<b>Coleoptera</b>	<b>Hydrophilidae</b>

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92154	<i>Berosus</i> sp.	9	L = P A = CG/SHR	Insecta	Coleoptera	Hydrophilidae
92175	<i>Derallus</i> sp.	5	CG	Insecta	Coleoptera	Hydrophilidae
92161	<i>Enochrus</i> sp.	8	CG	Insecta	Coleoptera	Hydrophilidae
92166	<i>Helochaeres</i> sp.	5	CG	Insecta	Coleoptera	Hydrophilidae
91717	<i>Helocombus</i> sp.	5	CG	Insecta	Coleoptera	Hydrophilidae
92147	<i>Hydrobiomorpha</i> sp.		CG	Insecta	Coleoptera	Hydrophilidae
92170	<i>Hydrobius</i> sp.		CG	Insecta	Coleoptera	Hydrophilidae
92171	<i>Hydrophilus</i> sp.		CG	Insecta	Coleoptera	Hydrophilidae
92173	<i>Laccobius</i> sp.	8	L = P A = CG	Insecta	Coleoptera	Hydrophilidae
92179	<i>Paracymus</i> sp.	5	P	Insecta	Coleoptera	Hydrophilidae
92143	<i>Sperchopsis</i> sp.	5	L = P A = CG	Insecta	Coleoptera	Hydrophilidae
92180	<i>Tropisternus</i> sp.	10	L = P A = CG	Insecta	Coleoptera	Hydrophilidae
<b>91724</b>		<b>3</b>	<b>SHR</b>	<b>Insecta</b>	<b>Coleoptera</b>	<b>Lutrochidae</b>
92223	<i>Lutrochus</i> sp.	3	SHR	Insecta	Coleoptera	Lutrochidae
<b>92139</b>			<b>CG/P</b>	<b>Insecta</b>	<b>Coleoptera</b>	<b>Noteridae</b>
91735	<i>Notomicrus</i> sp.		P	Insecta	Coleoptera	Noteridae
92142	<i>Hydrocanthus</i> sp.	7	L = CG/P A = P	Insecta	Coleoptera	Noteridae
92146	<i>Suphisellus</i> sp.		P	Insecta	Coleoptera	Noteridae
<b>92208</b>			<b>SCR</b>	<b>Insecta</b>	<b>Coleoptera</b>	<b>Psephenidae</b>
92209	<i>Eubrianax</i> sp.	4	SCR	Insecta	Coleoptera	Psephenidae
92210	<i>Ectopria nervosa</i>	4	SCR	Insecta	Coleoptera	Psephenidae
92211	<i>Psephenus</i> sp.	4	SCR	Insecta	Coleoptera	Psephenidae

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<b>92729</b>			<b>CG/SCR/SHR</b>	<b>Insecta</b>	<b>Coleoptera</b>	<b>Scirtidae</b>
92264	<i>Elodes</i> sp.		CG/SCR/SHR	Insecta	Coleoptera	Scirtidae
92206	<i>Scirtes</i> sp.		SHR	Insecta	Coleoptera	Scirtidae
92198	<i>Cyphon</i> sp.	7	CG/SCR/SHR	Insecta	Coleoptera	Scirtidae
91736	<i>Prionocyphon</i> sp.		CG/SCR/SHR	Insecta	Coleoptera	Scirtidae
<b>92193</b>			<b>P</b>	<b>Insecta</b>	<b>Coleoptera</b>	<b>Staphylinidae</b>
92196	<i>Stenus</i> sp.		P	Insecta	Coleoptera	Staphylinidae
<b>91740</b>			<b>P</b>	<b>Insecta</b>	<b>Odonata</b>	<b>Aeschnidae</b>
91741	<i>Aeshna</i> sp.	4	P	Insecta	Odonata	Aeschnidae
91745	<i>Basiaeschna</i> sp.	2	P	Insecta	Odonata	Aeschnidae
91747	<i>Boyeria</i> sp.	3	P	Insecta	Odonata	Aeschnidae
91738	<i>Coryphaeschna</i> sp.	3	P	Insecta	Odonata	Aeschnidae
91793	<i>Epiaeschna</i> sp.	1	P	Insecta	Odonata	Aeschnidae
91757	<i>Nasiaeschna</i> sp.	8	P	Insecta	Odonata	Aeschnidae
<b>91666</b>			<b>P</b>	<b>Insecta</b>	<b>Odonata</b>	<b>Calopterygidae</b>
91667	<i>Calopteryx</i> sp.	5	P	Insecta	Odonata	Calopterygidae
91669	<i>Hetaerina</i> sp.	6	P	Insecta	Odonata	Calopterygidae
<b>91698</b>		<b>6</b>	<b>P</b>	<b>Insecta</b>	<b>Odonata</b>	<b>Coenagrionidae</b>
91683	<i>Argia</i> sp.	6	P	Insecta	Odonata	Coenagrionidae
91685	<i>Chromagrion</i> sp.	9	P	Insecta	Odonata	Coenagrionidae
91687	<i>Enallagma</i> sp.	6	P	Insecta	Odonata	Coenagrionidae
91749	<i>Hesperagrion</i> sp.	6	P	Insecta	Odonata	Coenagrionidae
91695	<i>Ischnura</i> sp.	9	P	Insecta	Odonata	Coenagrionidae
91703	<i>Telebasis</i> sp.		P	Insecta	Odonata	Coenagrionidae
<b>91751</b>			<b>P</b>	<b>Insecta</b>	<b>Odonata</b>	<b>Cordulegastridae</b>

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91764	<i>Cordulegaster</i> sp.	6	P	Insecta	Odonata	Cordulegastridae
<b>91766</b>			<b>P</b>	<b>Insecta</b>	<b>Odonata</b>	<b>Macromiidae</b> (subfamily of Corduliidae)
91767	<i>Didymops</i> sp.		P	Insecta	Odonata	Corduliidae
91769	<i>Macromia</i> sp.	3	P	Insecta	Odonata	Corduliidae
<b>91785</b>			<b>P</b>	<b>Insecta</b>	<b>Odonata</b>	<b>Corduliidae</b>
91786	<i>Dorocordulia</i> sp.	5	P	Insecta	Odonata	Corduliidae
91790	<i>Epicordulia</i> sp.	6	P	Insecta	Odonata	Corduliidae
91817	<i>Neurocordulia</i> sp.	3	P	Insecta	Odonata	Corduliidae
91837	<i>Somatochlora</i> sp.	1	P	Insecta	Odonata	Corduliidae
91791	<i>Epithea</i> sp.	7	P	Insecta	Odonata	Corduliidae
91796	<i>Helocordulia</i> sp.		P	Insecta	Odonata	Corduliidae
<b>91706</b>		<b>1</b>	<b>P</b>	<b>Insecta</b>	<b>Odonata</b>	<b>Gomphidae</b>
91707	<i>Aphylla</i> sp.	1	P	Insecta	Odonata	Gomphidae
91709	<i>Arigomphus</i> sp.	1	P	Insecta	Odonata	Gomphidae
91711	<i>Dromogomphus</i> sp.	4	P	Insecta	Odonata	Gomphidae
91713	<i>Erpetogomphus</i> sp.	1	P	Insecta	Odonata	Gomphidae
91715	<i>Gomphoides</i> sp.	1	P	Insecta	Odonata	Gomphidae
91718	<i>Gomphus</i> sp.	7	P	Insecta	Odonata	Gomphidae
91721	<i>Hagenius</i> sp.	3	P	Insecta	Odonata	Gomphidae
91728	<i>Ophiogomphus</i> sp.	6	P	Insecta	Odonata	Gomphidae
91696	<i>Phyllogomphoides</i> sp.	1	P	Insecta	Odonata	Gomphidae
91730	<i>Progomphus</i> sp.	5	P	Insecta	Odonata	Gomphidae
91733	<i>Stylurus</i> sp.	1	P	Insecta	Odonata	Gomphidae
<b>91671</b>			<b>P</b>	<b>Insecta</b>	<b>Odonata</b>	<b>Lestidae</b>
91674	<i>Lestes</i> sp.	9	P	Insecta	Odonata	Lestidae

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<b>91771</b>			<b>P</b>	<b>Insecta</b>	<b>Odonata</b>	<b>Libellulidae</b>
91776	<i>Brechmorhoga</i> sp.	6	P	Insecta	Odonata	Libellulidae
91788	<i>Dythemis</i> sp.	5	P	Insecta	Odonata	Libellulidae
91792	<i>Erythemis</i> sp.	5	P	Insecta	Odonata	Libellulidae
91794	<i>Erythrodiplax</i> sp.	5	P	Insecta	Odonata	Libellulidae
91804	<i>Leucorrhinia</i> sp.	9	P	Insecta	Odonata	Libellulidae
91806	<i>Libellula</i> sp.	8	P	Insecta	Odonata	Libellulidae
91813	<i>Miathyria</i> sp.	9	P	Insecta	Odonata	Libellulidae
91775	<i>Macrodiplax balteata</i>		P	Insecta	Odonata	Libellulidae
91811	<i>Macrothemis</i> sp.	9	P	Insecta	Odonata	Libellulidae
91816	<i>Nannothemis</i> sp.	9	P	Insecta	Odonata	Libellulidae
91819	<i>Orthemis</i> sp.	9	P	Insecta	Odonata	Libellulidae
91822	<i>Pachydiplax</i> sp.	10	P	Insecta	Odonata	Libellulidae
91826	<i>Pantala</i> sp.	9	P	Insecta	Odonata	Libellulidae
91827	<i>Perithemis</i> sp.	4	P	Insecta	Odonata	Libellulidae
91838	<i>Sympetrum</i> sp.	7	P	Insecta	Odonata	Libellulidae
<b>91985</b>			<b>P</b>	<b>Insecta</b>	<b>Hemiptera</b>	<b>Belostomatidae</b>
91986	<i>Abedus</i> sp.		P	Insecta	Hemiptera	Belostomatidae
91988	<i>Belostoma</i> sp.	10	P	Insecta	Hemiptera	Belostomatidae
91994	<i>Lethocerus</i> sp.		P	Insecta	Hemiptera	Belostomatidae
<b>92016</b>		<b>9</b>	<b>CG/P</b>	<b>Insecta</b>	<b>Hemiptera</b>	<b>Corixidae</b>
92030	<i>Graptocorixa</i> sp.	8	P	Insecta	Hemiptera	Corixidae
92031	<i>Hesperocorixa</i> sp.	9	CG/P	Insecta	Hemiptera	Corixidae
92009	<i>Palmarcorixa</i> sp.	9	CG/P	Insecta	Hemiptera	Corixidae
92044	<i>Trichocorixa</i> sp.	5	CG/P	Insecta	Hemiptera	Corixidae
<b>91982</b>			<b>P</b>	<b>Insecta</b>	<b>Hemiptera</b>	<b>Gelastocoridae</b>



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91983	<i>Gelastocoris</i> sp.		P	Insecta	Hemiptera	Gelastocoridae
<b>91929</b>			<b>P</b>	<b>Insecta</b>	<b>Hemiptera</b>	<b>Gerridae</b>
91951	<i>Aquarius</i> sp.	5	P	Insecta	Hemiptera	Gerridae
91930	<i>Gerris</i> sp.	5	P	Insecta	Hemiptera	Gerridae
91949	<i>Limnopus</i> sp.	5	P	Insecta	Hemiptera	Gerridae
91942	<i>Metrobates</i> sp.		P	Insecta	Hemiptera	Gerridae
91944	<i>Rheumatobates</i> sp.	5	P	Insecta	Hemiptera	Gerridae
91946	<i>Trepobates</i> sp.	5	P	Insecta	Hemiptera	Gerridae
<b>91955</b>			<b>P</b>	<b>Insecta</b>	<b>Hemiptera</b>	<b>Hebridae</b>
91915	<i>Hebrus</i> sp.		P	Insecta	Hemiptera	Hebridae
91917	<i>Merragata</i> sp.		P	Insecta	Hemiptera	Hebridae
91957	<i>Lipogomphus</i> sp.		P	Insecta	Hemiptera	Hebridae
<b>91753</b>			<b>P</b>	<b>Insecta</b>	<b>Hemiptera</b>	<b>Hydrometridae</b>
91913	<i>Hydrometra</i> sp.		P	Insecta	Hemiptera	Hydrometridae
<b>91952</b>			<b>P</b>	<b>Insecta</b>	<b>Hemiptera</b>	<b>Mesoveliidae</b>
91953	<i>Mesovelia</i> sp.		P	Insecta	Hemiptera	Mesoveliidae
92045	<i>Tenagobia</i> sp.	8	CG/P	<b>Insecta</b>	<b>Hemiptera</b>	<b>Micronectidae</b>
<b>92053</b>		5	<b>P</b>	<b>Insecta</b>	<b>Hemiptera</b>	<b>Naucoridae</b>
92054	<i>Ambrysus</i> sp.	5	P	Insecta	Hemiptera	Naucoridae
92057	<i>Cryphocricos</i> sp.	5	P	Insecta	Hemiptera	Naucoridae
92060	<i>Limnecoris</i> sp.	5	P	Insecta	Hemiptera	Naucoridae
92059	<i>Pelocoris</i> sp.	5	P	Insecta	Hemiptera	Naucoridae
<b>91997</b>			<b>P</b>	<b>Insecta</b>	<b>Hemiptera</b>	<b>Nepidae</b>
91996	<i>Curicta</i> sp.		P	Insecta	Hemiptera	Nepidae
92002	<i>Ranatra</i> sp.	8	P	Insecta	Hemiptera	Nepidae
<b>92047</b>			<b>P</b>	<b>Insecta</b>	<b>Hemiptera</b>	<b>Notonectidae</b>

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92048	<i>Buenoa</i> sp.		P	Insecta	Hemiptera	Notonectidae
92051	<i>Notonecta</i> sp.		P	Insecta	Hemiptera	Notonectidae
<b>92005</b>			<b>P</b>	<b>Insecta</b>	<b>Hemiptera</b>	<b>Pleidae</b>
92008	<i>Neoplea</i> sp.		P	Insecta	Hemiptera	Pleidae
92004	<i>Paraplea</i> sp.		P	Insecta	Hemiptera	Pleidae
<b>91964</b>			<b>P</b>	<b>Insecta</b>	<b>Hemiptera</b>	<b>Saldidae</b>
91965	<i>Saldula</i> sp.		P	Insecta	Hemiptera	Saldidae
<b>91918</b>			<b>P</b>	<b>Insecta</b>	<b>Hemiptera</b>	<b>Veliidae</b>
91919	<i>Microvelia</i> sp.	6	P	Insecta	Hemiptera	Veliidae
91923	<i>Rhagovelia</i> sp.	6	P	Insecta	Hemiptera	Veliidae
91755	<i>Steinovelia</i> sp.		P	Insecta	Hemiptera	Veliidae
<b>92491</b>		<b>6</b>	<b>CG/FC/P</b>	<b>Insecta</b>	<b>Diptera</b>	<b>Chironomidae</b>
92507	Subfamily: Chironominae	6	CG/FC/P	Insecta	Diptera	Chironomidae
92955	Tribe: Chironomini		CG	Insecta	Diptera	Chironomidae
92070	<i>Apedilum</i> sp.	6	CG	Insecta	Diptera	Chironomidae
92647	<i>Axarus</i> sp.	6	CG	Insecta	Diptera	Chironomidae
91756	<i>Beardius</i> sp.		CG/FC	Insecta	Diptera	Chironomidae
92508	<i>Chironomus</i> sp.	10	CG/SHR	Insecta	Diptera	Chironomidae
91759	<i>Cladopelma</i> sp.	2.5	CG	Insecta	Diptera	Chironomidae
92522	<i>Cryptochironomus</i> sp.	8	P	Insecta	Diptera	Chironomidae
92516	<i>Dicrotendipes</i> sp.	7	CG/FC	Insecta	Diptera	Chironomidae
92512	<i>Einfeldia</i> sp.	10	CG	Insecta	Diptera	Chironomidae
92520	<i>Endochironomus</i> sp.	6	CG/FC/SHR	Insecta	Diptera	Chironomidae
92531	<i>Glyptotendipes</i> sp.	8	CG/FC/SHR	Insecta	Diptera	Chironomidae
92525	<i>Goeldichironomus</i> sp.	8	CG	Insecta	Diptera	Chironomidae
92524	<i>Harnischia</i> sp.	8	CG	Insecta	Diptera	Chironomidae

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92514	<i>Kiefferulus</i> sp.	10	CG	Insecta	Diptera	Chironomidae
92535	<i>Lauterborniella</i> sp.	8	CG	Insecta	Diptera	Chironomidae
91497	<i>Microchironomus</i> sp.	8	CG	Insecta	Diptera	Chironomidae
92542	<i>Microtendipes</i> sp.	6	CG/FC	Insecta	Diptera	Chironomidae
92571	<i>Nilothauma</i> sp.	3	CG/FC	Insecta	Diptera	Chironomidae
92544	<i>Paratendipes</i> sp.	5	CG	Insecta	Diptera	Chironomidae
92526	<i>Parachironomus</i> sp.	9	CG/P	Insecta	Diptera	Chironomidae
92528	<i>Paracladopelma</i> sp.	6	CG	Insecta	Diptera	Chironomidae
92545	<i>Paralauterborniella</i> sp.	6	CG	Insecta	Diptera	Chironomidae
92537	<i>Phaenopsectra</i> sp.	8	CG/SCR	Insecta	Diptera	Chironomidae
92534	<i>Polypedilum</i> sp.	6	CG/P/SHR	Insecta	Diptera	Chironomidae
91007	<i>Robackia</i> sp.	6	CG	Insecta	Diptera	Chironomidae
92469	<i>Saetheria</i> sp.	8	CG	Insecta	Diptera	Chironomidae
91495	<i>Sergentia</i> sp.	6	CG/SCR	Insecta	Diptera	Chironomidae
92547	<i>Stictochironomus</i> sp.	8	CG/SHR	Insecta	Diptera	Chironomidae
92540	<i>Stenochironomus</i> sp.	6	CG/SHR	Insecta	Diptera	Chironomidae
91901	<i>Stelechomyia</i> sp.	5	CG	Insecta	Diptera	Chironomidae
92511	<i>Tribelos</i> sp.	5	CG	Insecta	Diptera	Chironomidae
92529	<i>Xenochironomus</i> sp.	7	P	Insecta	Diptera	Chironomidae
92530	<i>Xenochironomus xenolabis</i>	7	P	Insecta	Diptera	Chironomidae
91760	<i>Xestochironomus</i> sp.		P	Insecta	Diptera	Chironomidae
91761	Tribe: Pseudochironomini		CG	Insecta	Diptera	Chironomidae
92538	<i>Pseudochironomus</i> sp.	5	CG	Insecta	Diptera	Chironomidae
90996	Tribe: Tanytarsini	6	CG/FC	Insecta	Diptera	Chironomidae
92551	<i>Micropsectra</i> sp.	2	CG	Insecta	Diptera	Chironomidae
92552	<i>Cladotanytarsus</i> sp.	7	CG/FC	Insecta	Diptera	Chironomidae

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91899	<i>Nimbocera</i> sp.	6	CG/FC	Insecta	Diptera	Chironomidae
92441	<i>Paratanytarsus</i> sp.	8	CG/FC	Insecta	Diptera	Chironomidae
92555	<i>Rheotanytarsus</i> sp.	6	FC	Insecta	Diptera	Chironomidae
92405	<i>Stempellinella</i> sp.	3	CG/FC	Insecta	Diptera	Chironomidae
92554	<i>Tanytarsus</i> sp.	6	CG/FC	Insecta	Diptera	Chironomidae
92429	<i>Virgatanytarsus</i> sp.	6	CG/FC	Insecta	Diptera	Chironomidae
92557	Subfamily: Podonominae		CG/SCR	Insecta	Diptera	Chironomidae
92558	Subfamily: Diamesinae		CG/SCR	Insecta	Diptera	Chironomidae
92562	<i>Potthastia</i> sp.	2	CG/SCR	Insecta	Diptera	Chironomidae
91762	<i>Pseudodiamesa</i> sp.		CG	Insecta	Diptera	Chironomidae
92569	Subfamily: Orthoclaadiinae	6	CG	Insecta	Diptera	Chironomidae
	Tribe: Corynoneurini		CG	Insecta	Diptera	Chironomidae
92573	<i>Corynoneura</i> sp.	6	CG	Insecta	Diptera	Chironomidae
92588	<i>Thienemanniella</i> sp.	2	CG	Insecta	Diptera	Chironomidae
	Tribe: Orthocladini		CG	Insecta	Diptera	Chironomidae
91897	<i>Aricotopus</i> sp.	6	CG	Insecta	Diptera	Chironomidae
92570	<i>Brillia</i> sp.	5	CG/SHR	Insecta	Diptera	Chironomidae
92572	<i>Cardiocladius</i> sp.	2	P	Insecta	Diptera	Chironomidae
91892	<i>Chaetocladius</i> sp.	6	CG	Insecta	Diptera	Chironomidae
92575	<i>Cricotopus</i> sp.	8	CG	Insecta	Diptera	Chironomidae
92579	<i>Eukiefferiella</i> sp.	4	CG/P/SCR	Insecta	Diptera	Chironomidae
92614	<i>Hydrobaenus</i> sp.	10	CG/SCR	Insecta	Diptera	Chironomidae
92444	<i>Lopescladius</i> sp.	2	CG	Insecta	Diptera	Chironomidae
92581	<i>Metriocnemus</i> sp.	6	CG/P	Insecta	Diptera	Chironomidae
91686	<i>Nanocladius</i> sp.	7	CG	Insecta	Diptera	Chironomidae
92584	<i>Orthocladius</i> sp.	4	CG	Insecta	Diptera	Chironomidae

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91763	<i>Paracricotopus</i> sp.		CG	Insecta	Diptera	Chironomidae
91890	<i>Parakiefferiella</i> sp.	6	CG	Insecta	Diptera	Chironomidae
92583	<i>Parametriocnemus</i> sp.	4	CG	Insecta	Diptera	Chironomidae
91885	<i>Pseudosmittia</i> sp.	6	CG	Insecta	Diptera	Chironomidae
91920	<i>Rheocricotopus</i> sp.	6	CG/P/SHR	Insecta	Diptera	Chironomidae
91869	<i>Thienemannia</i> sp.	6	CG	Insecta	Diptera	Chironomidae
92406	<i>Xylotopus par</i>	7	CG	Insecta	Diptera	Chironomidae
92492/ 90984	Subfamily: Tanypodinae		P	Insecta	Diptera	Chironomidae
91765	Tribe: Coelotanypodini		P	Insecta	Diptera	Chironomidae
92734	<i>Alotanypus</i> sp.		P	Insecta	Diptera	Chironomidae
92498	<i>Clinotanypus</i> sp.	6	P	Insecta	Diptera	Chironomidae
92500	<i>Coelotanypus</i> sp.	6	P	Insecta	Diptera	Chironomidae
91866	<i>Fittkauimyia</i> sp.	6	P	Insecta	Diptera	Chironomidae
91768	Tribe: Macropelopiini		P	Insecta	Diptera	Chironomidae
92505	<i>Psectrotanypus</i> sp.	8	P	Insecta	Diptera	Chironomidae
91774	Tribe: Natarsiini		P	Insecta	Diptera	Chironomidae
91862	<i>Natarsia</i> sp.	10	P	Insecta	Diptera	Chironomidae
90998	Tribe: Pentaneurini		P	Insecta	Diptera	Chironomidae
92503	<i>Ablabesmyia</i> sp.	6	P/CG	Insecta	Diptera	Chironomidae
92502	<i>Conchapelopia</i> sp.	6	CG/P	Insecta	Diptera	Chironomidae
92834	<i>Guttipelopia</i> sp.		P	Insecta	Diptera	Chironomidae
92805	<i>Krenopelopia</i> sp.		P	Insecta	Diptera	Chironomidae
91854	<i>Labrundinia</i> sp.	4	P	Insecta	Diptera	Chironomidae
92678	<i>Larsia</i> sp.	6	P	Insecta	Diptera	Chironomidae
92610	<i>Meropelopia</i> sp.	6	P	Insecta	Diptera	Chironomidae

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92843	<i>Monopelopia</i> sp.	6	P	Insecta	Diptera	Chironomidae
92501	<i>Pentaneura</i> sp.	5	CG/P	Insecta	Diptera	Chironomidae
92496	<i>Nilotanytus</i> sp.	4	P	Insecta	Diptera	Chironomidae
92455	<i>Rheopelopia</i> sp.	6	P	Insecta	Diptera	Chironomidae
92637	<i>Telopelopia</i> sp.	6	P	Insecta	Diptera	Chironomidae
90976	<i>Thienemannimyia</i> sp.	6	P	Insecta	Diptera	Chironomidae
91778	Tribe: Procladiini		P/CG	Insecta	Diptera	Chironomidae
91864	<i>Djalmabatista</i> sp.	6	P	Insecta	Diptera	Chironomidae
92495	<i>Procladius</i> sp.	9	CG/P	Insecta	Diptera	Chironomidae
91780	Tribe: Tanypodini		P	Insecta	Diptera	Chironomidae
92493	<i>Tanytus</i> sp.	10	CG/P	Insecta	Diptera	Chironomidae
<b>92474</b>		<b>5</b>	<b>CG/P</b>	<b>Insecta</b>	<b>Diptera</b>	<b>Ceratopogonidae</b>
91008	<i>Alluaudomyia</i> sp.	5	P	Insecta	Diptera	Ceratopogonidae
92477	<i>Atrichopogon</i> sp.	4	CG/P	Insecta	Diptera	Ceratopogonidae
92478	<i>Bezzia</i> sp.	7	P	Insecta	Diptera	Ceratopogonidae
92475	<i>Ceratopogon</i> sp.		P	Insecta	Diptera	Ceratopogonidae
92480	<i>Culicoides</i> sp.	7	CG/P	Insecta	Diptera	Ceratopogonidae
92481	<i>Dasyhelea</i> sp.	5	CG/SCR	Insecta	Diptera	Ceratopogonidae
92369	<i>Forcipomyia</i> sp.	6	CG/SCR	Insecta	Diptera	Ceratopogonidae
92487	<i>Mallochohelea</i> sp.	6	P	Insecta	Diptera	Ceratopogonidae
92483	<i>Palpomyia</i> sp.	6	CG/P	Insecta	Diptera	Ceratopogonidae
92486	<i>Probezzia</i> sp.	6	P	Insecta	Diptera	Ceratopogonidae
92840	<i>Serromyia</i> sp.		P	Insecta	Diptera	Ceratopogonidae
92367	<i>Sphaeromyia</i> sp.	5	P/CG	Insecta	Diptera	Ceratopogonidae
92488	<i>Stilobezzia</i> sp.	5	P	Insecta	Diptera	Ceratopogonidae
<b>91781</b>			<b>CG</b>	<b>Insecta</b>	<b>Diptera</b>	<b>Ptychopteridae</b>



Aquatic macroinvertebrates commonly collected in Texas streams. Shaded cells indicate tolerance values and/or functional classification taken from higher taxonomic levels.

Functional groups: **SCR** = scraper; **CG** = collector gatherer; **FC** = filtering collector; **P** = predator; **SHR** = shredder

For different feeding habits for larvae and adults: **L** = larvae; **A** = Adult

Parameter Code	Genus or Species	Tolerance Value	Functional Group	Class	Order	Family
92603	<i>Bittacomorpha</i> sp.	8	CG	Insecta	Diptera	Ptychopteridae
91853	<i>Ptychoptera</i> sp.	8	CG/SHR	Insecta	Diptera	Ptychopteridae
<b>92673</b>			<b>P</b>	<b>Insecta</b>	<b>Diptera</b>	<b>Dolichopodidae</b>
92674	<i>Hydrophorus</i> sp.	10	P	Insecta	Diptera	Dolichopodidae
<b>92442</b>		<b>8</b>	<b>CG/FC</b>	<b>Insecta</b>	<b>Diptera</b>	<b>Culicidae</b>
92445	<i>Anopheles</i> sp.	9	FC	Insecta	Diptera	Culicidae
92453	<i>Culex</i> sp.	8	FC	Insecta	Diptera	Culicidae
91783	<i>Culiseta</i> sp.		CG/FC	Insecta	Diptera	Culicidae
92443	<i>Aedes</i> sp.	8	CG/FC	Insecta	Diptera	Culicidae
91784	<i>Uranotaenia</i> sp.		CG/FC	Insecta	Diptera	Culicidae
<b>92682</b>			<b>P</b>	<b>Insecta</b>	<b>Diptera</b>	<b>Chaoboridae</b>
92447	<i>Chaoborus</i> sp.	4	P	Insecta	Diptera	Chaoboridae
<b>92593</b>			<b>FC</b>	<b>Insecta</b>	<b>Diptera</b>	<b>Simuliidae</b>
92564	<i>Cnephia</i> sp.	4	FC	Insecta	Diptera	Simuliidae
92385	<i>Prosimulium</i> sp.	2	FC	Insecta	Diptera	Simuliidae
92596	<i>Simulium</i> sp.	4	FC	Insecta	Diptera	Simuliidae
<b>92420</b>		<b>3</b>	<b>SHR/CG</b>	<b>Insecta</b>	<b>Diptera</b>	<b>Tipulidae</b>
92421	<i>Antocha</i> sp.	5	CG	Insecta	Diptera	Tipulidae
92424	<i>Erioptera</i> sp.	3	CG	Insecta	Diptera	Tipulidae
92425	<i>Helius</i> sp.	3	CG/P/SHR	Insecta	Diptera	Tipulidae
92747	<i>Cryptolabis</i> sp.	3	CG/SHR	Insecta	Diptera	Tipulidae
91787	<i>Dicranota</i> sp.	2	P	Insecta	Diptera	Tipulidae
92427	<i>Hexatoma</i> sp.	4	P	Insecta	Diptera	Tipulidae
92432	<i>Geranomyia</i> sp.	4	P	Insecta	Diptera	Tipulidae
92428	<i>Limnophila</i> sp.	4	P	Insecta	Diptera	Tipulidae
92430	<i>Limonia</i> sp.	4	P	Insecta	Diptera	Tipulidae

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Parameter Code	Genus or Species	Tolerance Value	Functional Group	Class	Order	Family
91852	<i>Lipsothrix</i> sp.	3	SHR	Insecta	Diptera	Tipulidae
92435	<i>Ormosia</i> sp.	3	CG	Insecta	Diptera	Tipulidae
92433	<i>Pedicia</i> sp.		P	Insecta	Diptera	Tipulidae
92439	<i>Pseudolimnophila</i> sp.	7	CG/P/SHR	Insecta	Diptera	Tipulidae
92440	<i>Tipula</i> sp.	8	CG/SHR	Insecta	Diptera	Tipulidae
<b>92602</b>			<b>CG</b>	<b>Insecta</b>	<b>Diptera</b>	<b>Dixidae</b>
92708	<i>Dixella</i> sp.	8	CG/SHR	Insecta	Diptera	Dixidae
<b>92656</b>			<b>P</b>	<b>Insecta</b>	<b>Diptera</b>	<b>Athericidae</b>
92625	<i>Atherix</i> sp.	2	P	Insecta	Diptera	Athericidae
92705	<i>Suragina</i> sp.		P	Insecta	Diptera	Athericidae
<b>92618</b>			<b>P</b>	<b>Insecta</b>	<b>Diptera</b>	<b>Tabanidae</b>
92722	<i>Chlorotabanus</i> sp.		P	Insecta	Diptera	Tabanidae
92619	<i>Chrysops</i> sp.	7	P	Insecta	Diptera	Tabanidae
91795	<i>Haematopota</i> sp.		P	Insecta	Diptera	Tabanidae
92719	<i>Silvius</i> sp.		P	Insecta	Diptera	Tabanidae
92622	<i>Tabanus</i> sp.	7	P	Insecta	Diptera	Tabanidae
<b>92638</b>			<b>CG</b>	<b>Insecta</b>	<b>Diptera</b>	<b>Ephydriidae</b>
91797	<i>Hydrellia</i> sp.		SHR	Insecta	Diptera	Ephydriidae
91851	<i>Ochthera</i> sp.	8	P	Insecta	Diptera	Ephydriidae
<b>92630</b>			<b>CG</b>	<b>Insecta</b>	<b>Diptera</b>	<b>Syrphidae</b>
<b>92627</b>		<b>8</b>	<b>P</b>	<b>Insecta</b>	<b>Diptera</b>	<b>Empididae</b>
92628	<i>Hemerodromia</i> sp.	6	P	Insecta	Diptera	Empididae
<b>92467</b>			<b>CG</b>	<b>Insecta</b>	<b>Diptera</b>	<b>Psychodidae</b>
92470	<i>Pericoma</i> sp.	10	CG	Insecta	Diptera	Psychodidae
<b>92608</b>			<b>CG</b>	<b>Insecta</b>	<b>Diptera</b>	<b>Stratiomyidae</b>
92710	<i>Caloparyphus</i> sp.	10	CG/SCR	Insecta	Diptera	Stratiomyidae

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Parameter Code	Genus or Species	Tolerance Value	Functional Group	Class	Order	Family
92609	<i>Euparyphus</i> sp.	10	CG/SCR	Insecta	Diptera	Stratiomyidae
92690	<i>Myxosargus</i> sp.		CG	Insecta	Diptera	Stratiomyidae
92611	<i>Nemotelus</i> sp.		CG	Insecta	Diptera	Stratiomyidae
92613	<i>Odontomyia</i> sp.	7	CG	Insecta	Diptera	Stratiomyidae
92715	<i>Stratiomys</i> sp.		CG	Insecta	Diptera	Stratiomyidae
<b>91530</b>			<b>CG</b>	<b>Insecta</b>	<b>Collembola</b>	
91839	<i>Ellipes</i> sp.		SHR	Insecta	Orthoptera	Tridactylidae
<b>91238</b>		<b>4</b>	<b>SHR</b>	<b>Malacostraca</b>	<b>Amphipoda</b>	
91260	<i>Crangonyx</i> sp.	8	CG/SHR	Malacostraca	Amphipoda	Crangonyctidae
91265	<i>Gammarus</i> sp.	3	CG/SHR	Malacostraca	Amphipoda	Gammaridae
91267	<i>Gammarus lacustris</i>	4	CG/SHR	Malacostraca	Amphipoda	Gammaridae
91237	<i>Hyaella</i> sp.	8	CG/SHR	Malacostraca	Amphipoda	Hyaellidae
91241	<i>Hyaella azteca</i>	8	CG/SHR	Malacostraca	Amphipoda	Hyaellidae
<b>91183</b>			<b>CG</b>	<b>Malacostraca</b>	<b>Isopoda</b>	
<b>91195</b>		<b>8</b>	<b>CG/SHR</b>	<b>Malacostraca</b>	<b>Isopoda</b>	<b>Sphaeromatidae</b>
91224	<i>Asellus</i> sp.	9	CG/SHR	Malacostraca	Isopoda	Asellidae
91222	<i>Caecidotea</i> sp.	8	CG/SHR	Malacostraca	Isopoda	Asellidae
91227	<i>Lirceus</i> sp.	8	CG/SHR	Malacostraca	Isopoda	Asellidae
<b>91388</b>		<b>4</b>	<b>CG</b>	<b>Malacostraca</b>	<b>Decapoda</b>	<b>Palaemonidae</b>
91397	<i>Palaemonetes</i> sp.	4	CG	Malacostraca	Decapoda	Palaemonidae
91400	<i>Palaemonetes kadiakensis</i>	4	CG	Malacostraca	Decapoda	Palaemonidae
91401	<i>Palaemonetes paludosus</i>	4	CG	Malacostraca	Decapoda	Palaemonidae
91392	<i>Macrobrachium</i> sp.	4	CG	Malacostraca	Decapoda	Palaemonidae
<b>91416</b>		<b>4</b>	<b>CG</b>	<b>Malacostraca</b>	<b>Decapoda</b>	<b>Astacidae</b>
<b>91409</b>		<b>5</b>	<b>CG</b>	<b>Malacostraca</b>	<b>Decapoda</b>	<b>Cambaridae</b>
91419	<i>Cambarellus</i> sp.	5	CG	Malacostraca	Decapoda	Cambaridae

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Parameter Code	Genus or Species	Tolerance Value	Functional Group	Class	Order	Family
91423	<i>Cambarus</i> sp.	8	CG	Malacostraca	Decapoda	Cambaridae
91799	<i>Faxonella</i> sp.	5	CG	Malacostraca	Decapoda	Cambaridae
91428	<i>Orconectes</i> sp.	3	CG	Malacostraca	Decapoda	Cambaridae
91433	<i>Procambarus</i> sp.	9	CG	Malacostraca	Decapoda	Cambaridae
<b>92977</b>		<b>8</b>	<b>FC</b>	<b>Bivalvia</b>	<b>Unionoida</b>	<b>Unionidae</b>
92998	<i>Lampsilis</i> sp.	9	FC	Bivalvia	Unionoida	Unionidae
93037	<i>Corbicula fluminea</i>	6	FC	<b>Bivalvia</b>	<b>Veneroida</b>	<b>Corbiculidae</b>
<b>93024</b>		<b>8</b>	<b>FC</b>	<b>Bivalvia</b>	<b>Veneroida</b>	<b>Sphaeriidae (Pisidiidae)</b>
93032	<i>Sphaerium</i> sp.	5	FC	Bivalvia	Veneroida	Pisidiidae
93030	<i>Pisidium</i> sp.	7	FC	Bivalvia	Veneroida	Pisidiidae
93028	<i>Musculium</i> sp.	7	FC	Bivalvia	Veneroida	Pisidiidae
93026	<i>Eupera cubensis</i>		FC	Bivalvia	Veneroida	Pisidiidae
<b>92876</b>		<b>7</b>	<b>SCR</b>	<b>Gastropoda</b>	<b>Basommatophora</b>	<b>Lymnaeidae</b>
92748	<i>Fossaria</i> sp.	6	SCR	Gastropoda	Basommatophora	Lymnaeidae
92877	<i>Lymnaea</i> sp.	3	SCR	Gastropoda	Basommatophora	Lymnaeidae
92879	<i>Pseudosuccinea</i> sp.	7	SCR	Gastropoda	Basommatophora	Lymnaeidae
92894	<i>Pseudosuccinea columella</i>	7	SCR	Gastropoda	Basommatophora	Lymnaeidae
92920	<i>Stagnicola</i> sp.	7	SCR	Gastropoda	Basommatophora	Lymnaeidae
<b>92899</b>		<b>6</b>	<b>SCR</b>	<b>Gastropoda</b>	<b>Basommatophora</b>	<b>Ancylidae</b>
92900	<i>Ferrissia</i> sp.	7	SCR	Gastropoda	Basommatophora	Ancylidae
92905	<i>Ferrissia rivularis</i>	7	SCR	Gastropoda	Basommatophora	Ancylidae
92915	<i>Hebetancylus excentricus</i>	7	SCR	Gastropoda	Basommatophora	Ancylidae
92769	<i>Laevapex fuscus</i>		SCR	Gastropoda	Basommatophora	Ancylidae
<b>92881</b>		<b>7</b>	<b>SCR</b>	<b>Gastropoda</b>	<b>Basommatophora</b>	<b>Planorbidae</b>
92885	<i>Gyraulus</i> sp.	8	SCR	Gastropoda	Basommatophora	Planorbidae
92887	<i>Helisoma</i> sp.	7	SCR	Gastropoda	Basommatophora	Planorbidae

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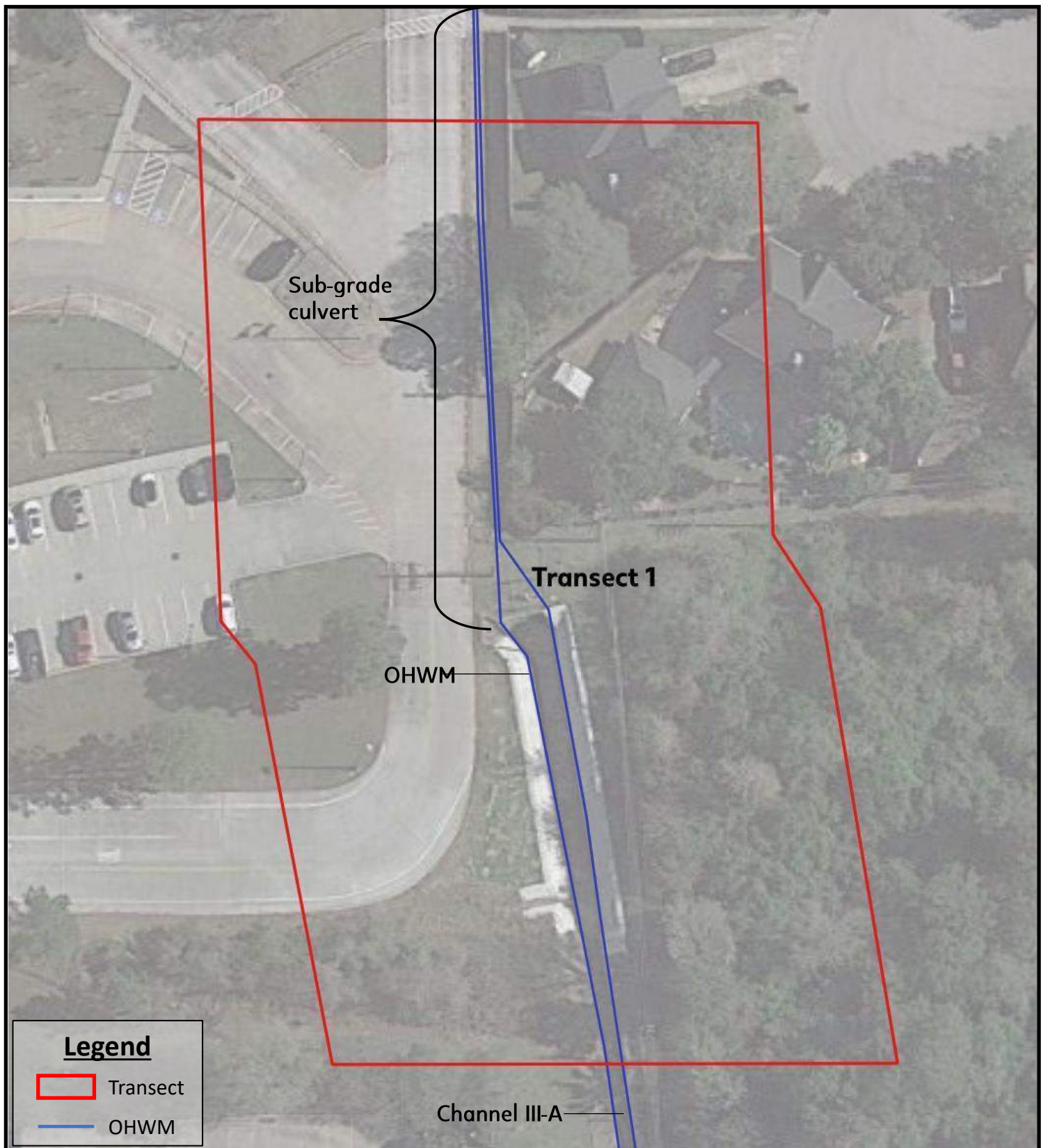
For different feeding habits for larvae and adults: **L** = larvae; **A** = Adult

Parameter Code	Genus or Species	Tolerance Value	Functional Group	Class	Order	Family
92889	<i>Menetus</i> sp.		SCR	Gastropoda	Basommatophora	Planorbidae
92922	<i>Menetus dilatatus</i>	7	SCR	Gastropoda	Basommatophora	Planorbidae
91503	<i>Biomphalaria</i> sp.	7	SCR	Gastropoda	Basommatophora	Planorbidae
92892	<i>Planorbella</i> sp.	6	SCR	Gastropoda	Basommatophora	Planorbidae
92891	<i>Planorbula</i> sp.	7	SCR	Gastropoda	Basommatophora	Planorbidae
<b>92871</b>		<b>9</b>	<b>SCR</b>	<b>Gastropoda</b>	<b>Basommatophora</b>	<b>Physidae</b>
92874	<i>Physa</i> sp.	9	SCR	Gastropoda	Basommatophora	Physidae
91809	<i>Physella</i> sp.		SCR	Gastropoda	Basommatophora	Physidae
<b>92783</b>		<b>7</b>	<b>SCR</b>	<b>Gastropoda</b>	<b>Neotaenioglossa</b>	<b>Hydrobiidae</b>
92763	<i>Amnicola</i> sp.	5	SCR	Gastropoda	Neotaenioglossa	Hydrobiidae
92791	<i>Cincinnatia cincinnatiensis</i>	7	SCR	Gastropoda	Neotaenioglossa	Hydrobiidae
92767	<i>Cochliopina riograndensis</i>		SCR	Gastropoda	Neotaenioglossa	Hydrobiidae
91800	<i>Pyrgophorus</i> sp.	7	SCR	Gastropoda	Neotaenioglossa	Hydrobiidae
91801	<i>Pyrgulopsis</i> sp.	5	SCR	Gastropoda	Neotaenioglossa	Hydrobiidae
92779	<i>Somatogyrus</i> sp.		SCR	Gastropoda	Neotaenioglossa	Hydrobiidae
<b>92777</b>			<b>SCR</b>	<b>Gastropoda</b>	<b>Neotaenioglossa</b>	<b>Pleuroceridae</b>
92780	<i>Elimia</i> sp.	2.5	SCR	Gastropoda	Neotaenioglossa	Pleuroceridae
92795	<i>Leptoxis</i> sp.	2	SCR	Gastropoda	Neotaenioglossa	Pleuroceridae
<b>91802</b>			<b>SCR</b>	<b>Gastropoda</b>	<b>Neotaenioglossa</b>	<b>Thiaridae</b>
92898	<i>Melanoides tuberculata</i>		SCR	Gastropoda	Neotaenioglossa	Thiaridae
<b>92759</b>			<b>SCR</b>	<b>Gastropoda</b>	<b>Heterostrophia</b>	<b>Valvatidae</b>
92760	<i>Valvata</i> sp.	2	SCR	Gastropoda	Heterostrophia	Valvatidae
<b>92754</b>			<b>SCR</b>	<b>Gastropoda</b>	<b>Architaenioglossa</b>	<b>Viviparidae</b>
92756	<i>Campeloma</i> sp.	7	SCR	Gastropoda	Architaenioglossa	Viviparidae
92757	<i>Viviparus</i> sp.	1	SCR	Gastropoda	Architaenioglossa	Viviparidae
<b>91114</b>			<b>FC</b>	<b>Branchiopoda</b>	<b>Suborder Cladocera</b>	

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For different feeding habits for larvae and adults: <b>L</b> = larvae; <b>A</b> = Adult						
Parameter Code	Genus or Species	Tolerance Value	Functional Group	Class	Order	Family
91119			CG	Maxillopoda	Subclass Copepoda	
91056		8	CG	Ostracoda		
91525		6	P	Arachnida (subclass Acari)	Trombidiformes	Hydracarina (Hydrachnidia)
91803			P	Arachnida	Trombidiformes	Rhynchohydracaridae
91559	<i>Clathrosperchon</i> sp.	8	P	Arachnida	Trombidiformes	Rhynchohydracaridae
90913		8	P	Hirudinea		
90383		10	P	Clitellata	Branchiobdellida	Branchiobdellidae
90386	<i>Branchiobdella</i> sp.	7	P	Clitellata	Branchiobdellida	Branchiobdellidae
90914			P	Clitellata	Hirudinida	Glossiphoniidae
91805	<i>Gloiobdella</i> sp.	8	P	Clitellata	Hirudinida	Glossiphoniidae
90921	<i>Helobdella</i> sp.	6	P	Clitellata	Hirudinida	Glossiphoniidae
90931	<i>Placobdella</i> sp.	6	P	Clitellata	Hirudinida	Glossiphoniidae
90966			P	Clitellata	Hirudinida	Erpobdellidae
90967	<i>Erpobdella</i> sp.	8	P	Clitellata	Hirudinida	Erpobdellidae
93095	<i>Mooreobdella</i> sp.	8	P	Clitellata	Hirudinida	Erpobdellidae
90382		8	CG	Oligochaeta (Clitellata)		
90072			P	Turbellaria		
91807			P	Trepaxonemata	Neoophora	Dugesiidae
91808	<i>Cura</i> sp.		P	Trepaxonemata	Neoophora	Dugesiidae
90075	<i>Dugesia</i> sp.	7.5	P	Trepaxonemata	Neoophora	Dugesiidae
90196		5	P	Phylum Nematoda		
90290		5	P	Phylum Nemertea		
90179	<i>Prostoma</i> sp.	7	P	Enopla	Hoplonemertea	Tetrastemmatidae
90291			P	Phylum: Nematomorpha		



## Appendix E: Aerial Photographs



Project:  
Stream Condition Assessment  
Channel III-A  
Spring, Montgomery County, TX

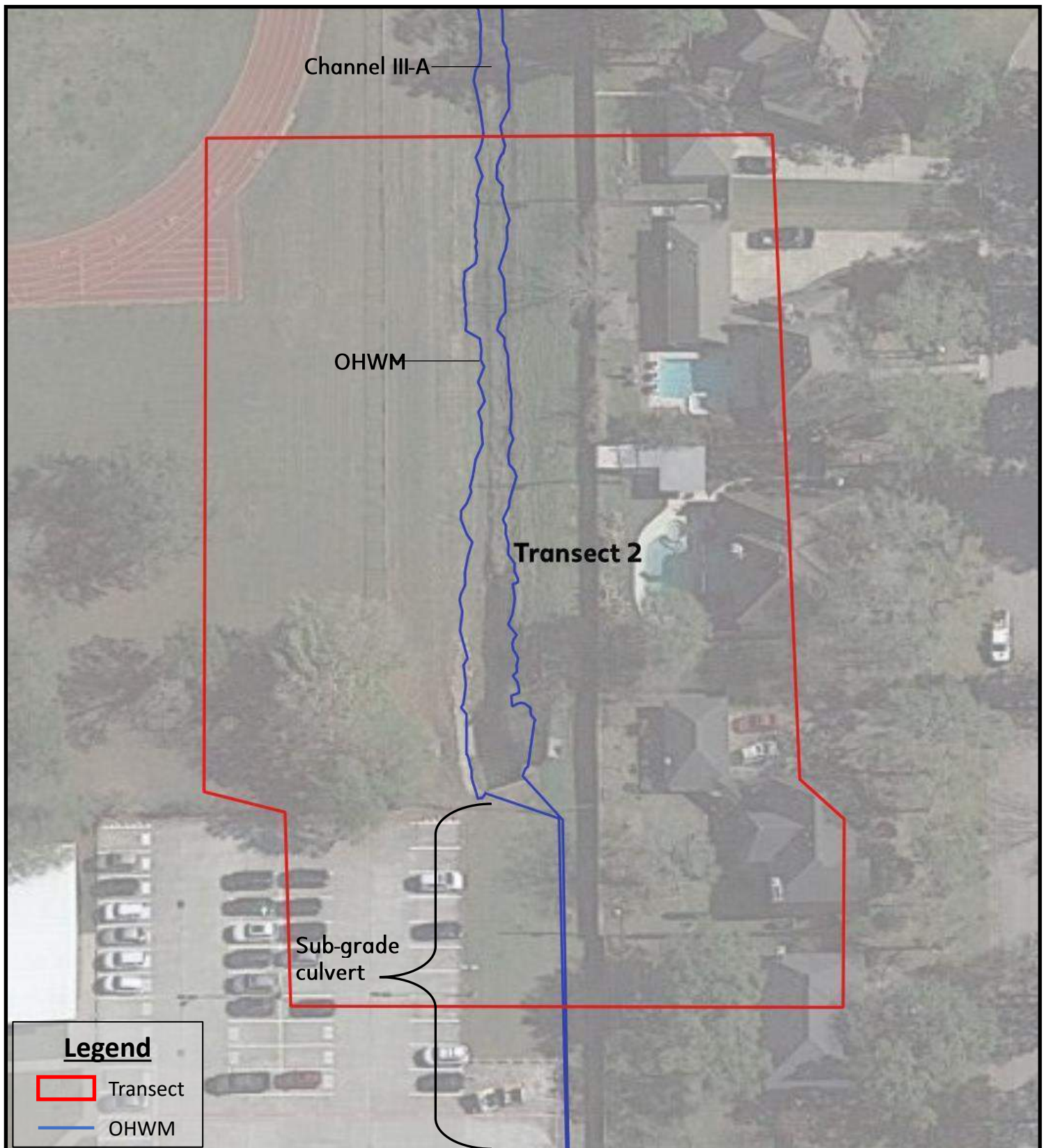
**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



Project:  
Stream Condition Assessment  
Channel III-A  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

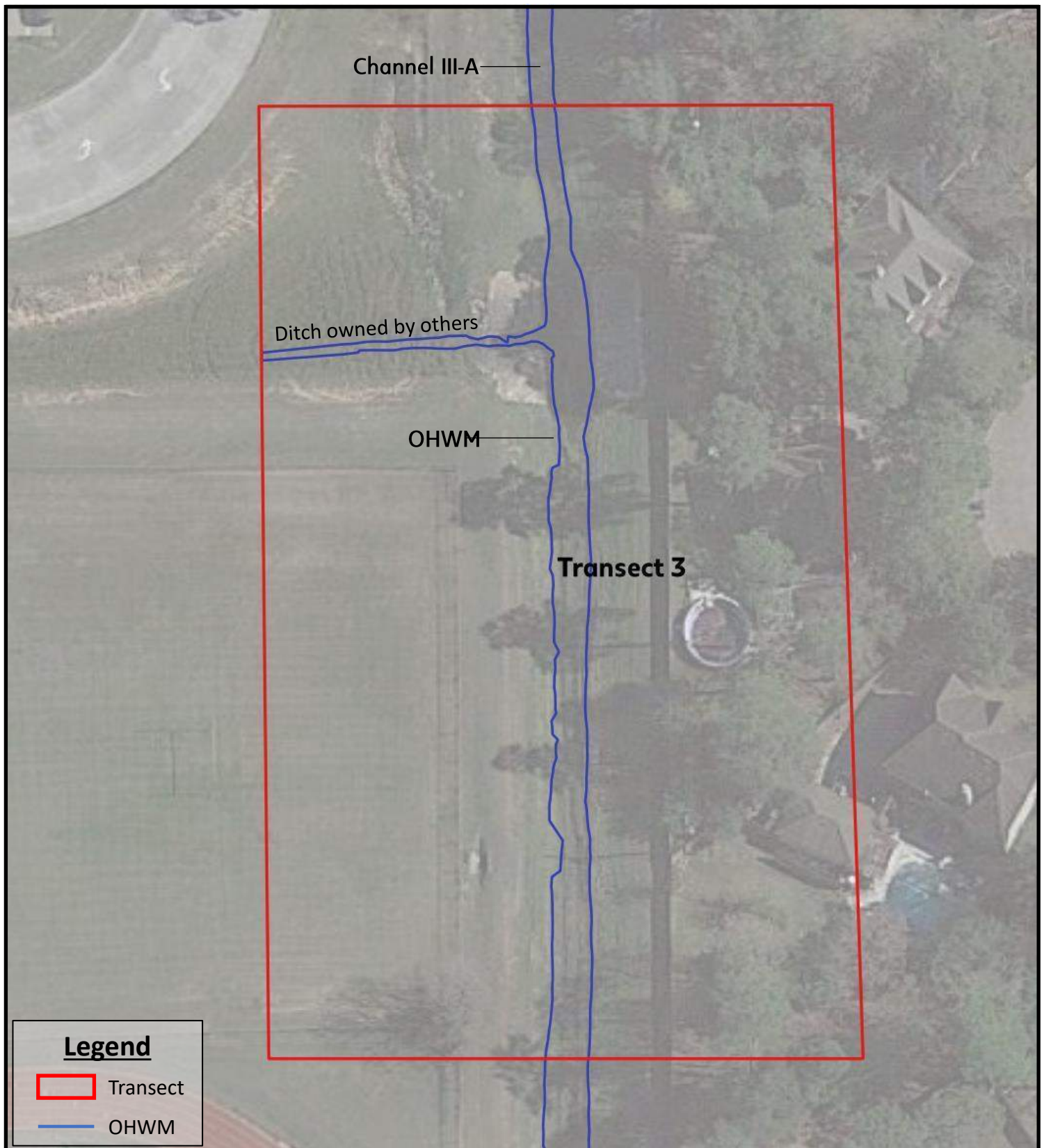


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Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-A  
Spring, Montgomery County, TX

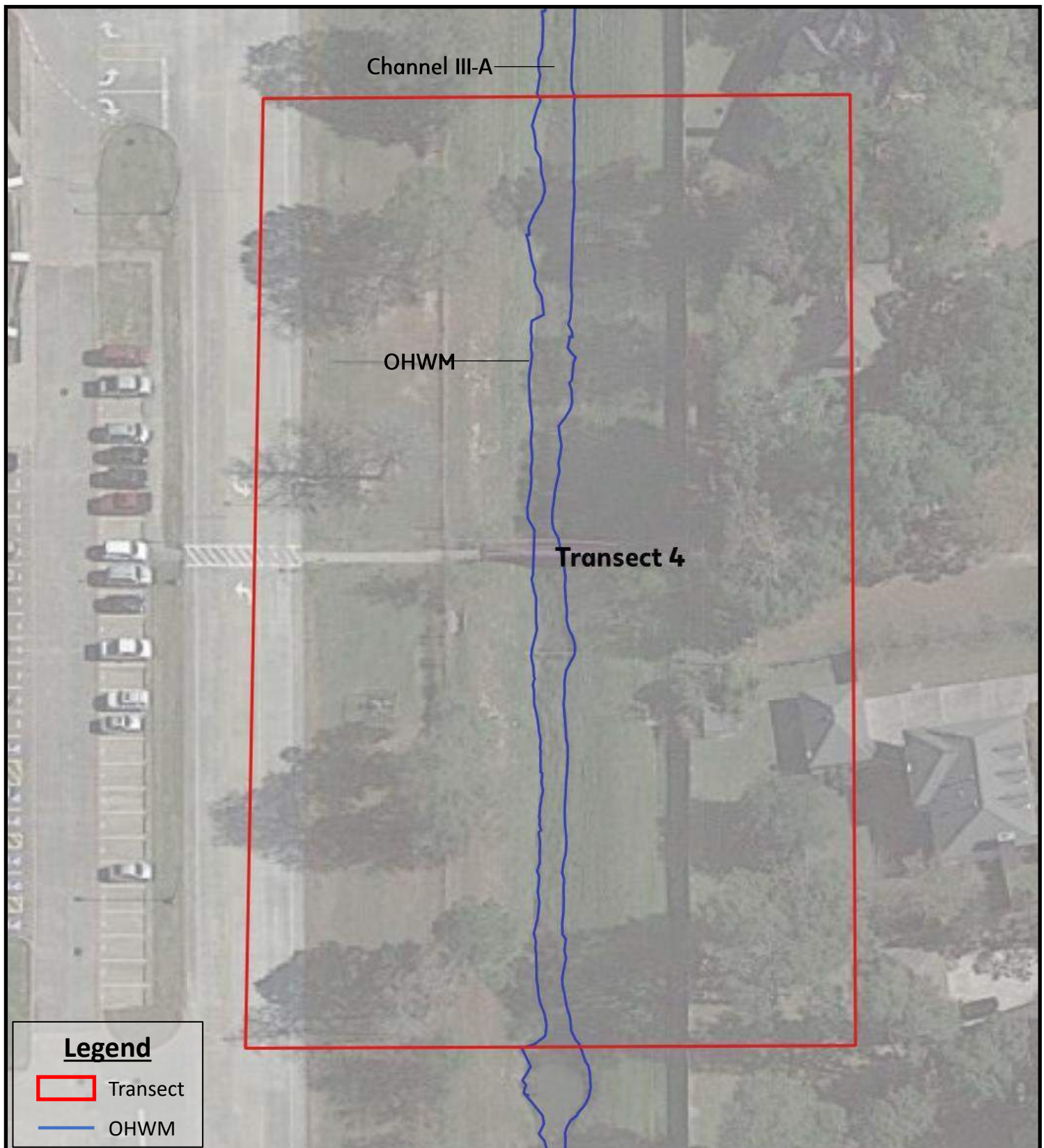
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Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-A  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

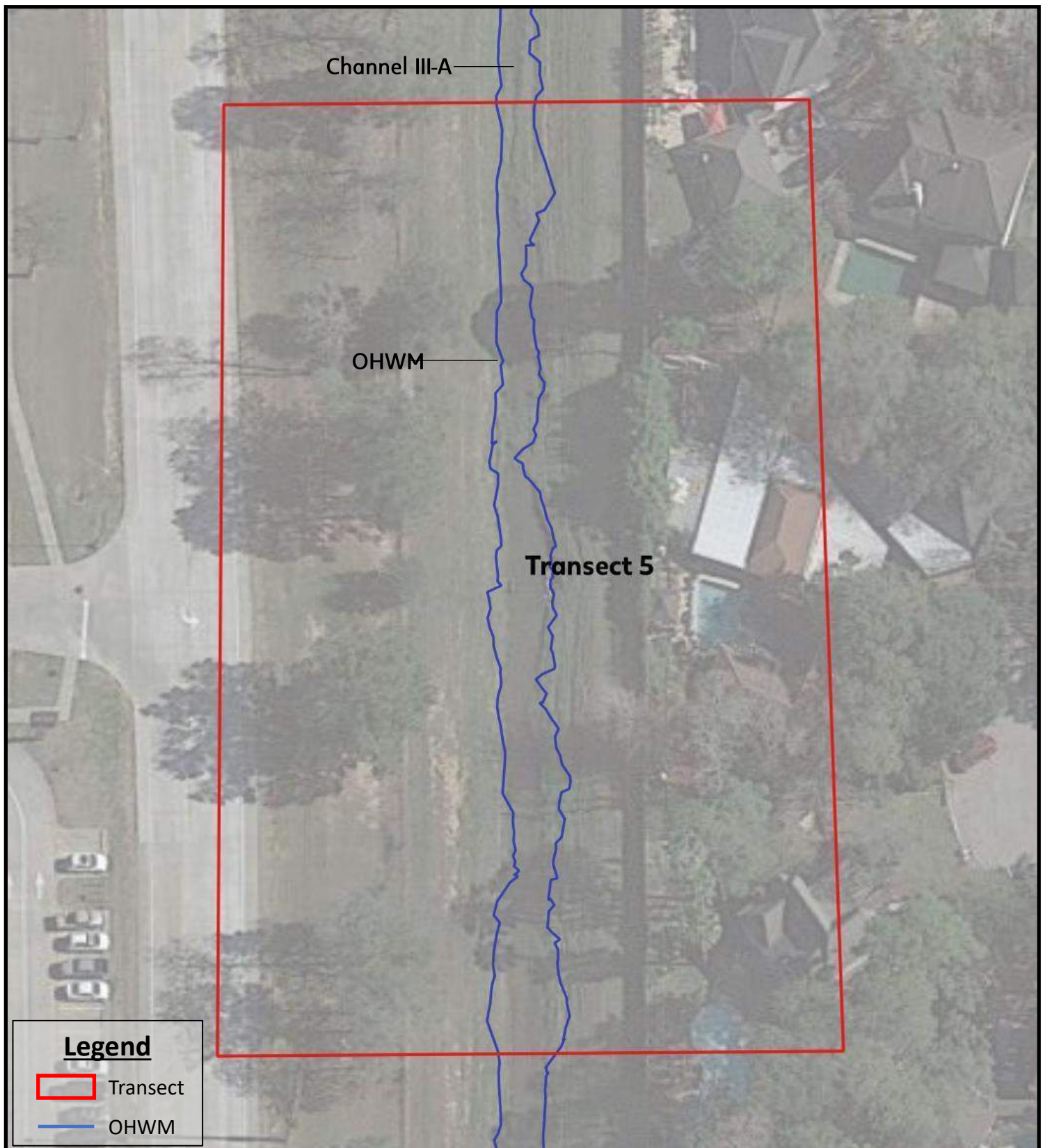


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Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-A  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

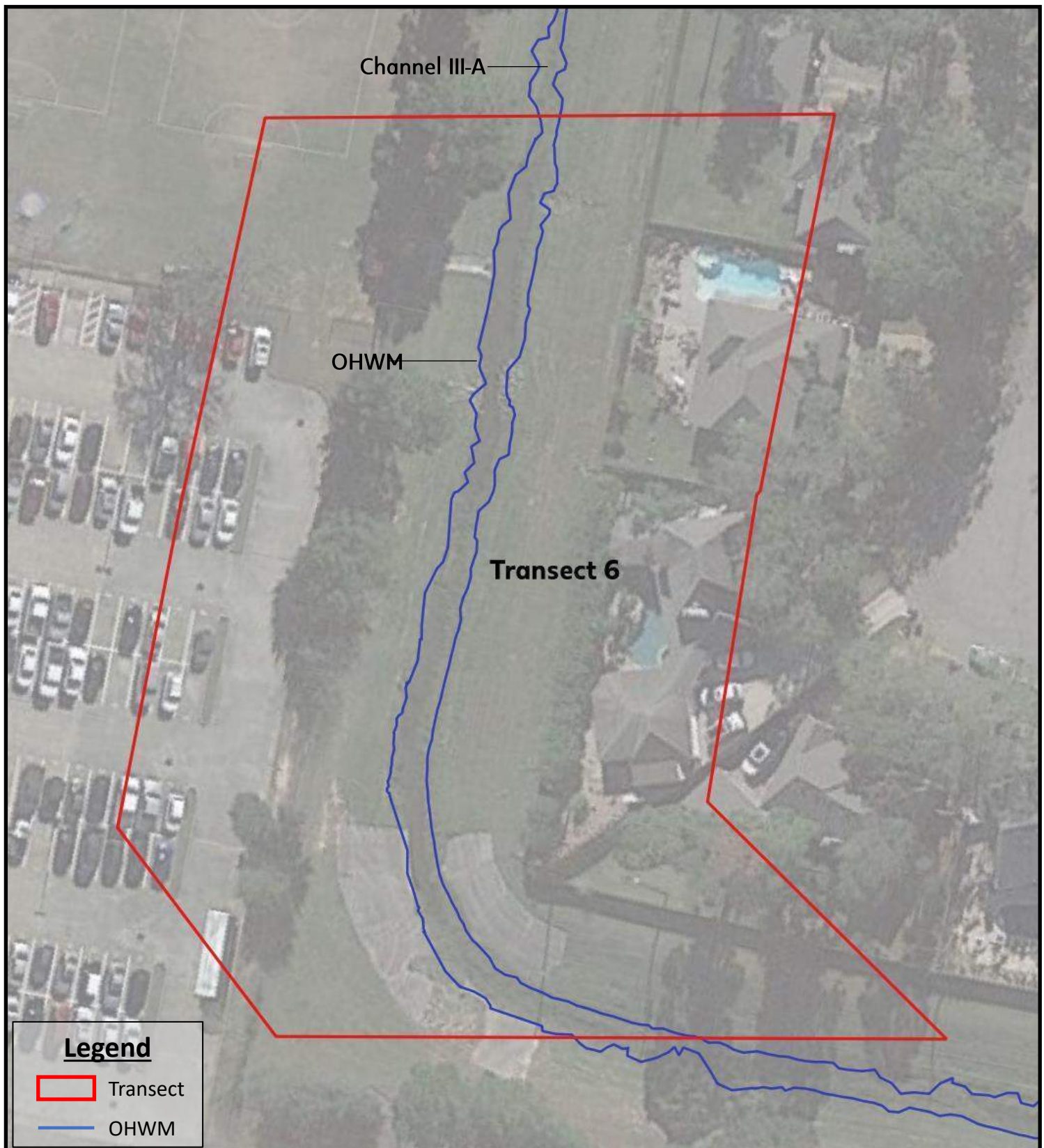


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-A  
Spring, Montgomery County, TX

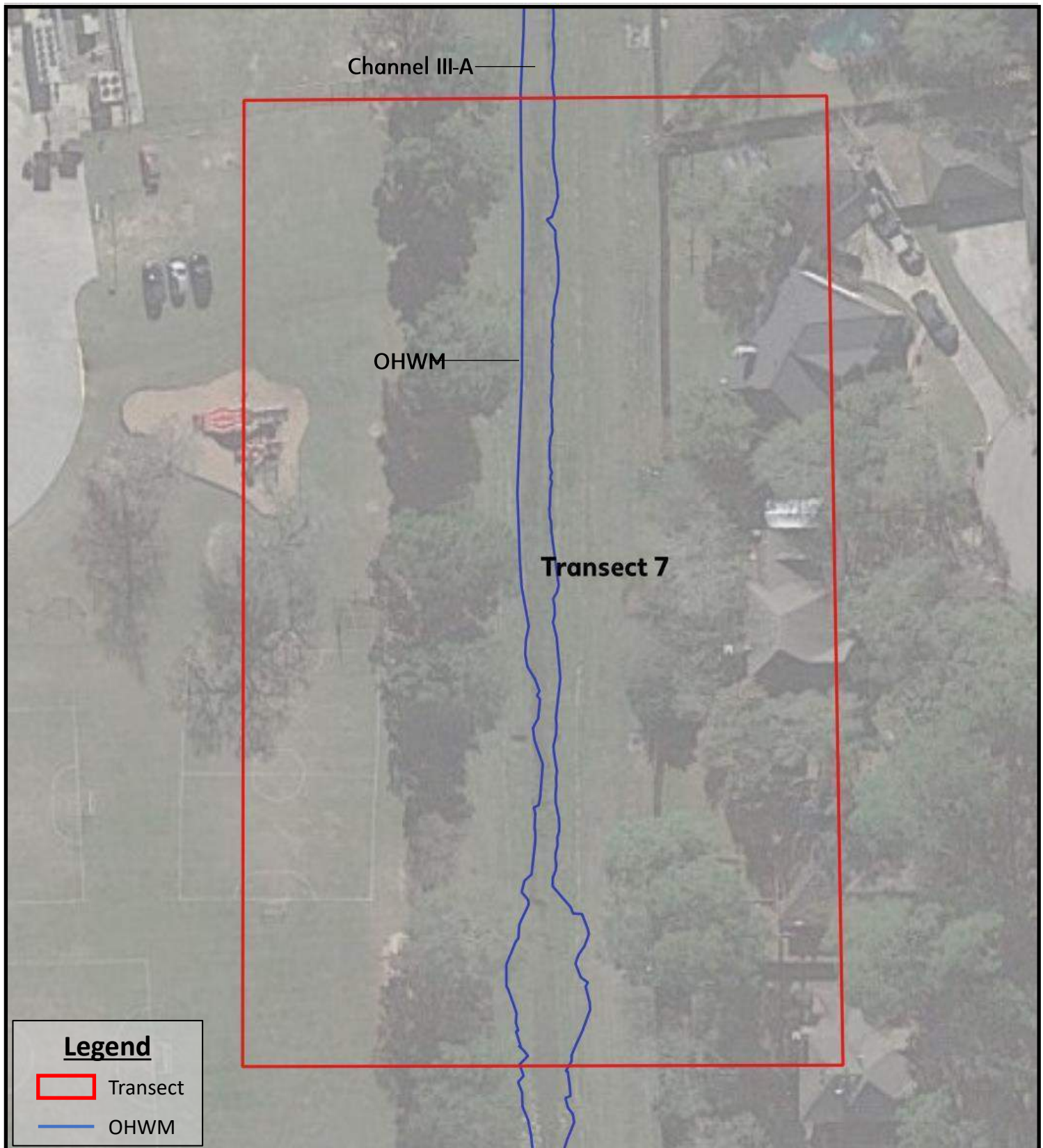
**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



Project:  
Stream Condition Assessment  
Channel III-A  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-A  
Spring, Montgomery County, TX

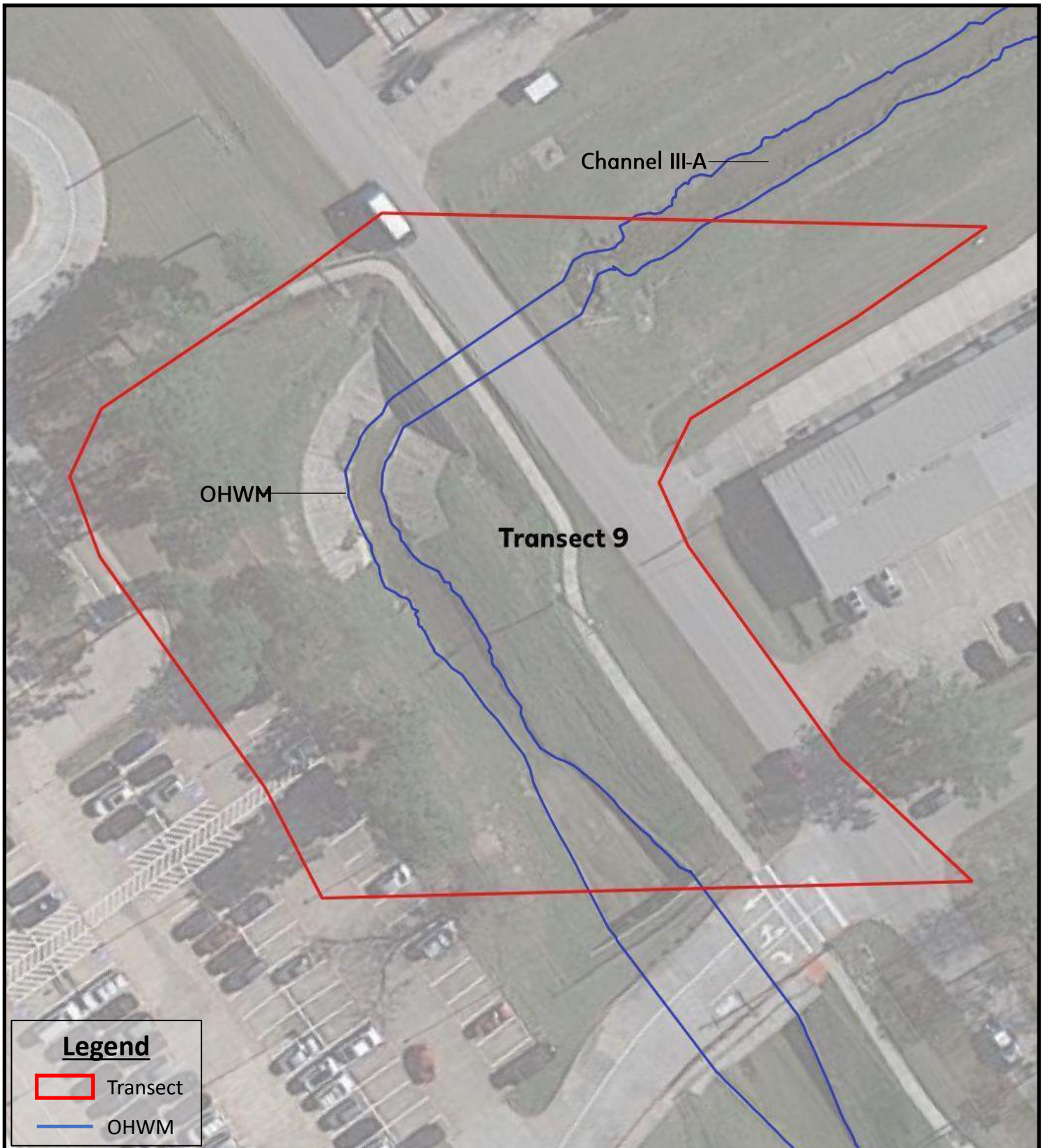
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Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



Project:  
Stream Condition Assessment  
Channel III-A  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

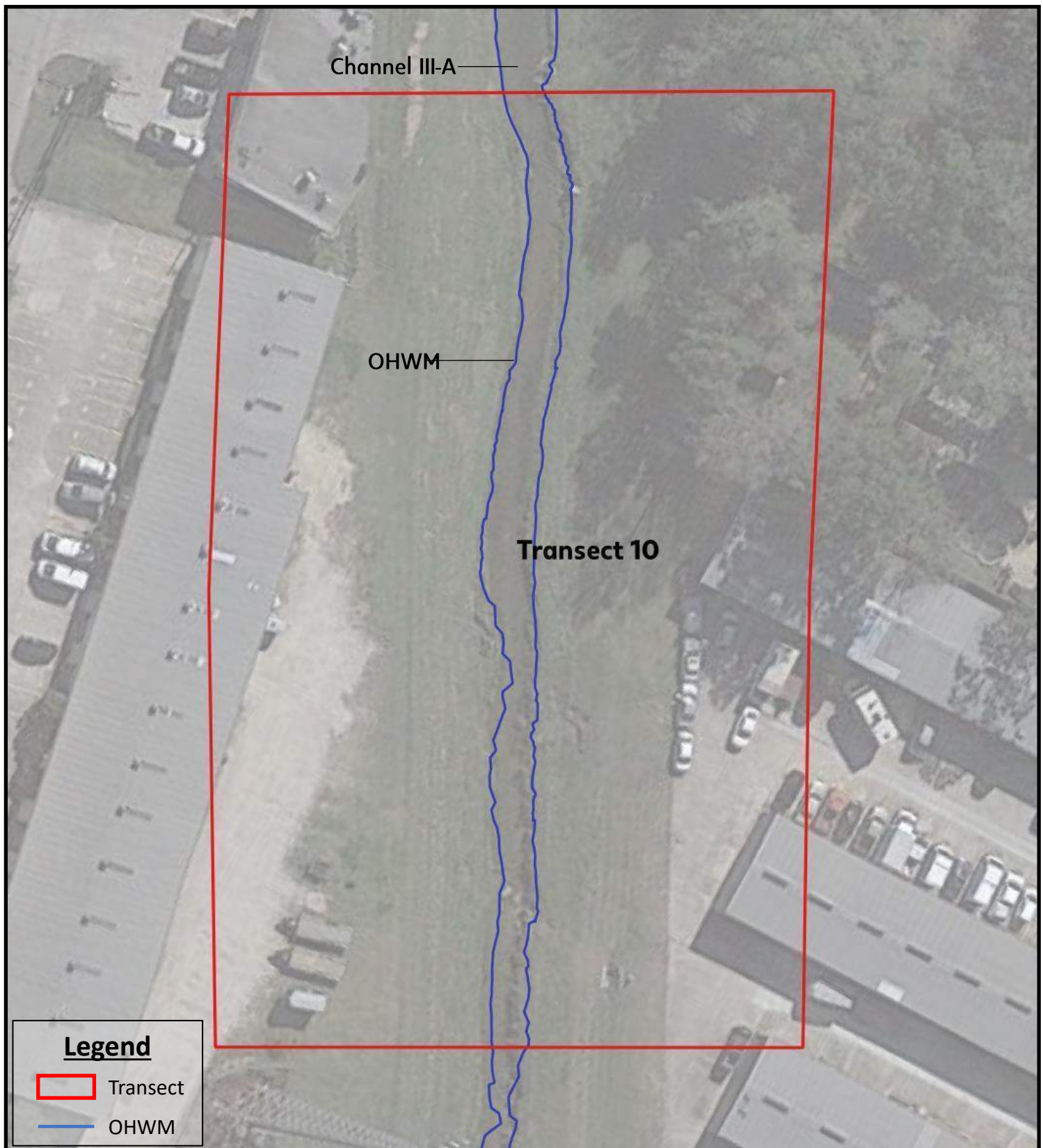


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-A  
Spring, Montgomery County, TX

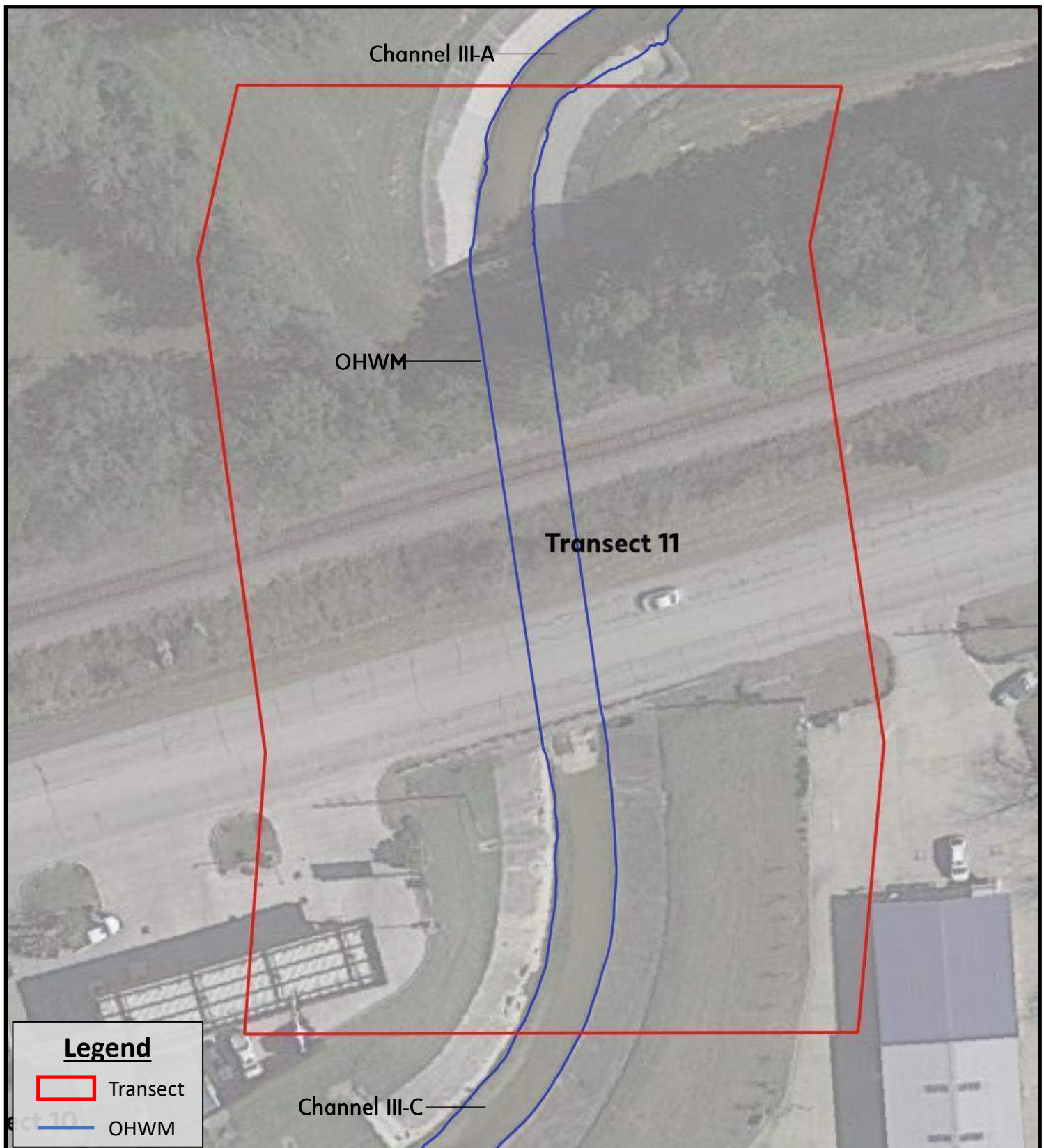
**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



Project:  
Stream Condition Assessment  
Channel III-A & III-C  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

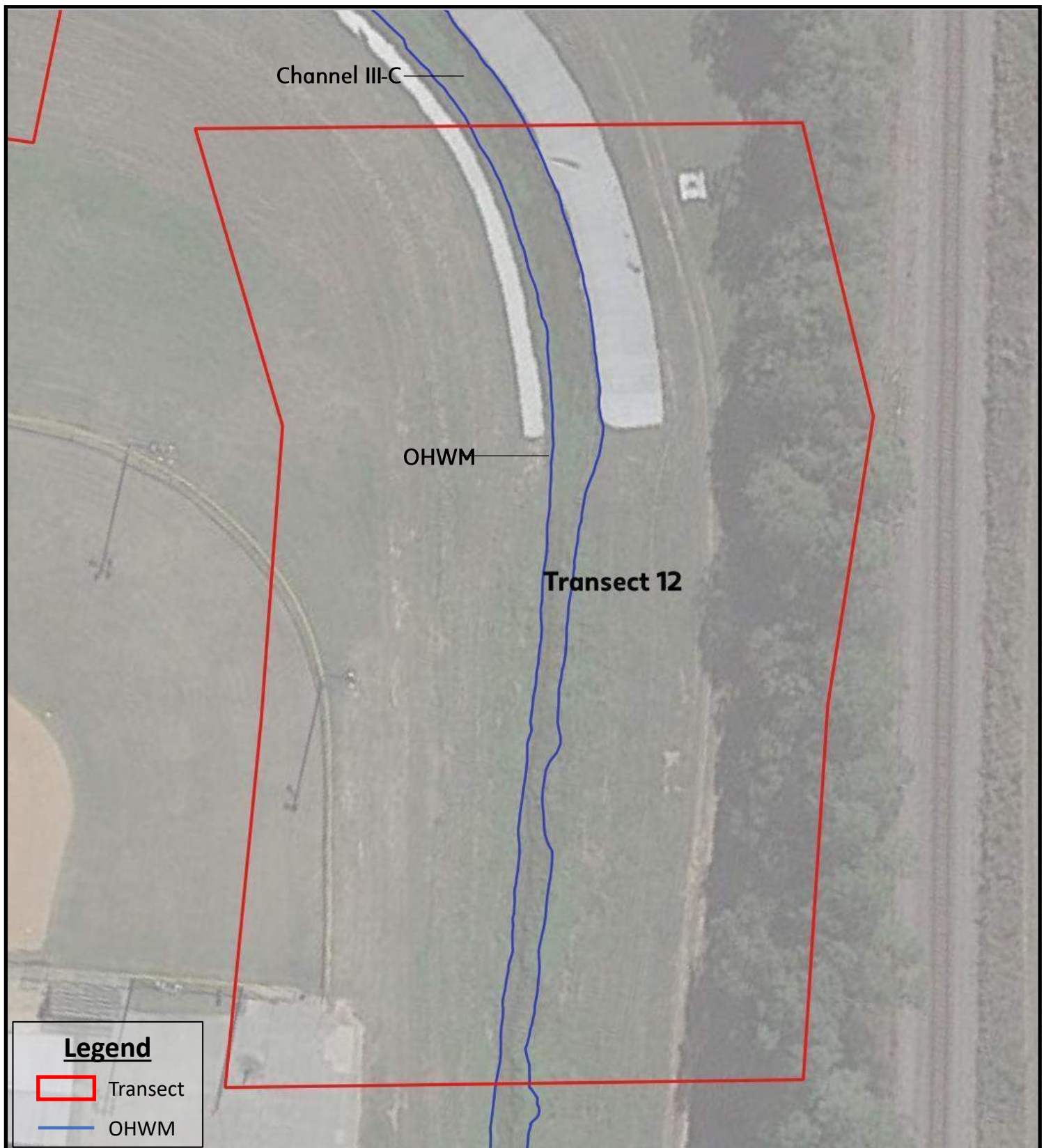


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

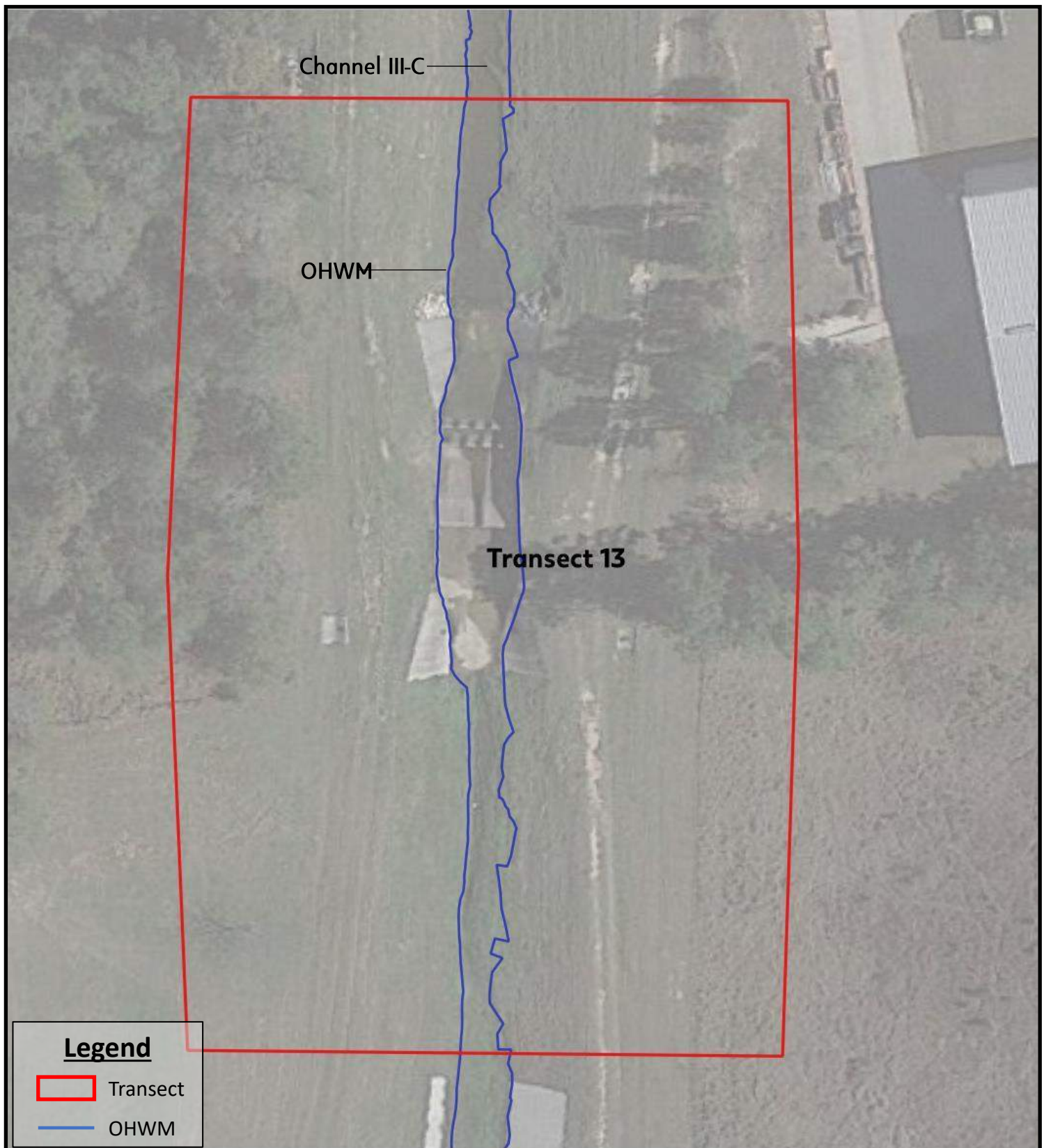
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Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

**Channel III Transects**  
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Image Date 12/1/2019

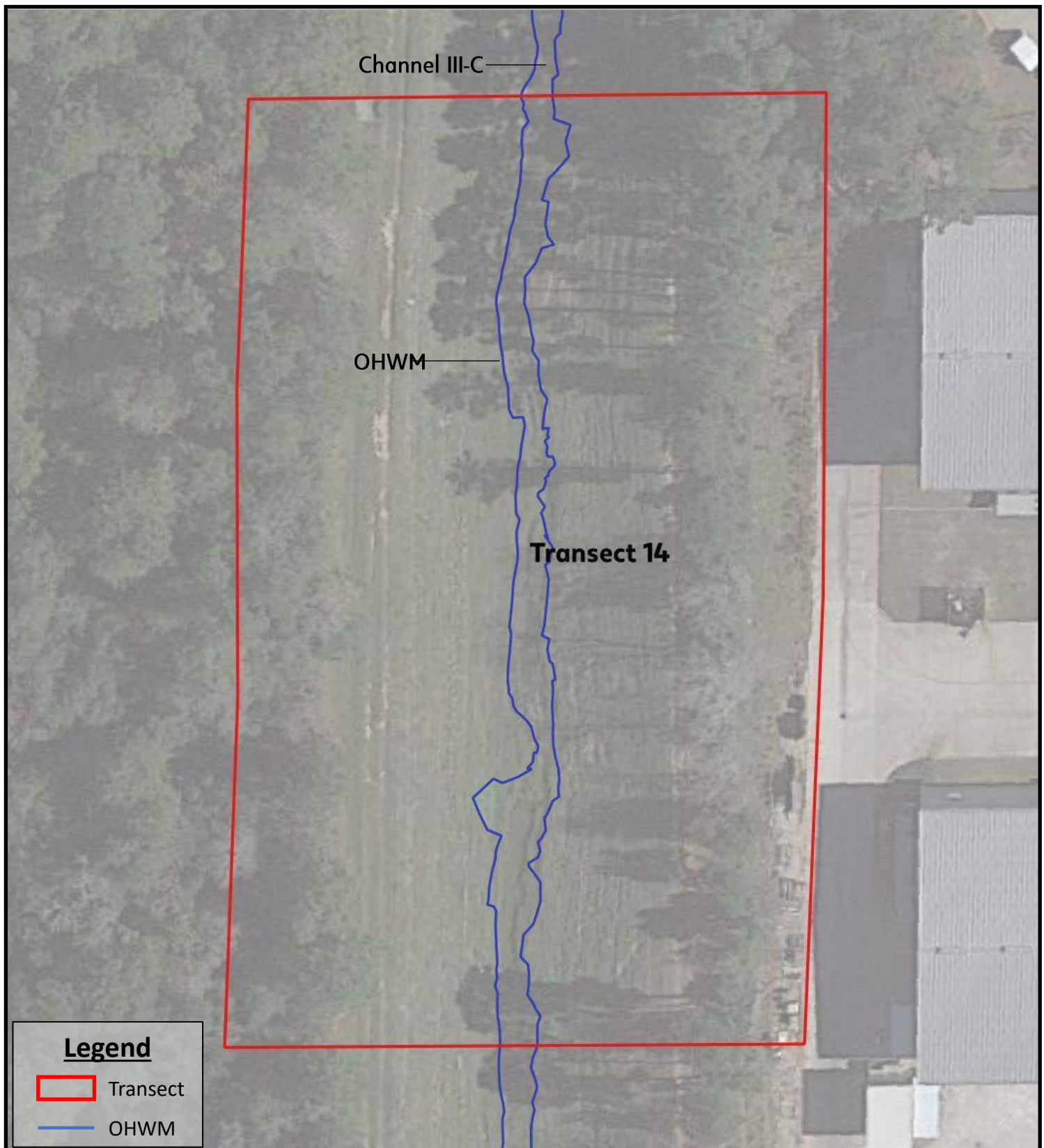


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

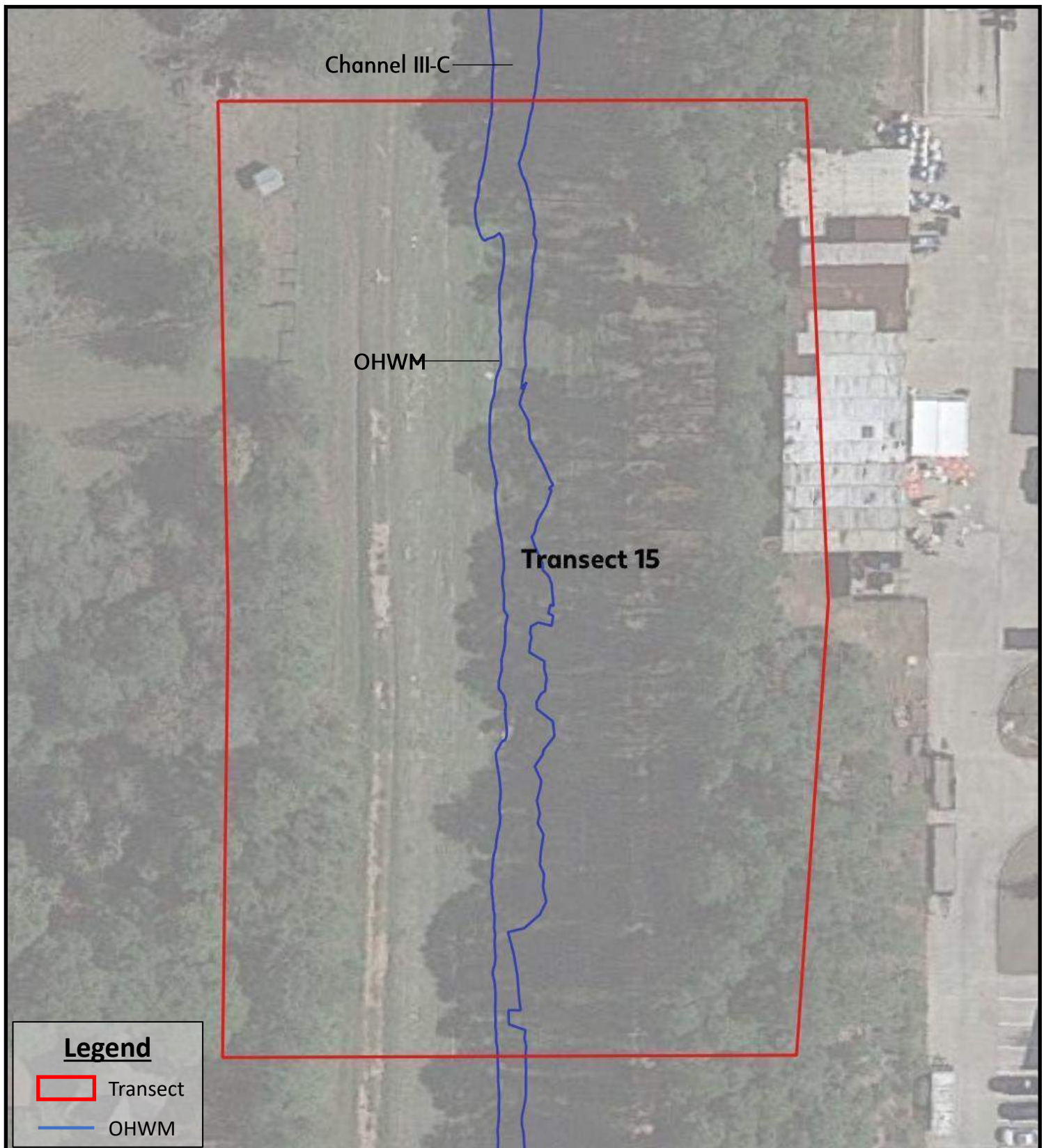
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Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

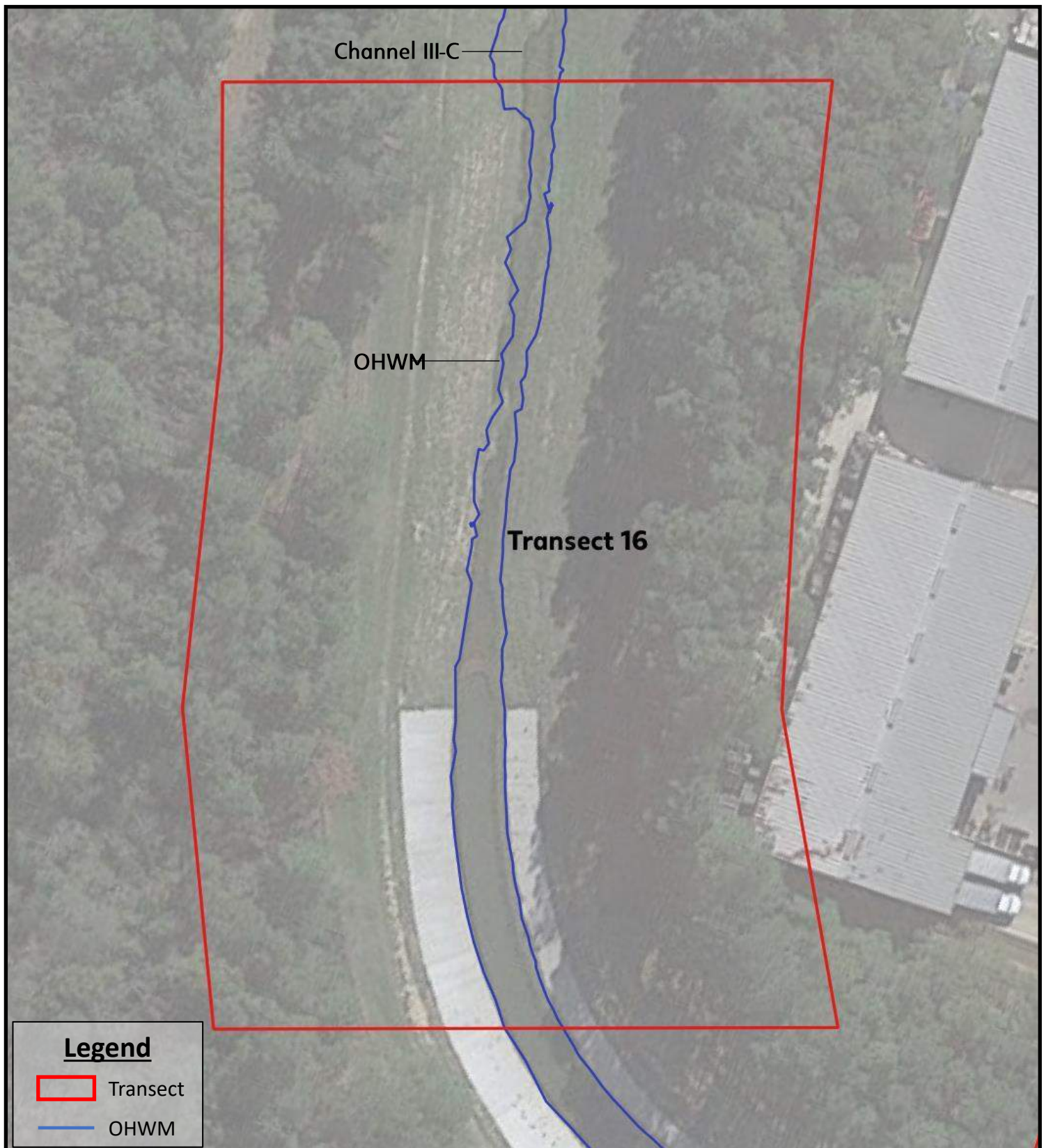


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Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

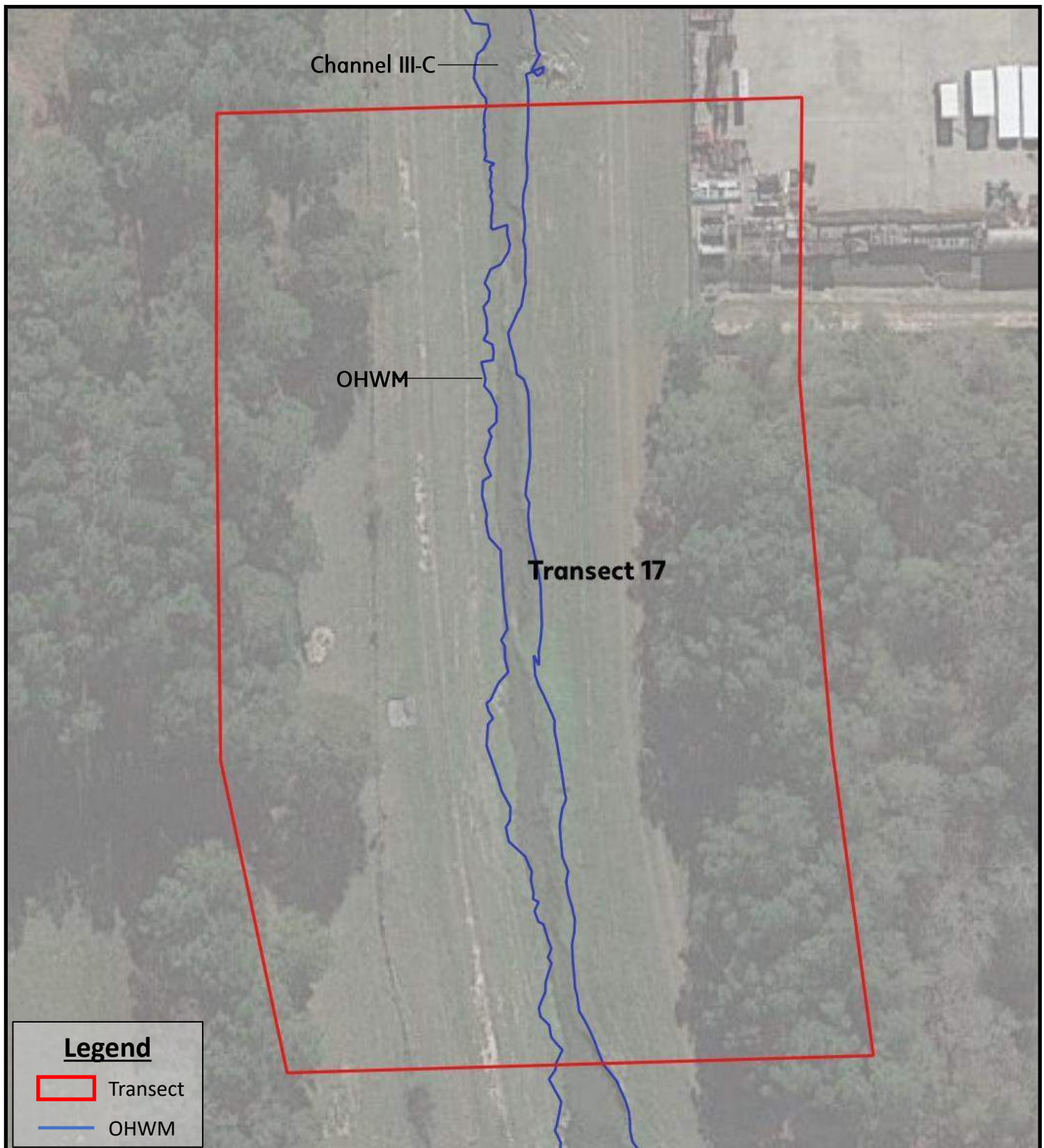
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Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

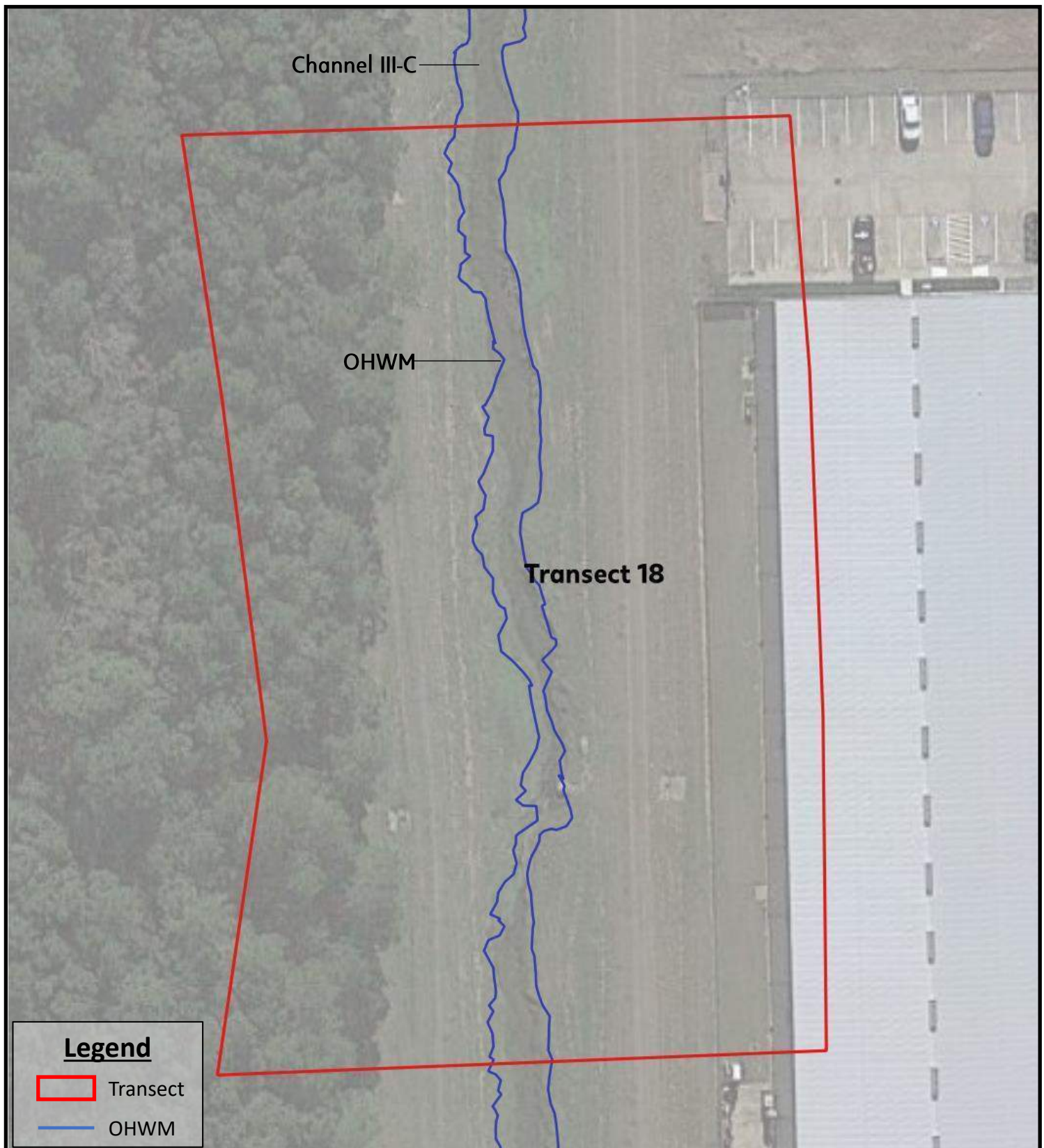


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Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

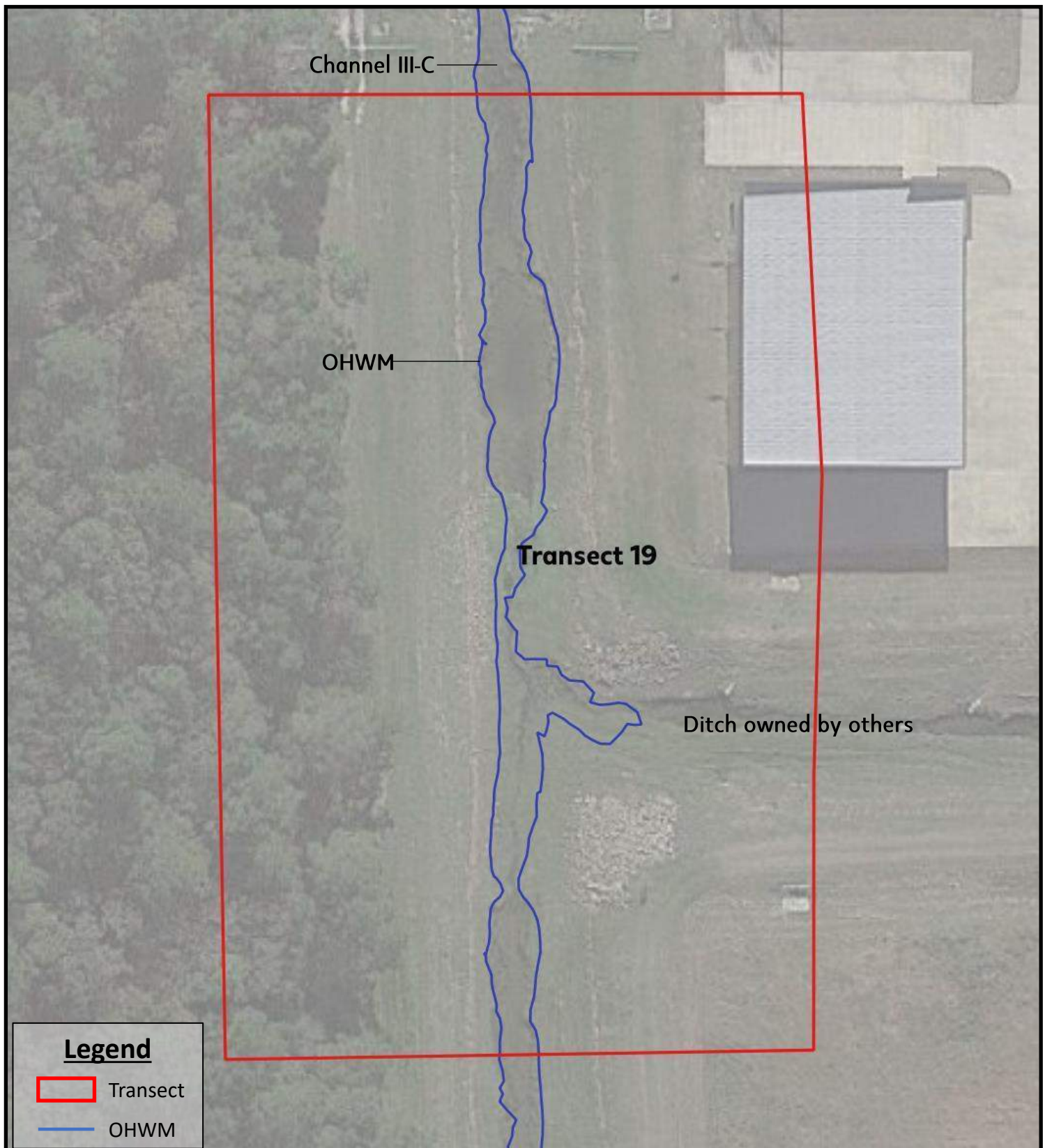
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Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



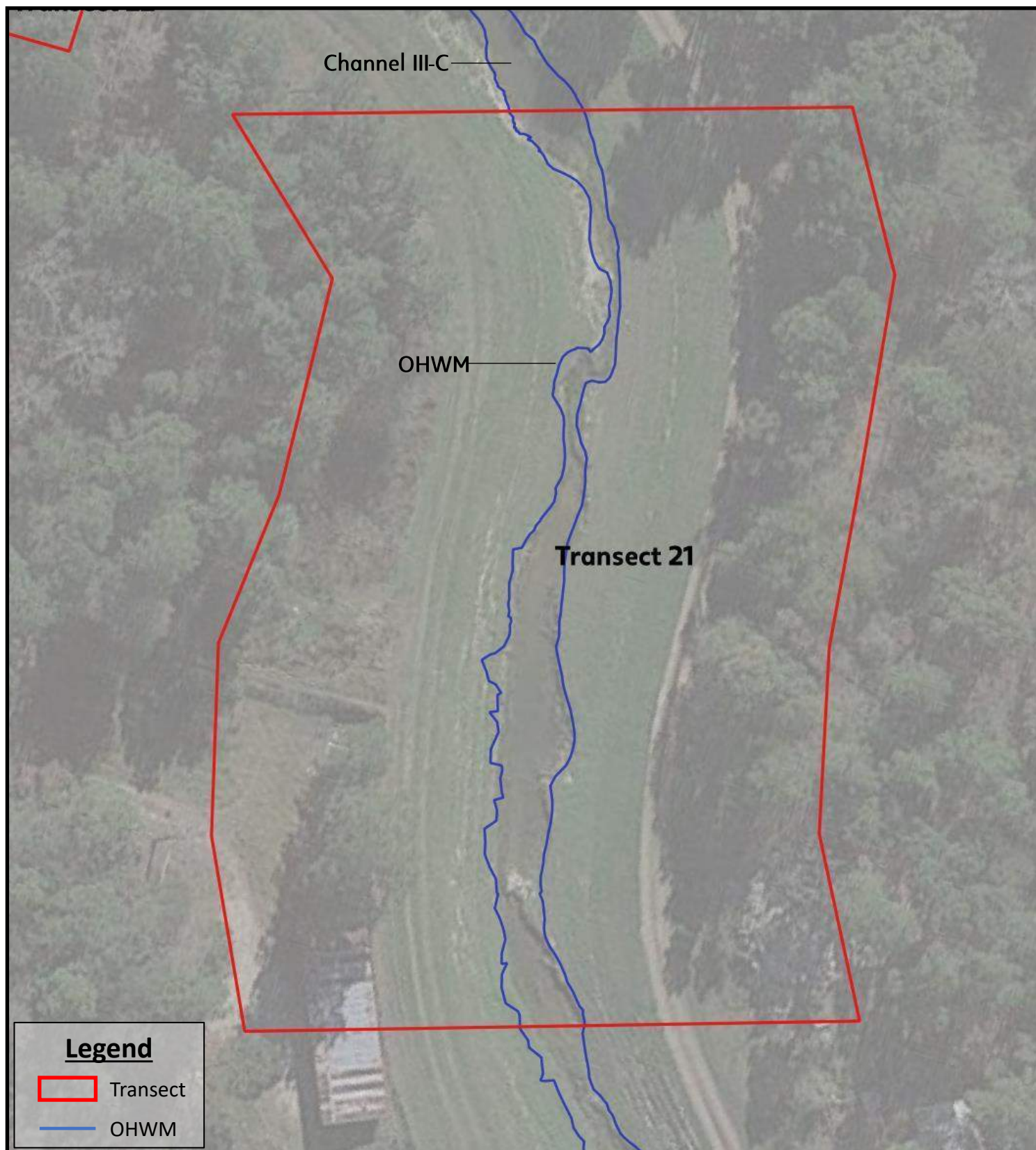
**WILD ASSOCIATES**  
Engineering & Environmental Consulting  
Houston, Texas



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

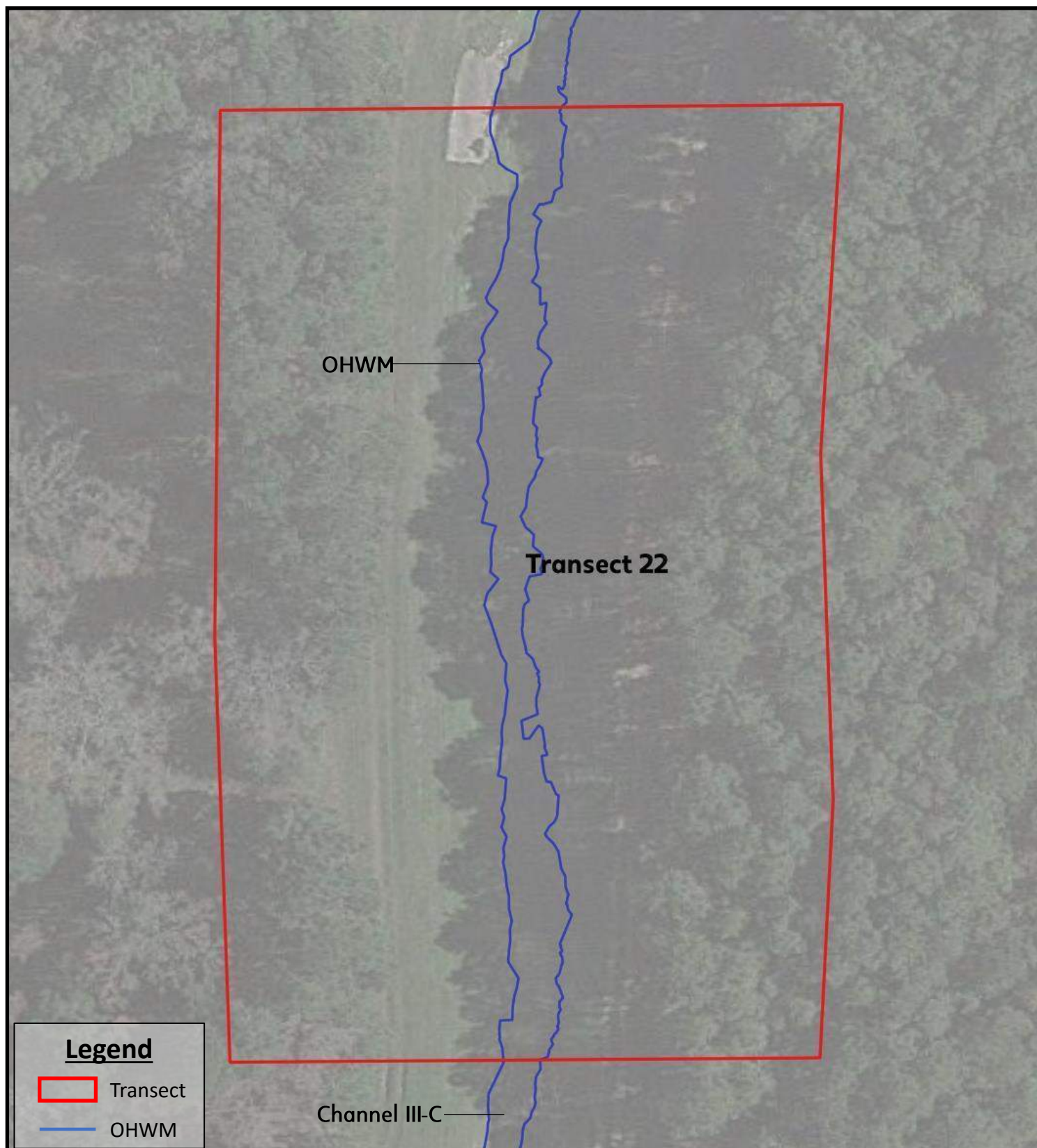


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

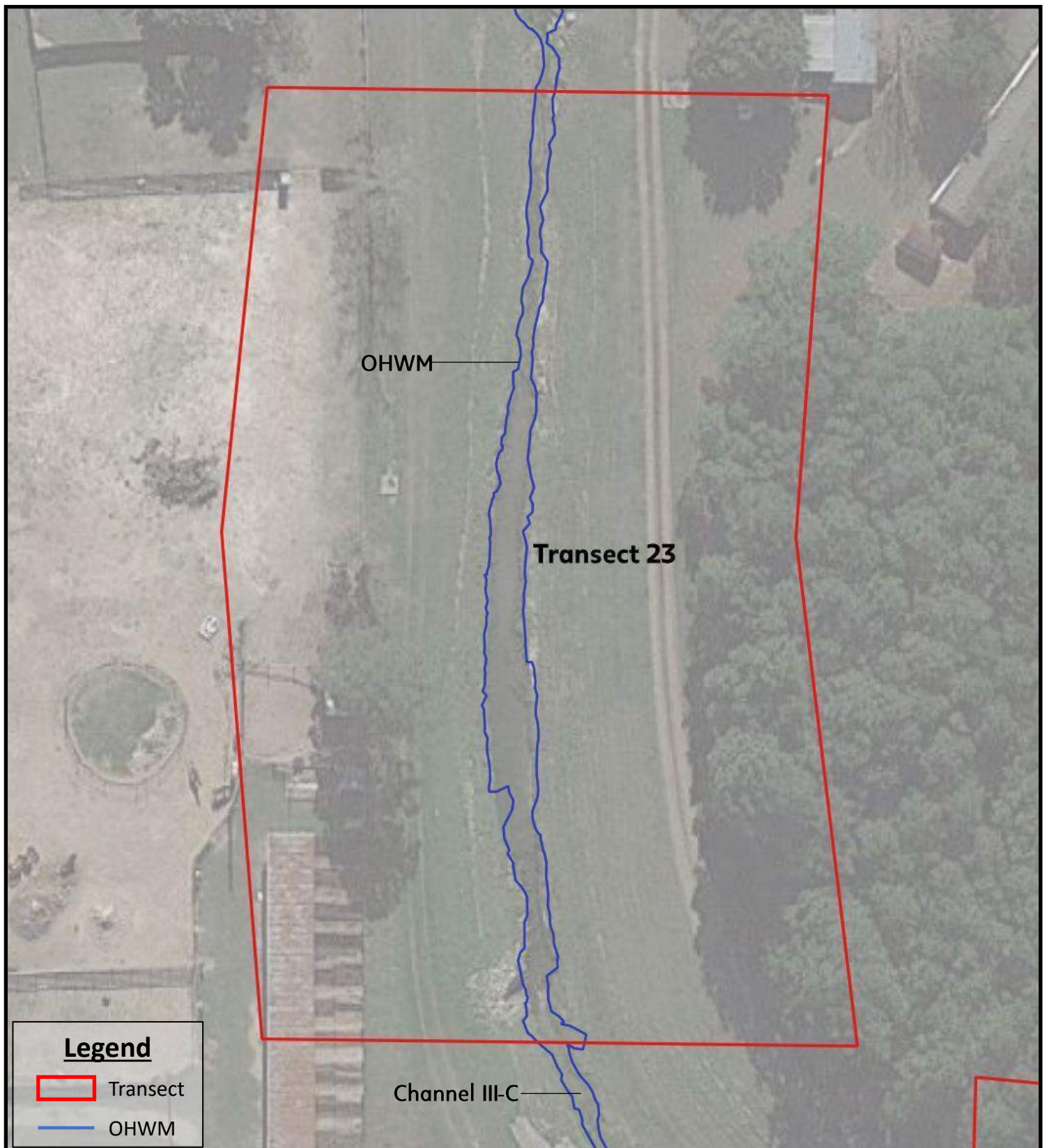
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Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

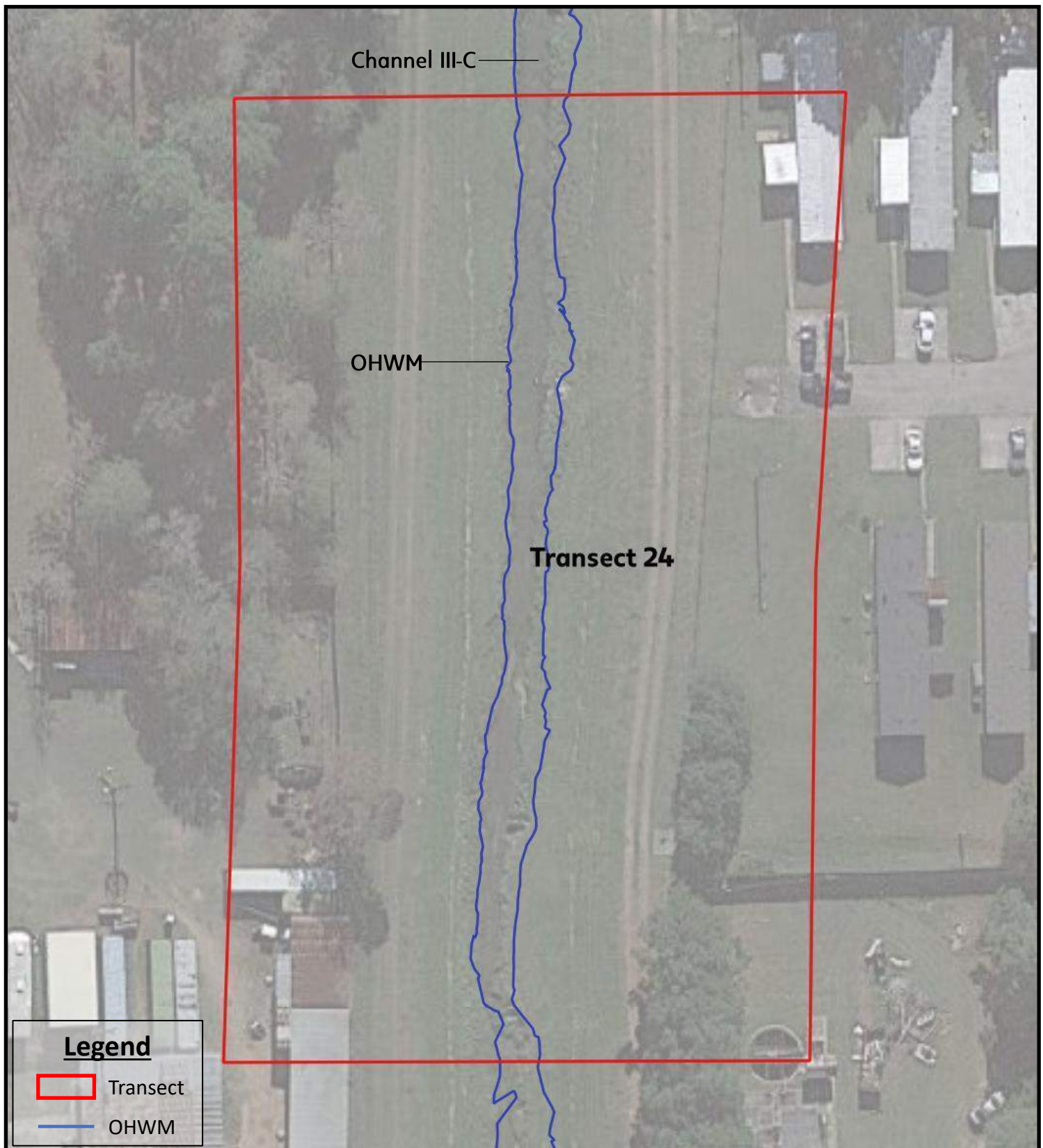


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

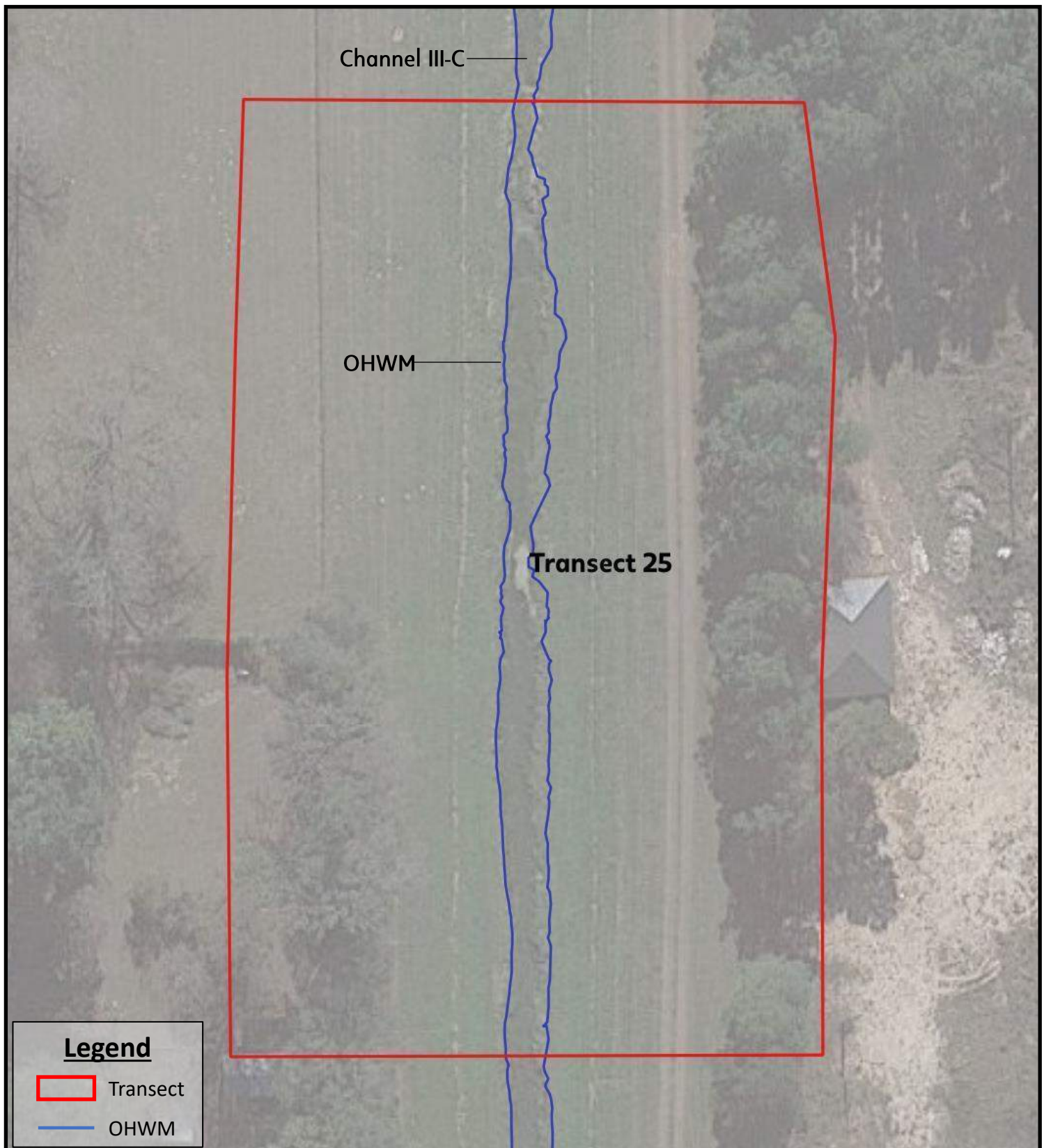
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Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

**Channel III Transects**  
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Image Date 12/1/2019

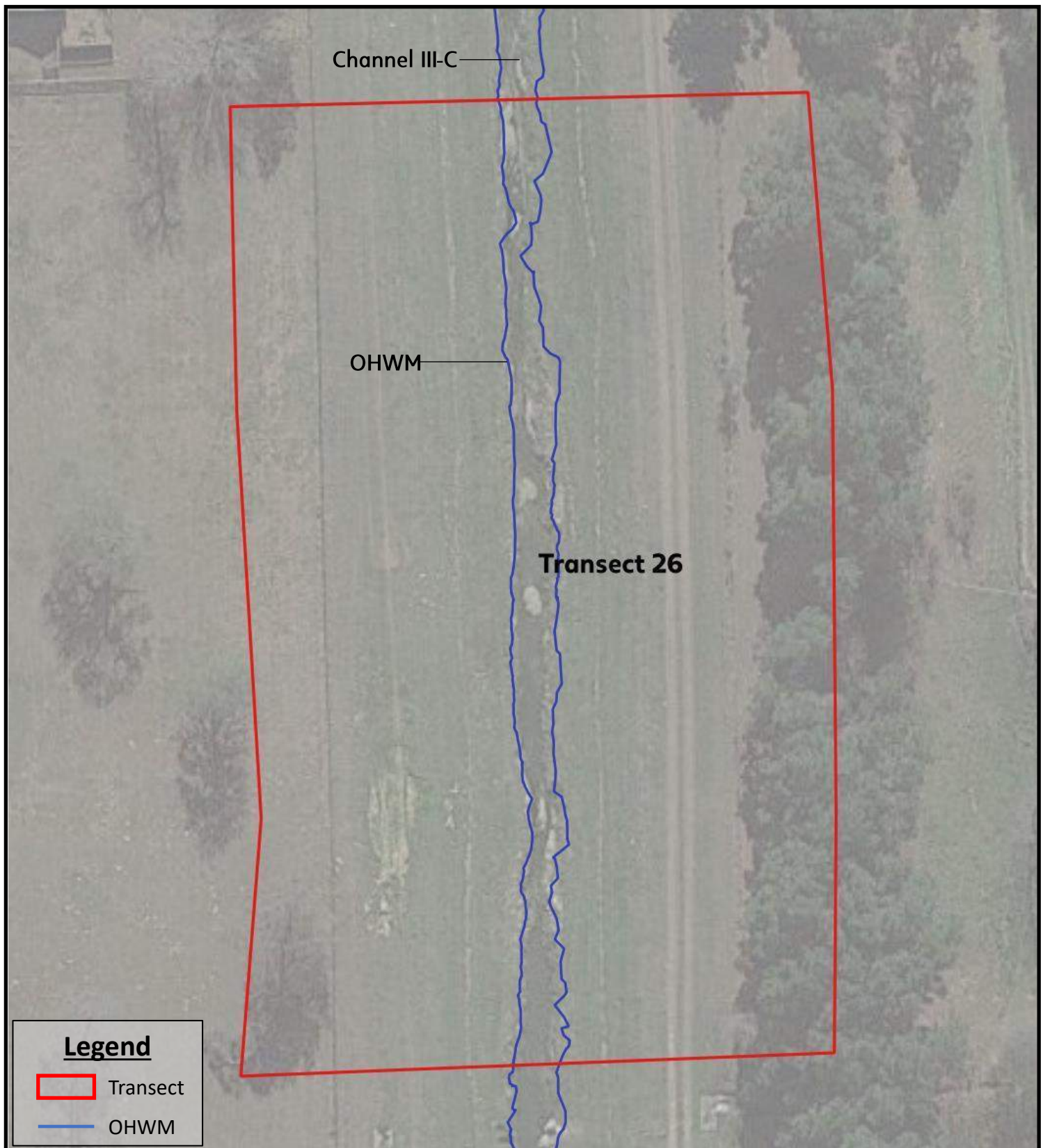


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

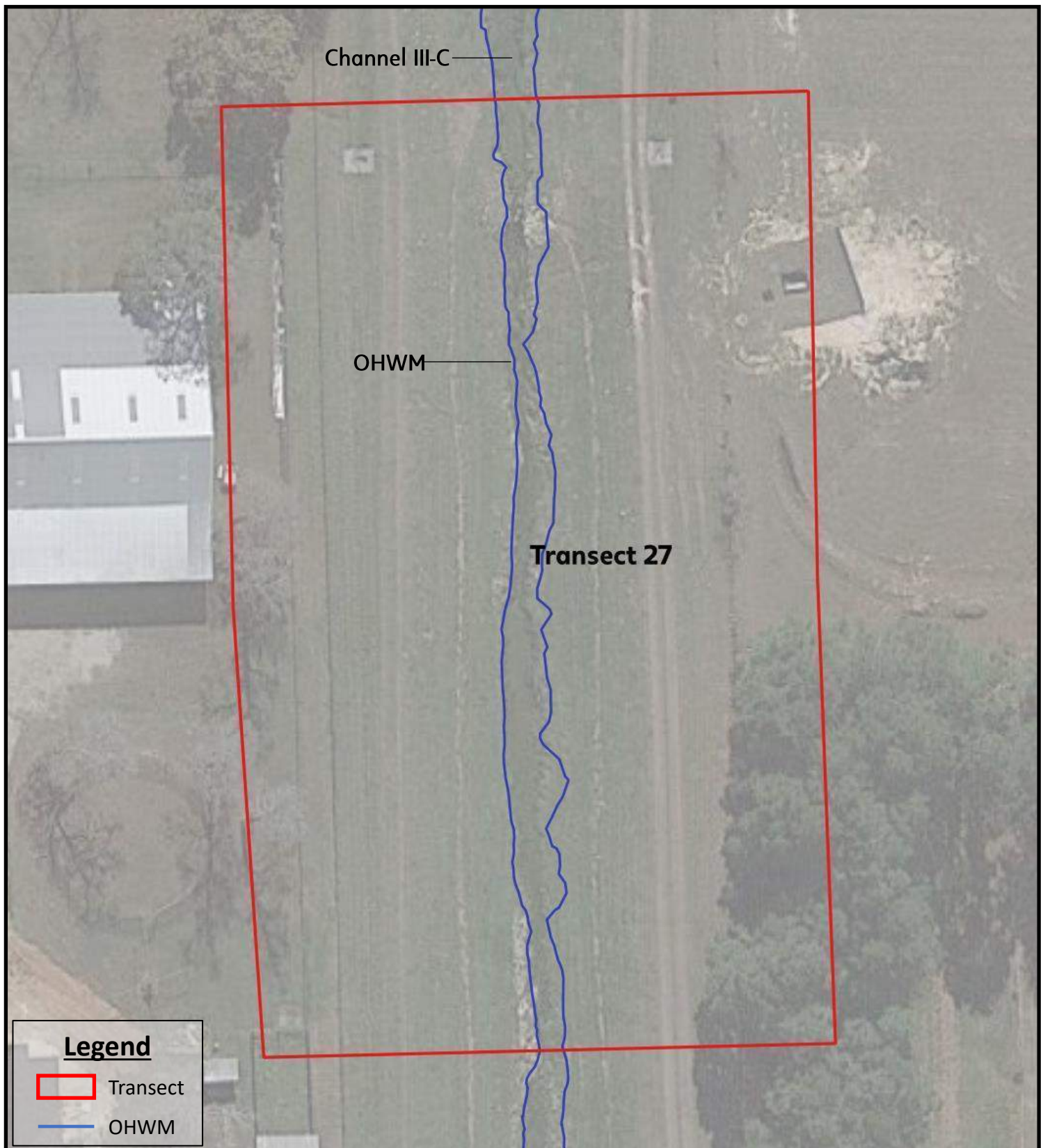
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Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

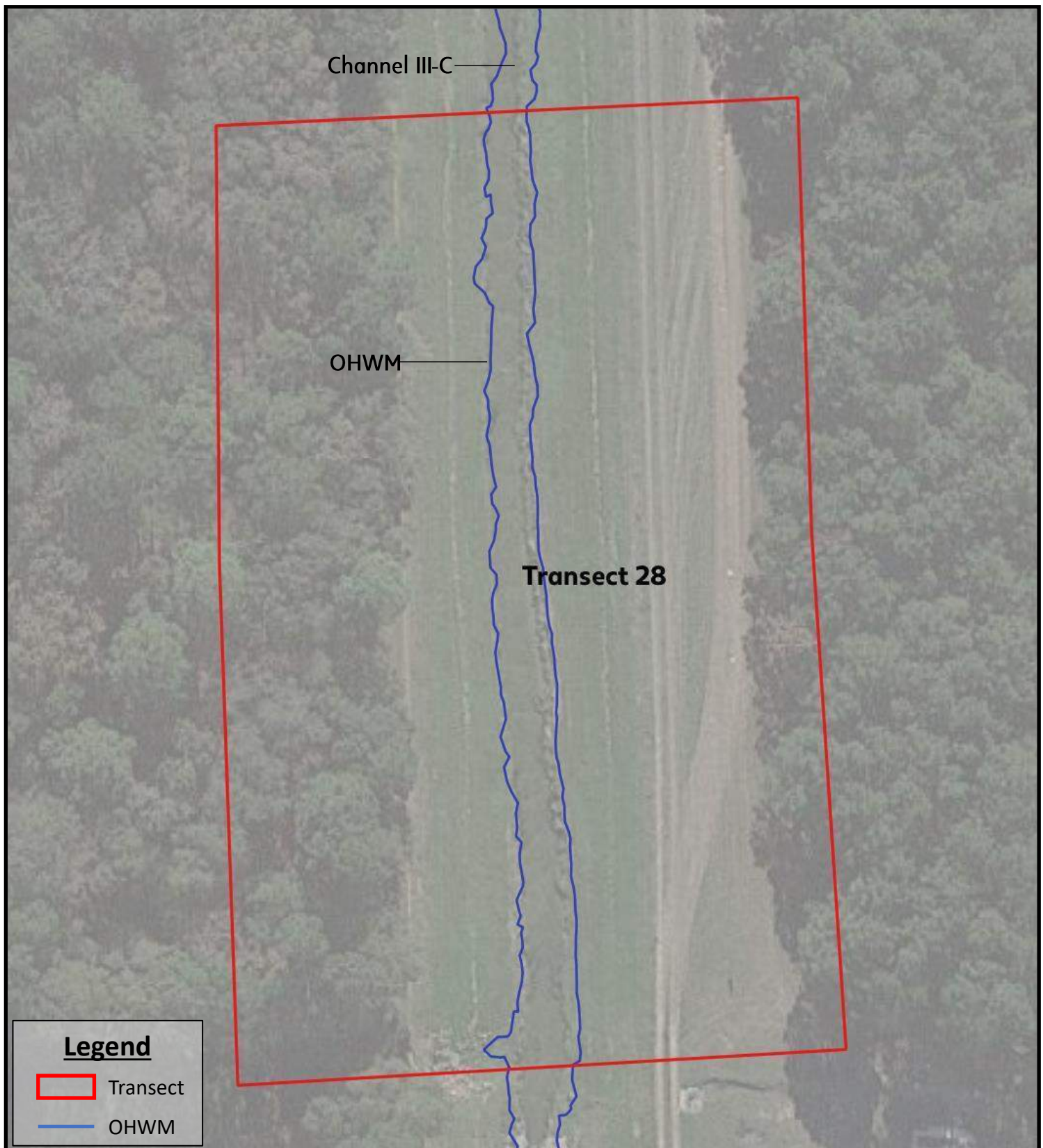


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

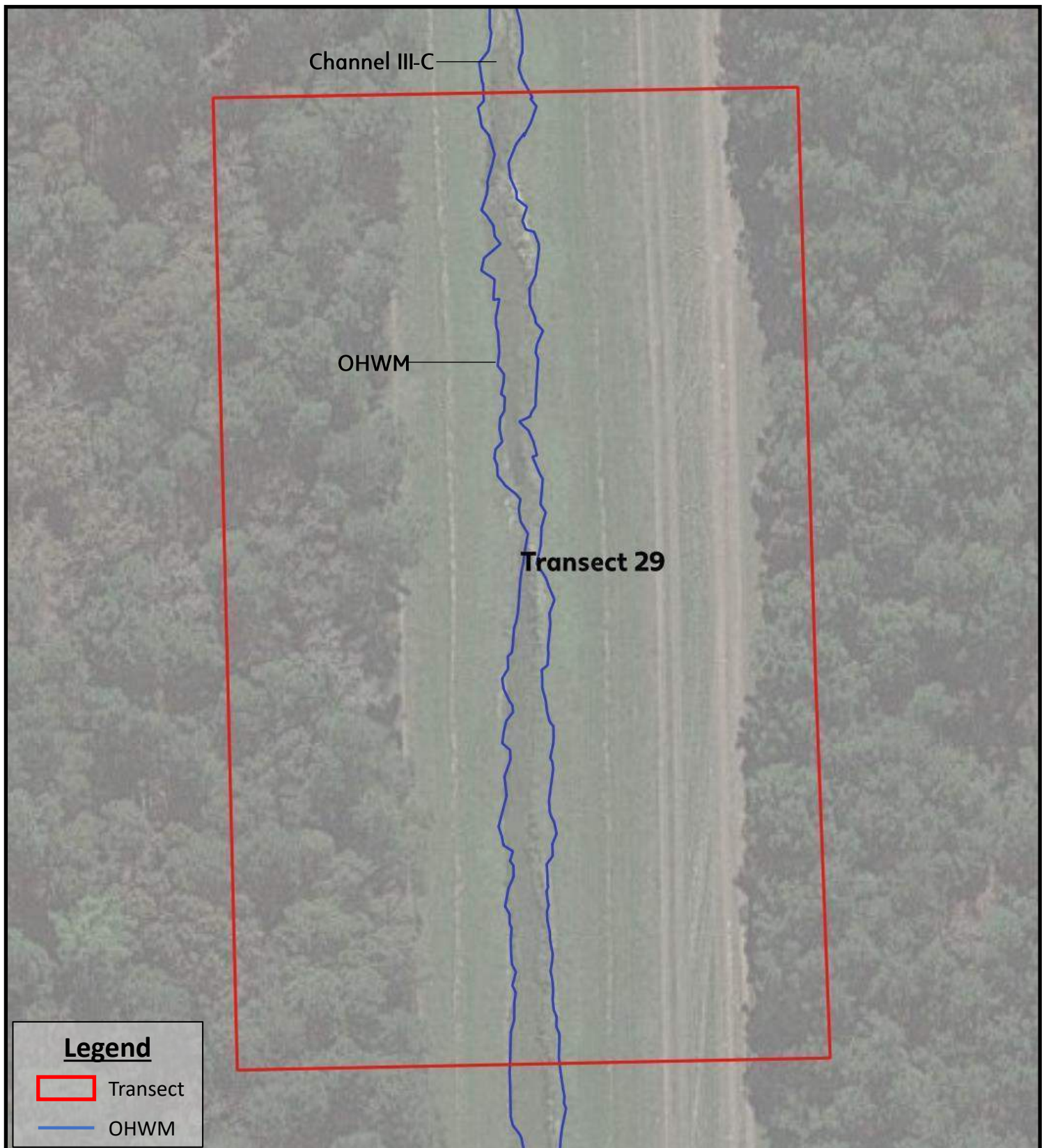
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Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

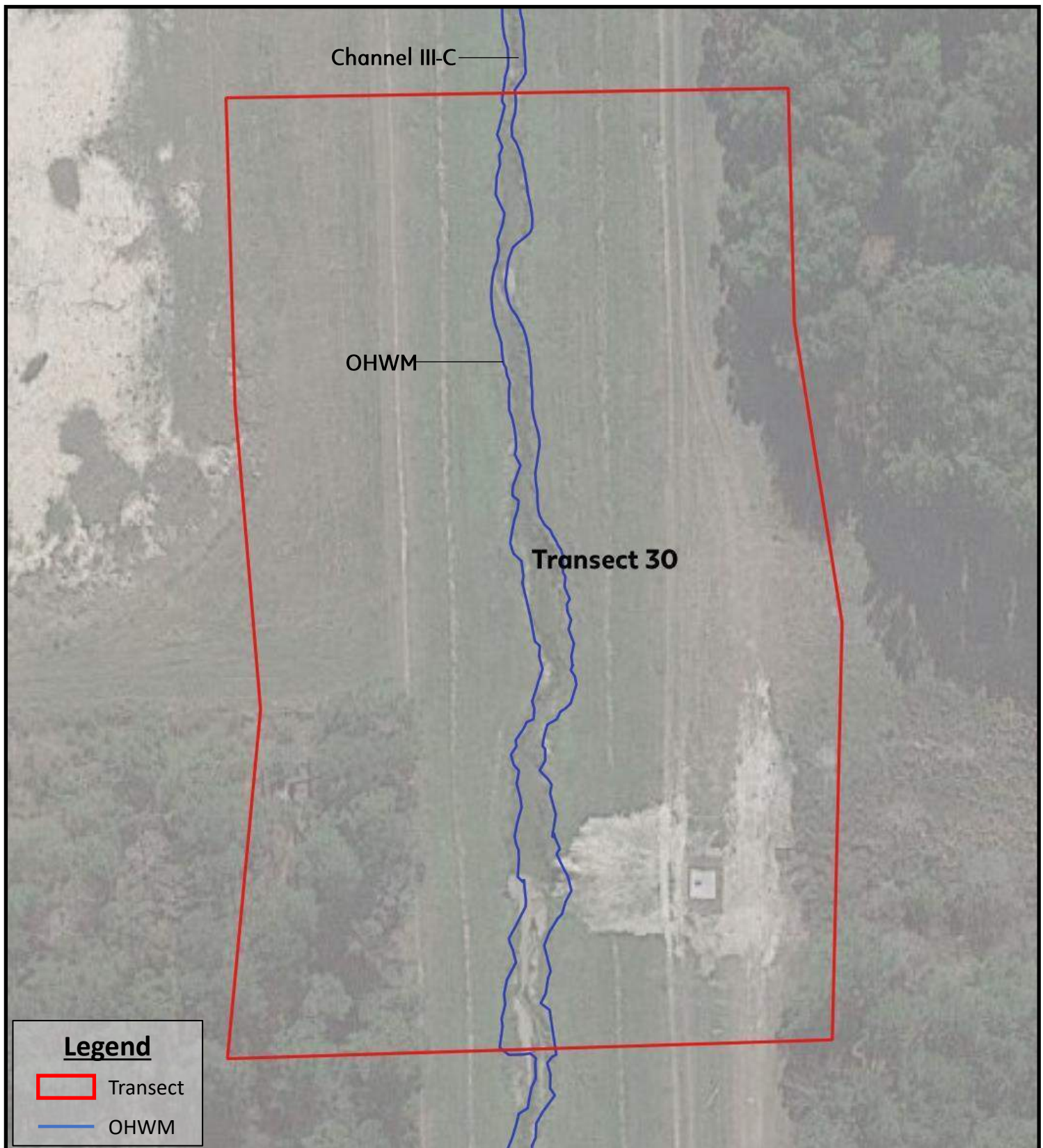


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Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

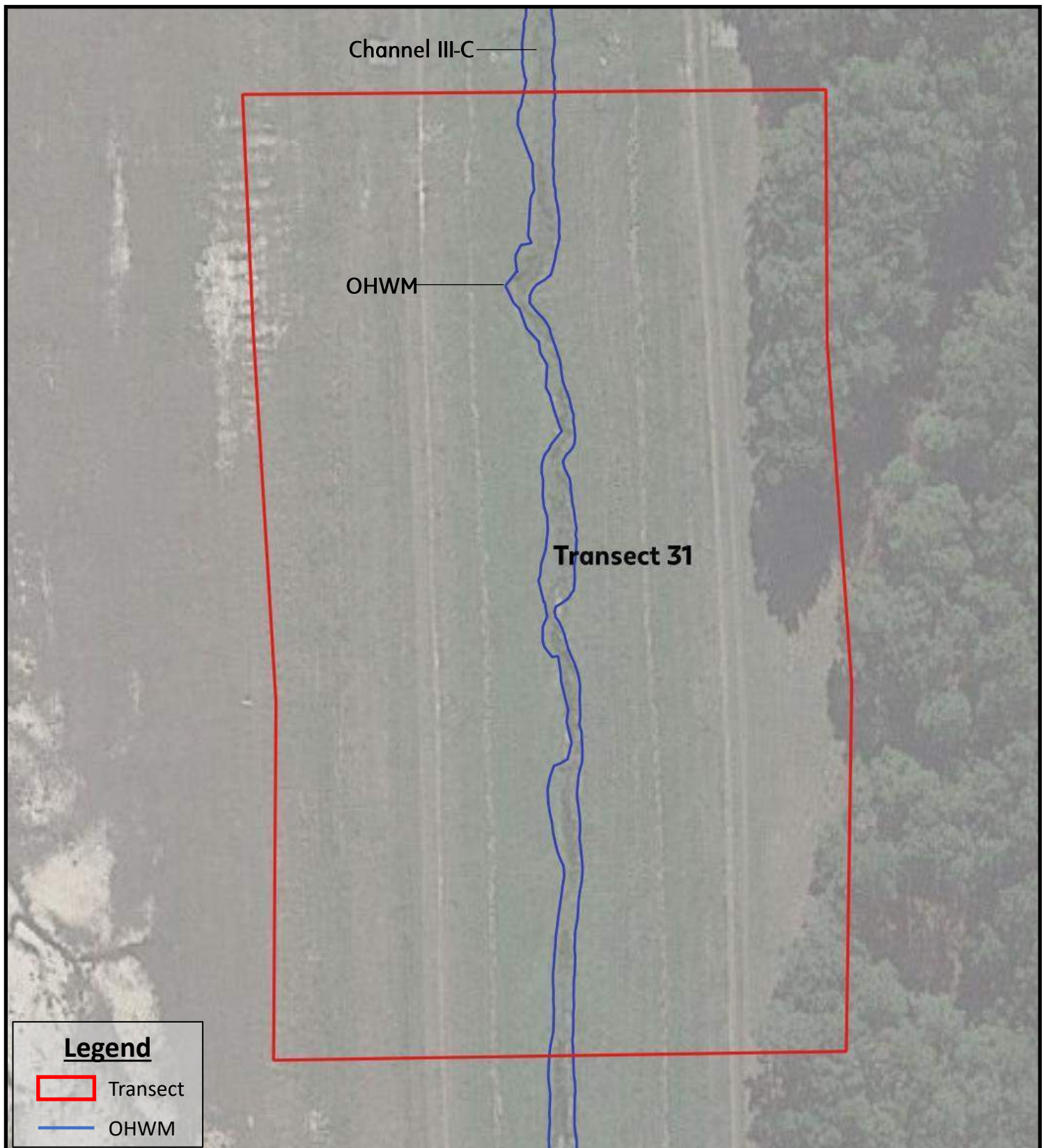
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Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

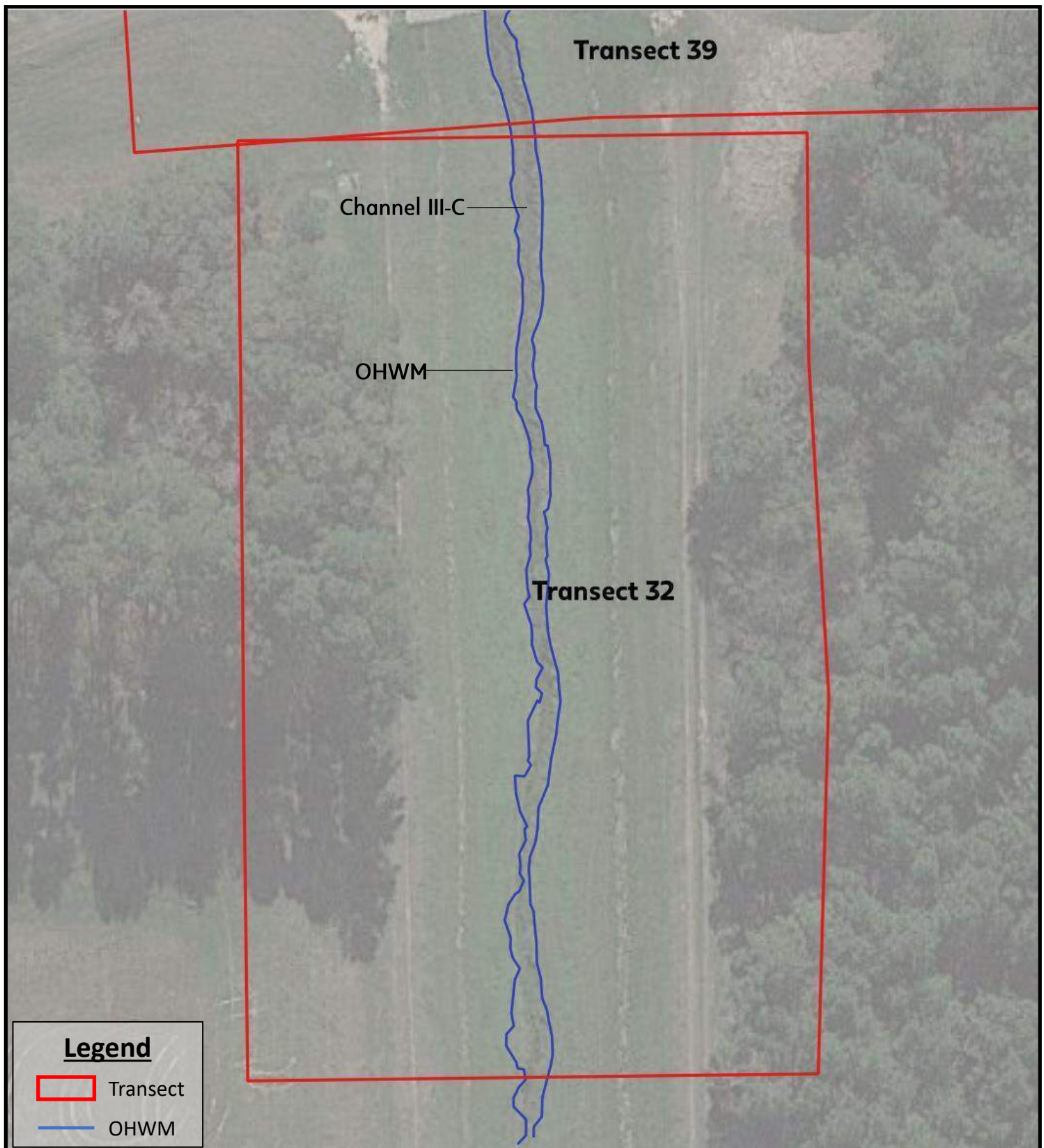


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Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-C  
Spring, Montgomery County, TX

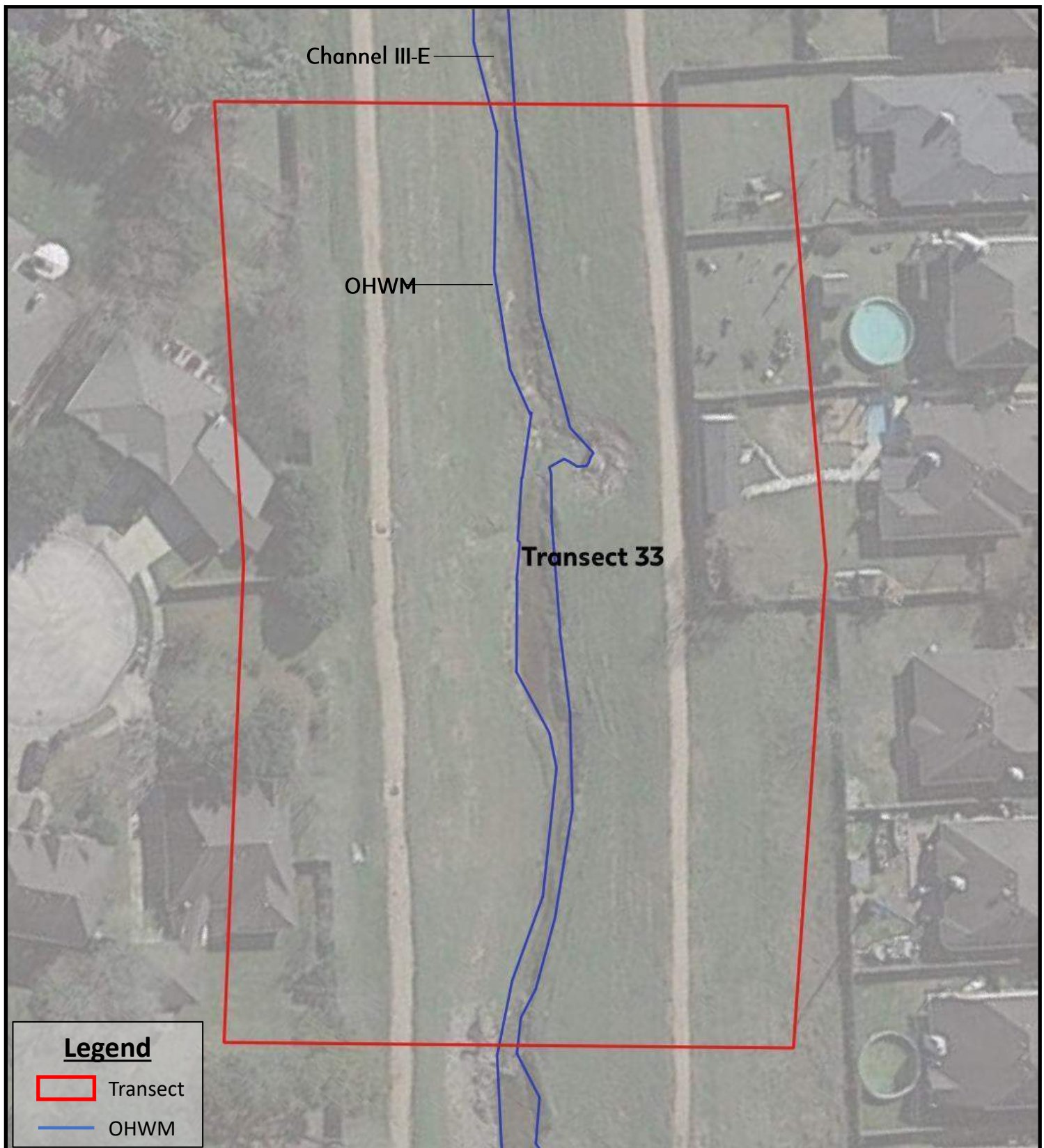
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Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-E  
Spring, Montgomery County, TX

**Channel III Transects**  
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Image Date 12/1/2019

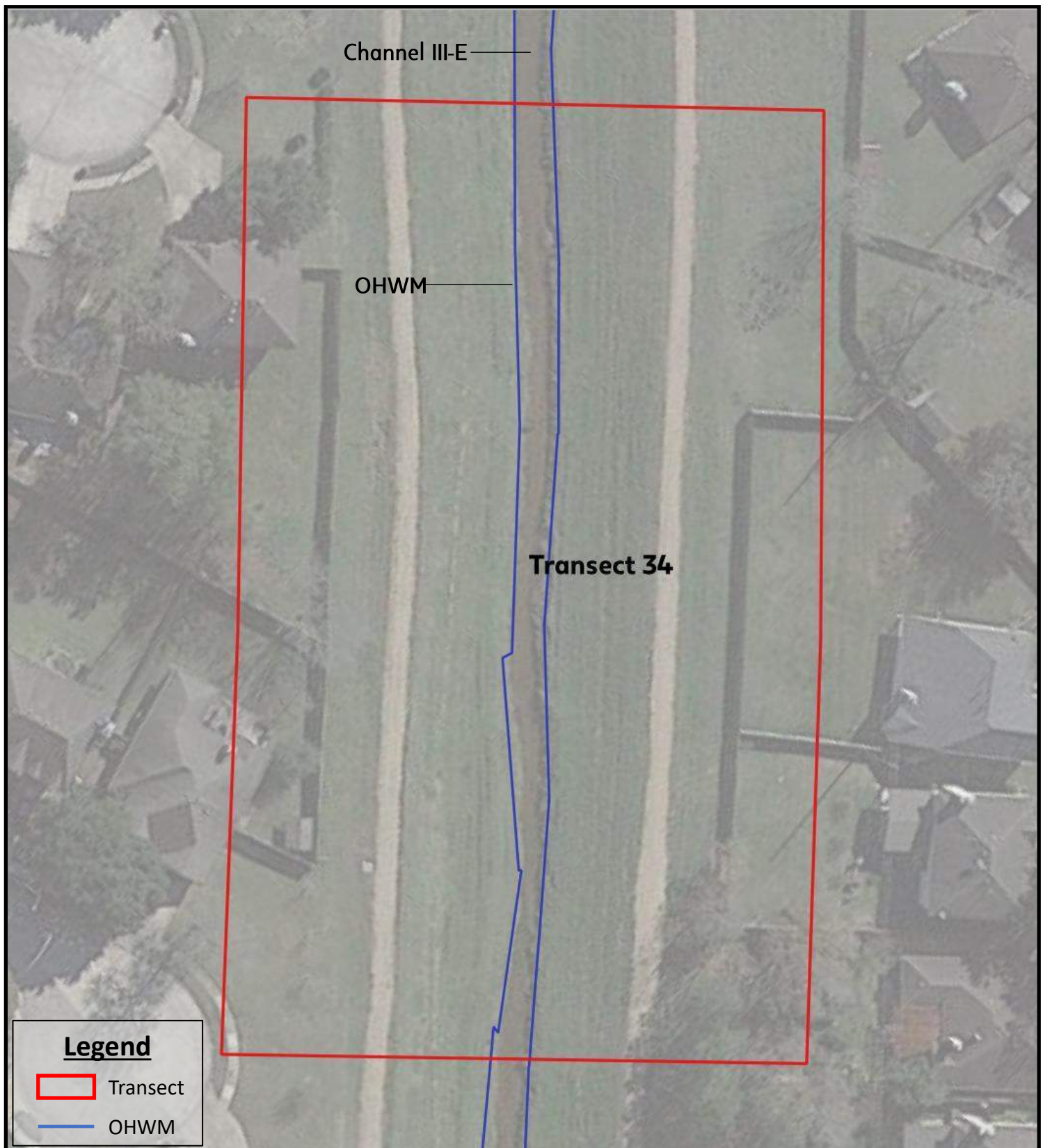


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Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-E  
Spring, Montgomery County, TX

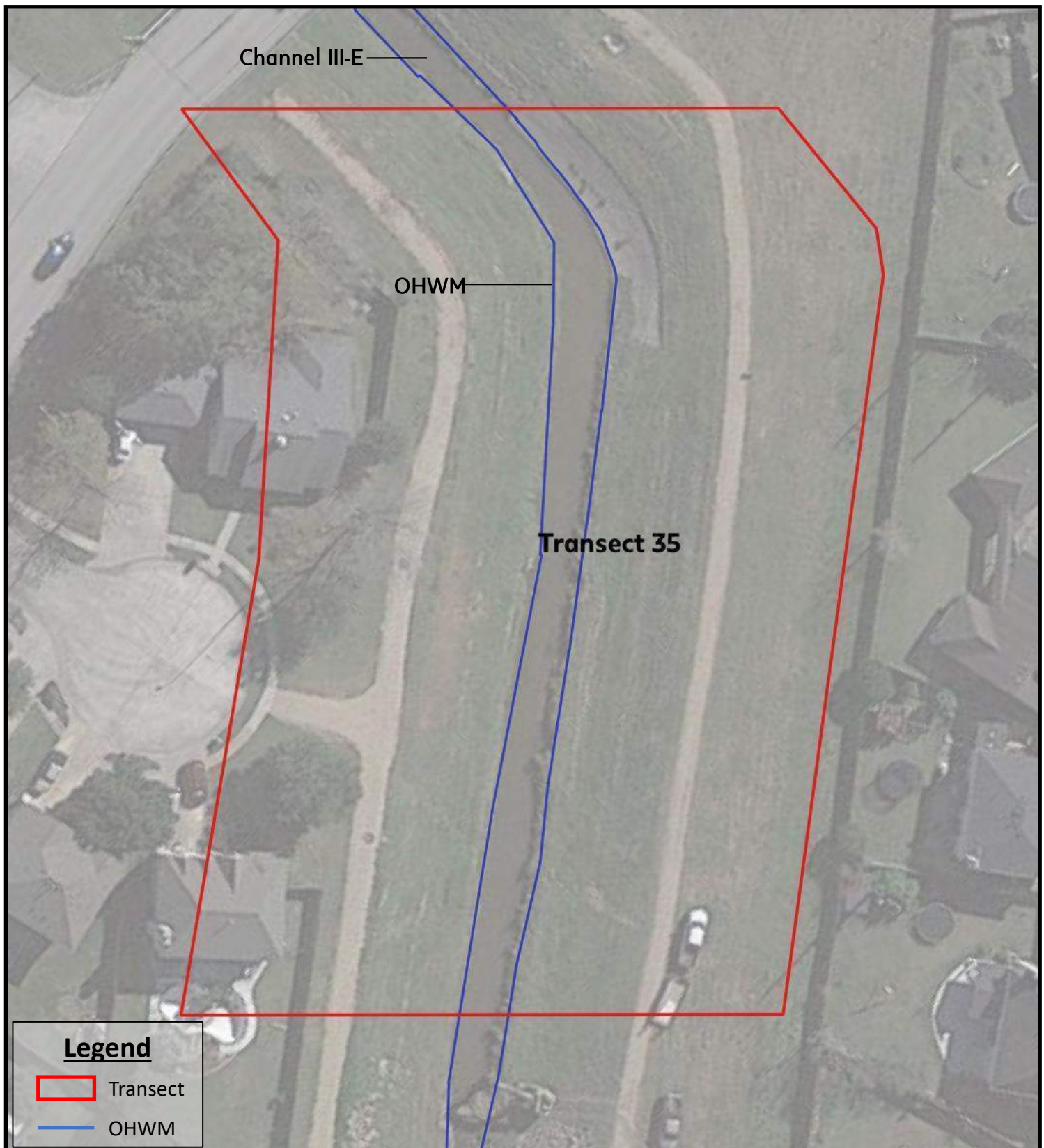
**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



Project:  
Stream Condition Assessment  
Channel III-E  
Spring, Montgomery County, TX

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Image Date 12/1/2019

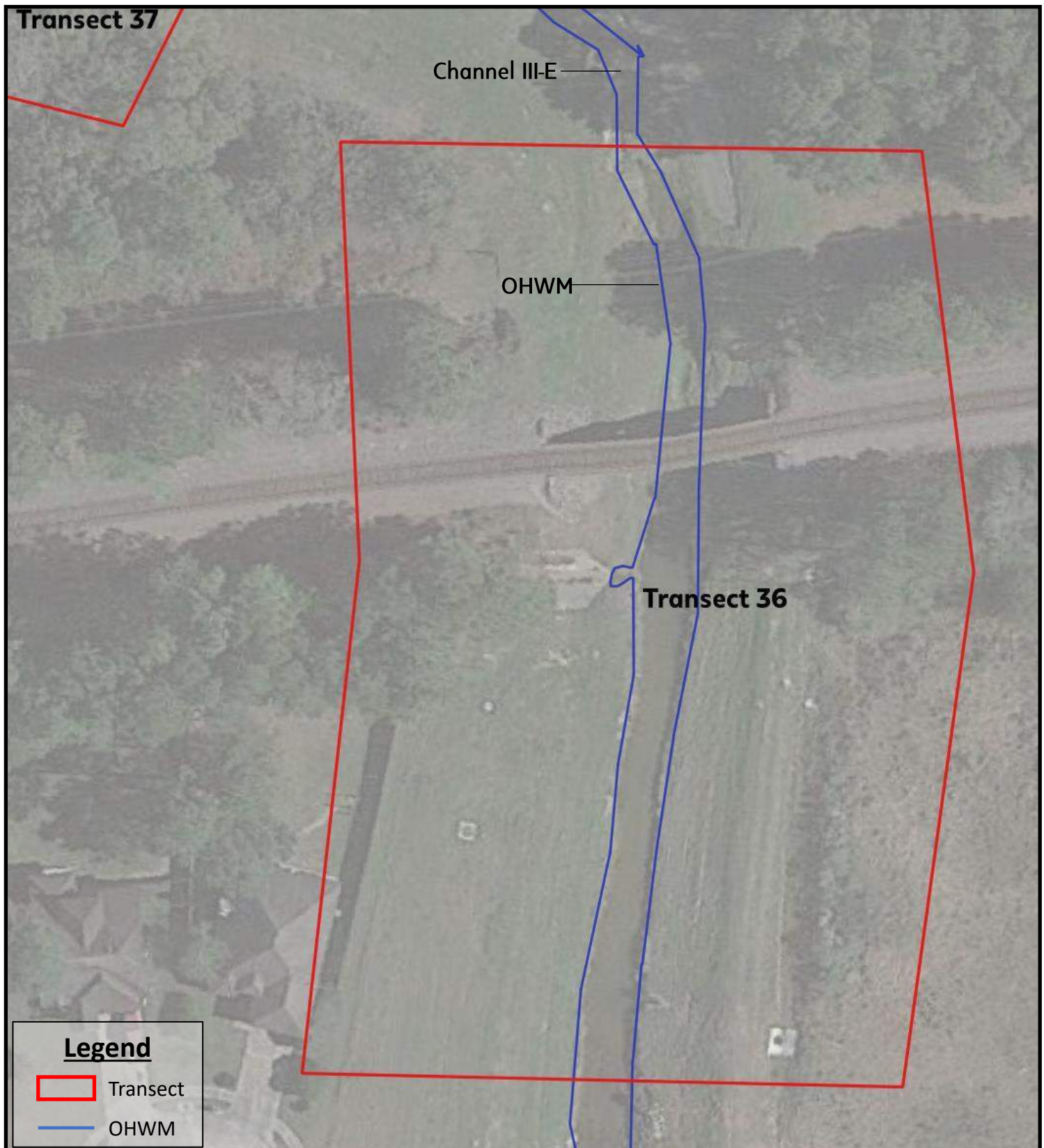


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Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-E  
Spring, Montgomery County, TX

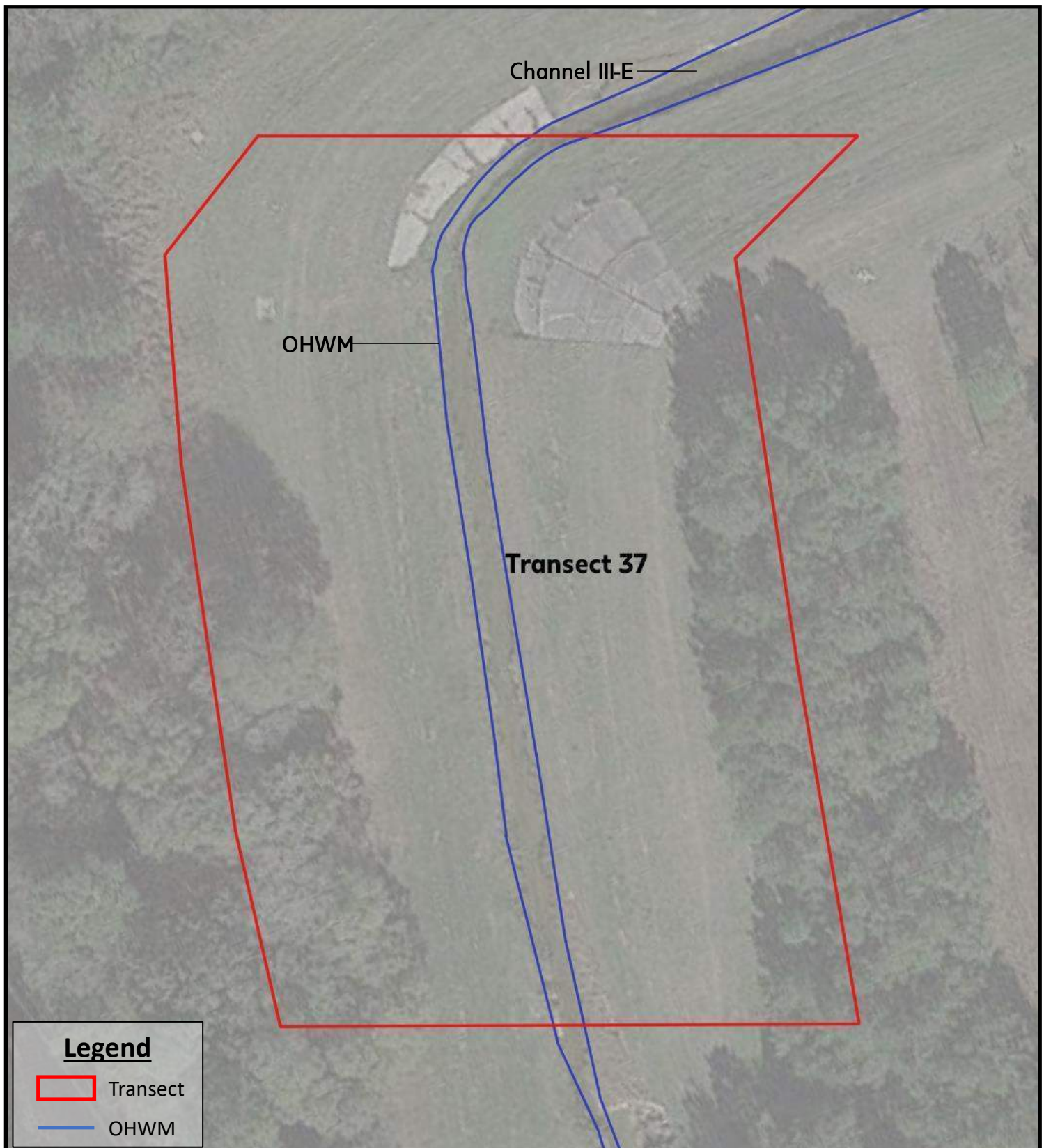
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Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-E  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-E  
Spring, Montgomery County, TX

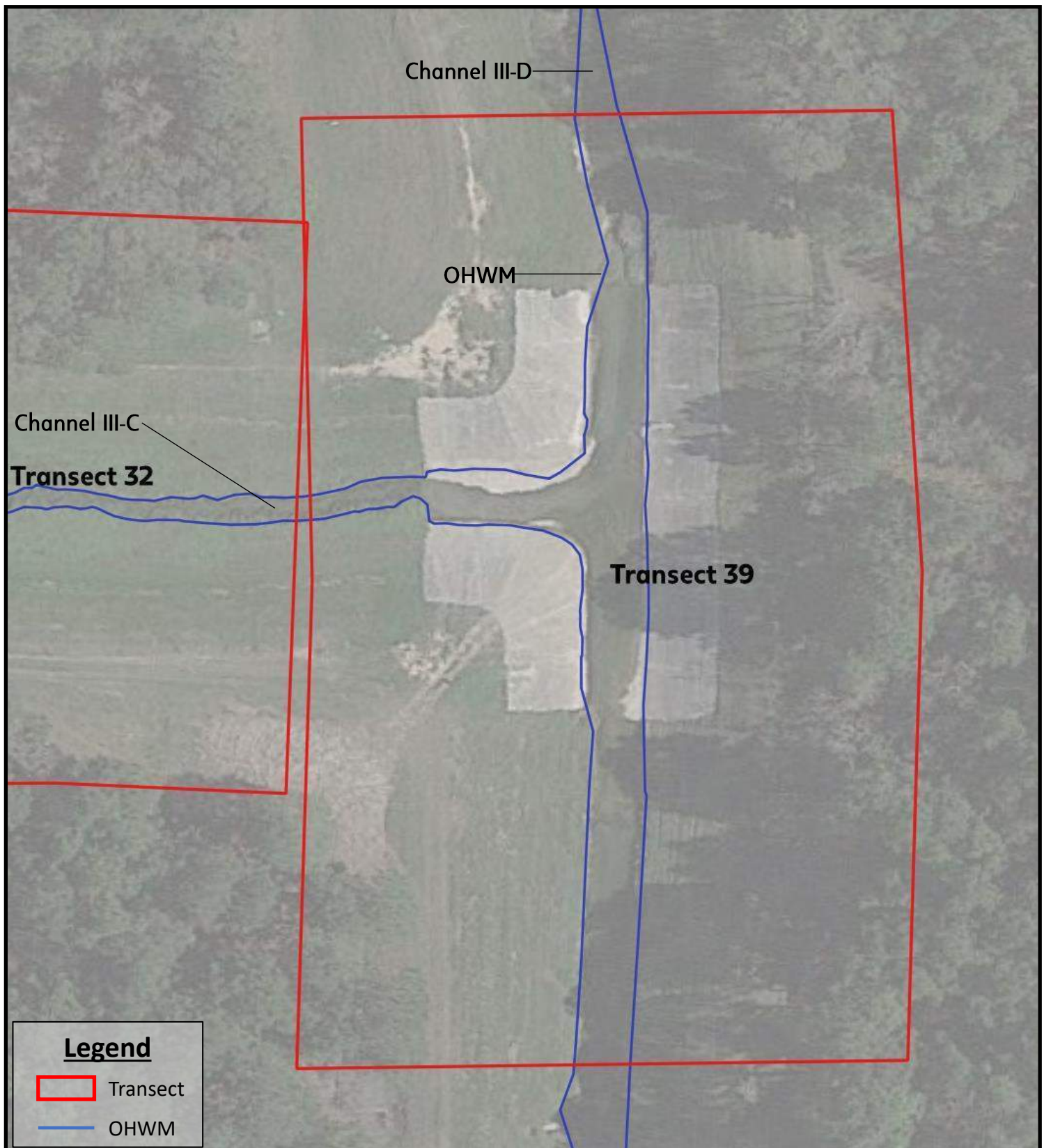
**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-D  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Channel III-D

OHWM

Transect 40

**Legend**

-  Transect
-  OHWM

Project:  
Stream Condition Assessment  
Channel III-D  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



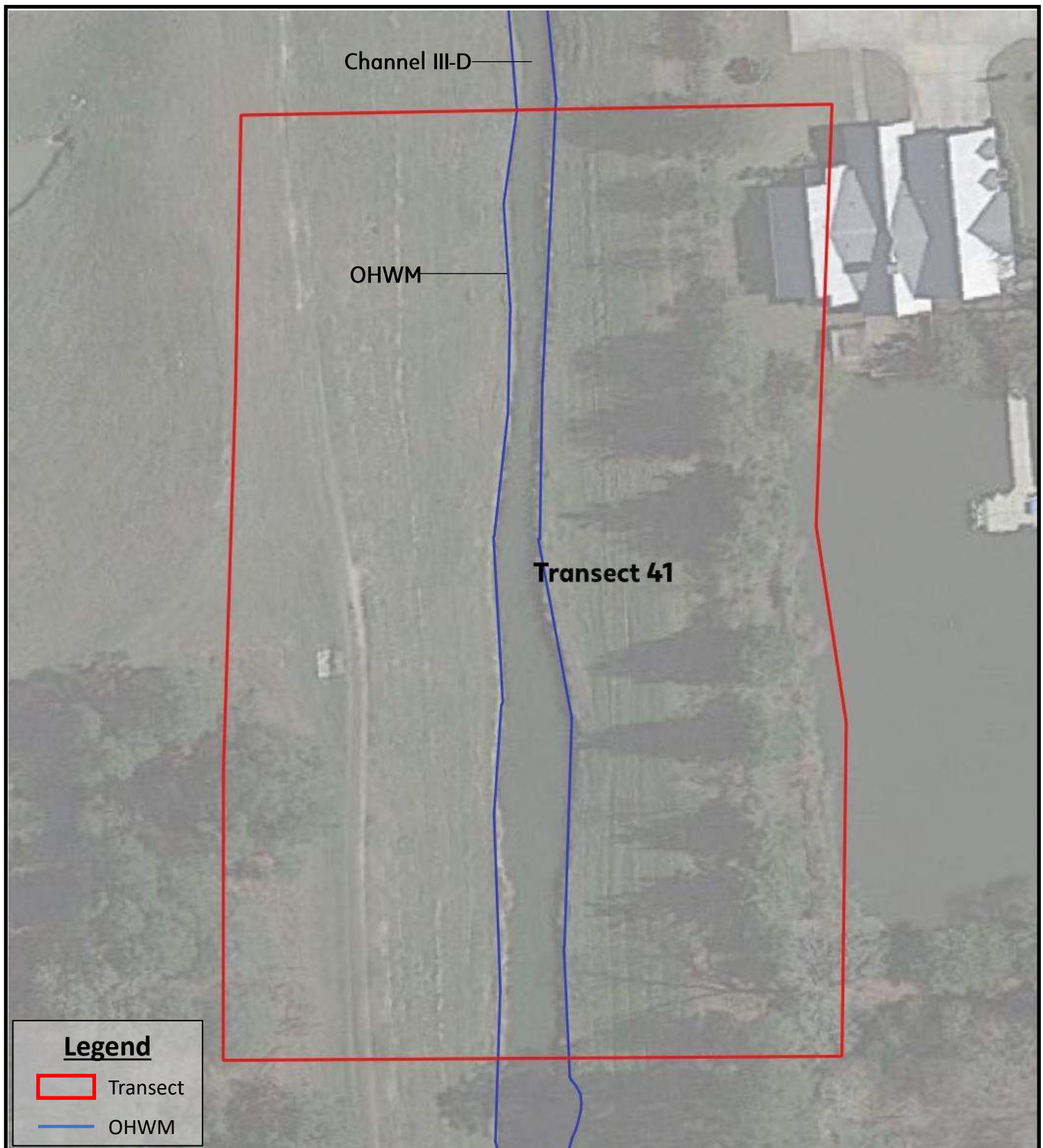
**WILD ASSOCIATES**  
Engineering & Environmental Consulting  
Houston, Texas



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-D  
Spring, Montgomery County, TX

**Channel III Transects**  
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Image Date 12/1/2019

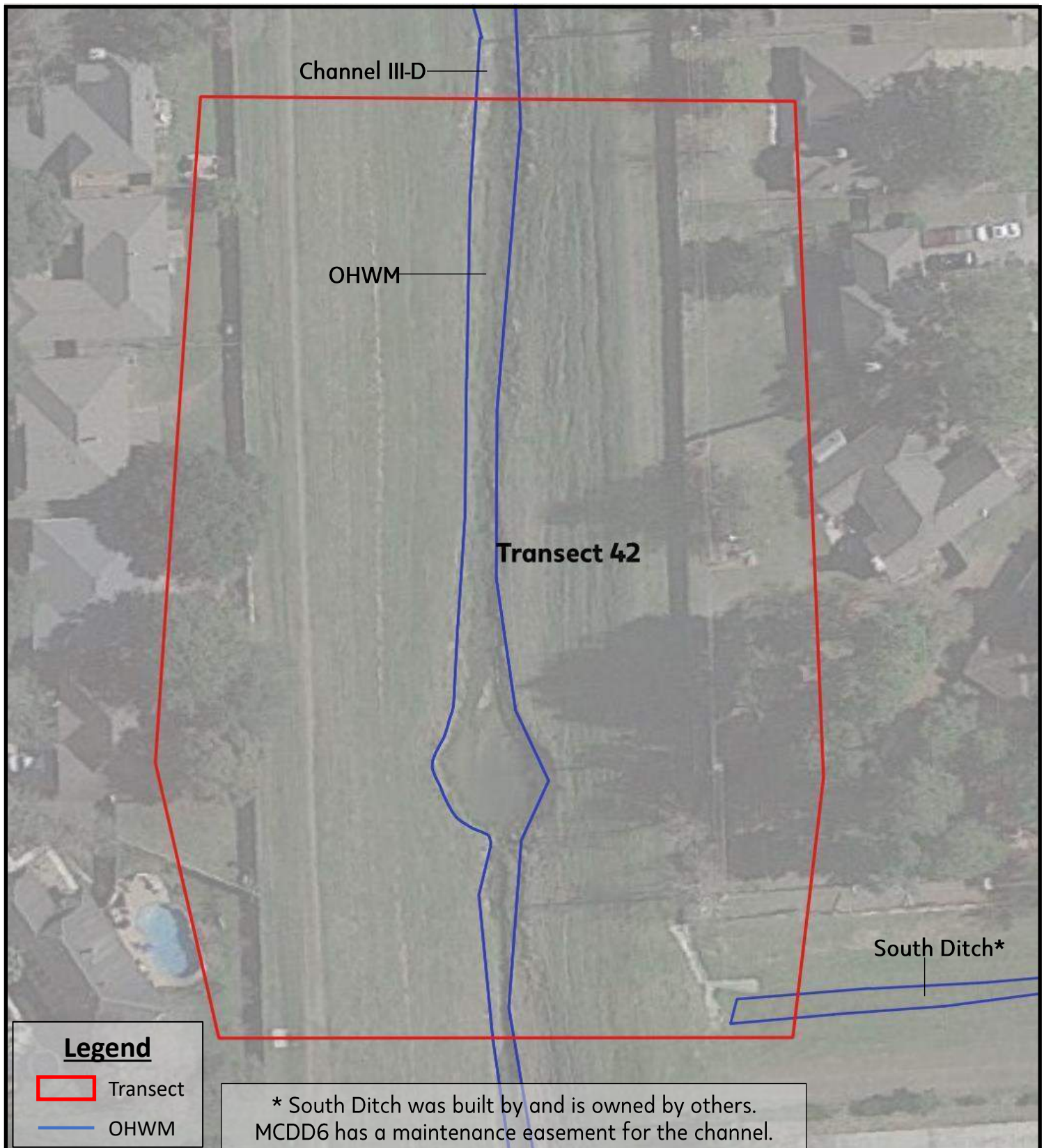



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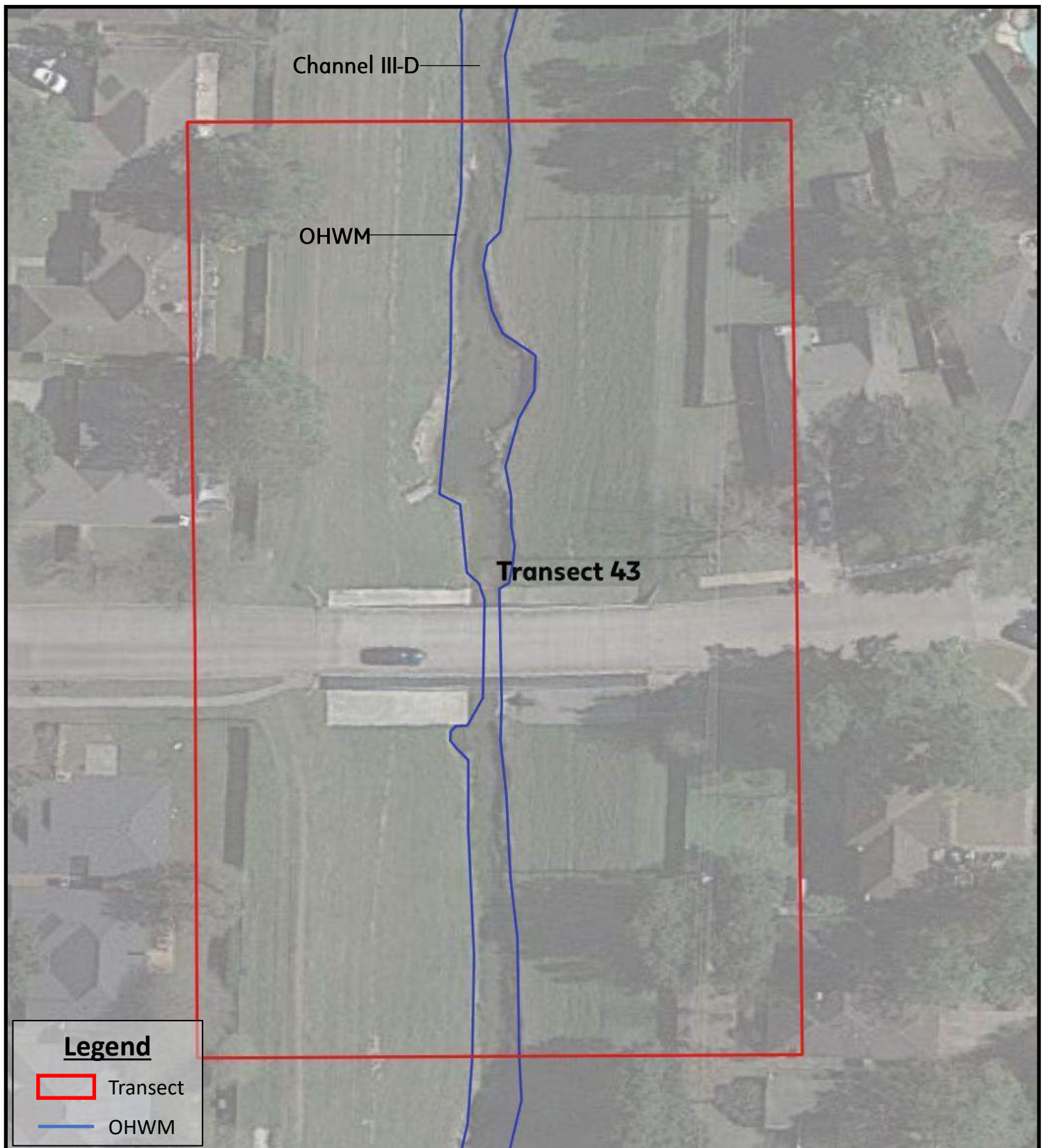
Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





<p>Project: Stream Condition Assessment Channel III-D Spring, Montgomery County, TX</p>	<p><b>Channel III Transects</b> Base Map Source: Google Satellite Image Date 12/1/2019</p> <p> <b>WILD ASSOCIATES</b> Engineering &amp; Environmental Consulting Houston, Texas</p>	<p> Scale: 1 in. ≈ 50 ft Project No.: 20.01.021</p> <p>Client: Montgomery County Drainage District Number 6</p>
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Project:  
Stream Condition Assessment  
Channel III-D  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



**WILD ASSOCIATES**  
Engineering & Environmental Consulting  
Houston, Texas

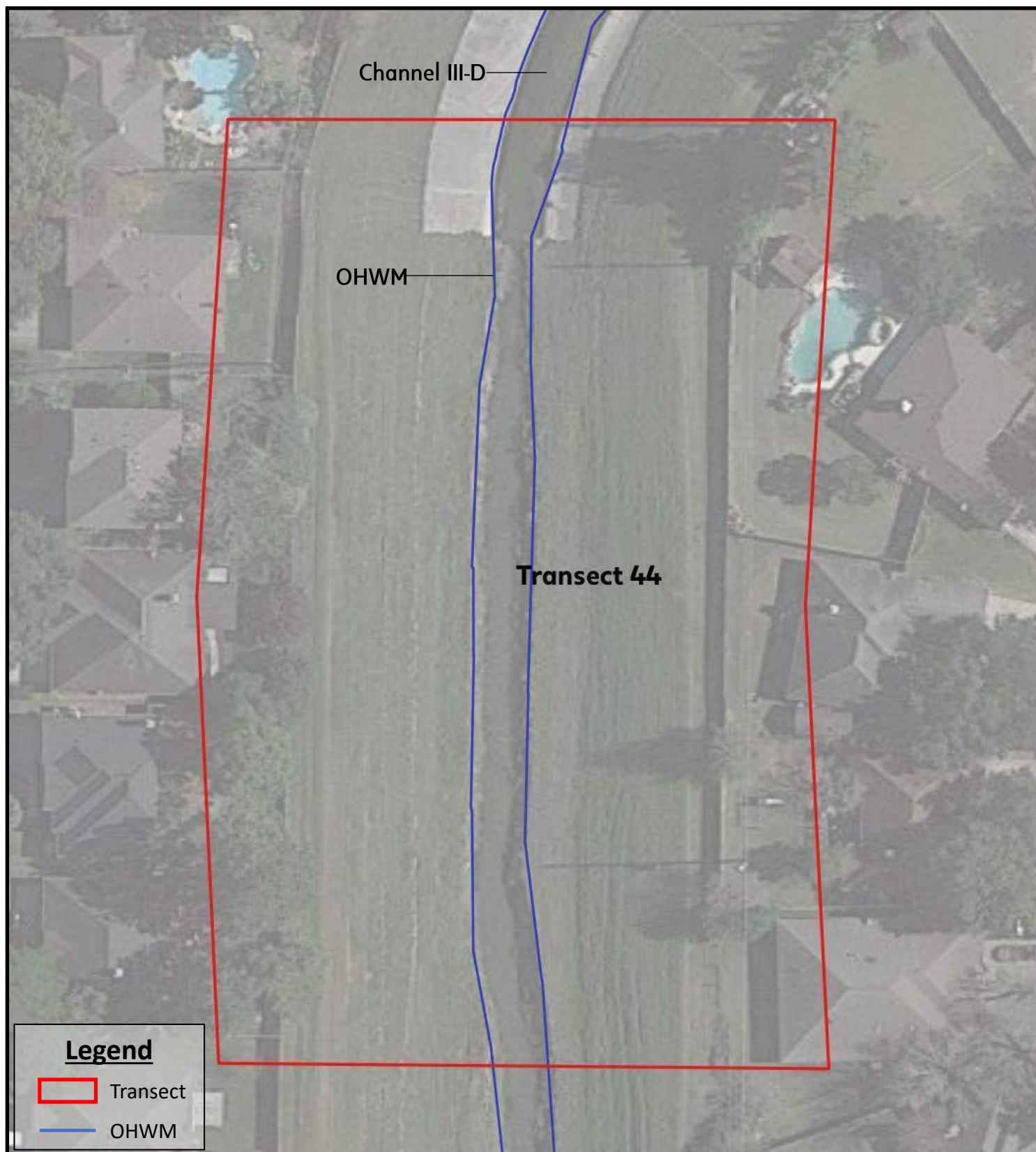


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6






**Legend**

Transect

— OHWM

<p>Project: Stream Condition Assessment Channel III-D Spring, Montgomery County, TX</p>	<p><b>Channel III Transects</b> Base Map Source: Google Satellite Image Date 12/1/2019</p>		<p>Scale: 1 in. ≈ 50 ft</p>
			<p>Project No.: 20.01.021</p> <p>Client: Montgomery County Drainage District Number 6</p>



Project:  
Stream Condition Assessment  
Channel III-D  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

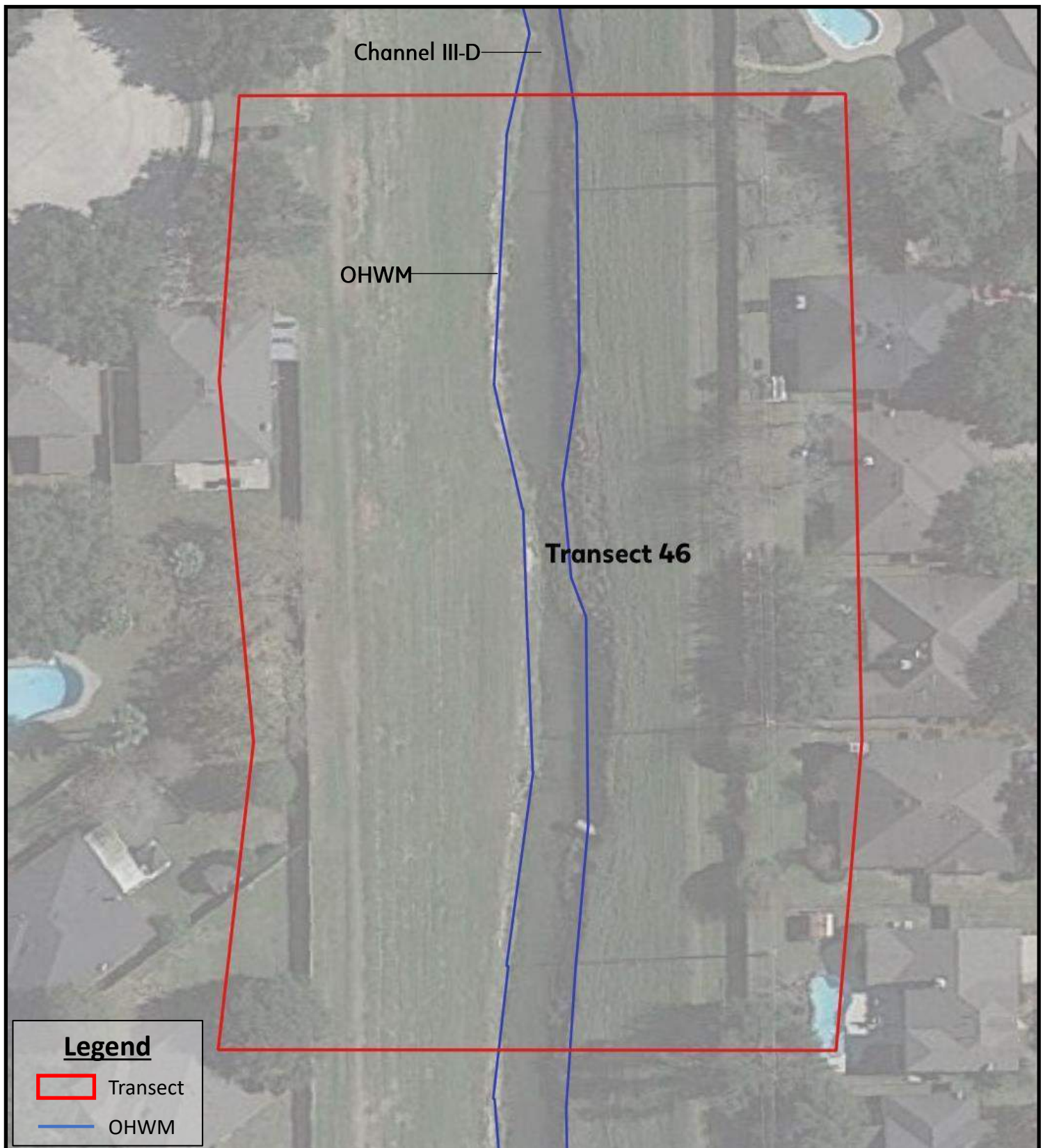


Scale: 1 in. ≈ 50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-D  
Spring, Montgomery County, TX

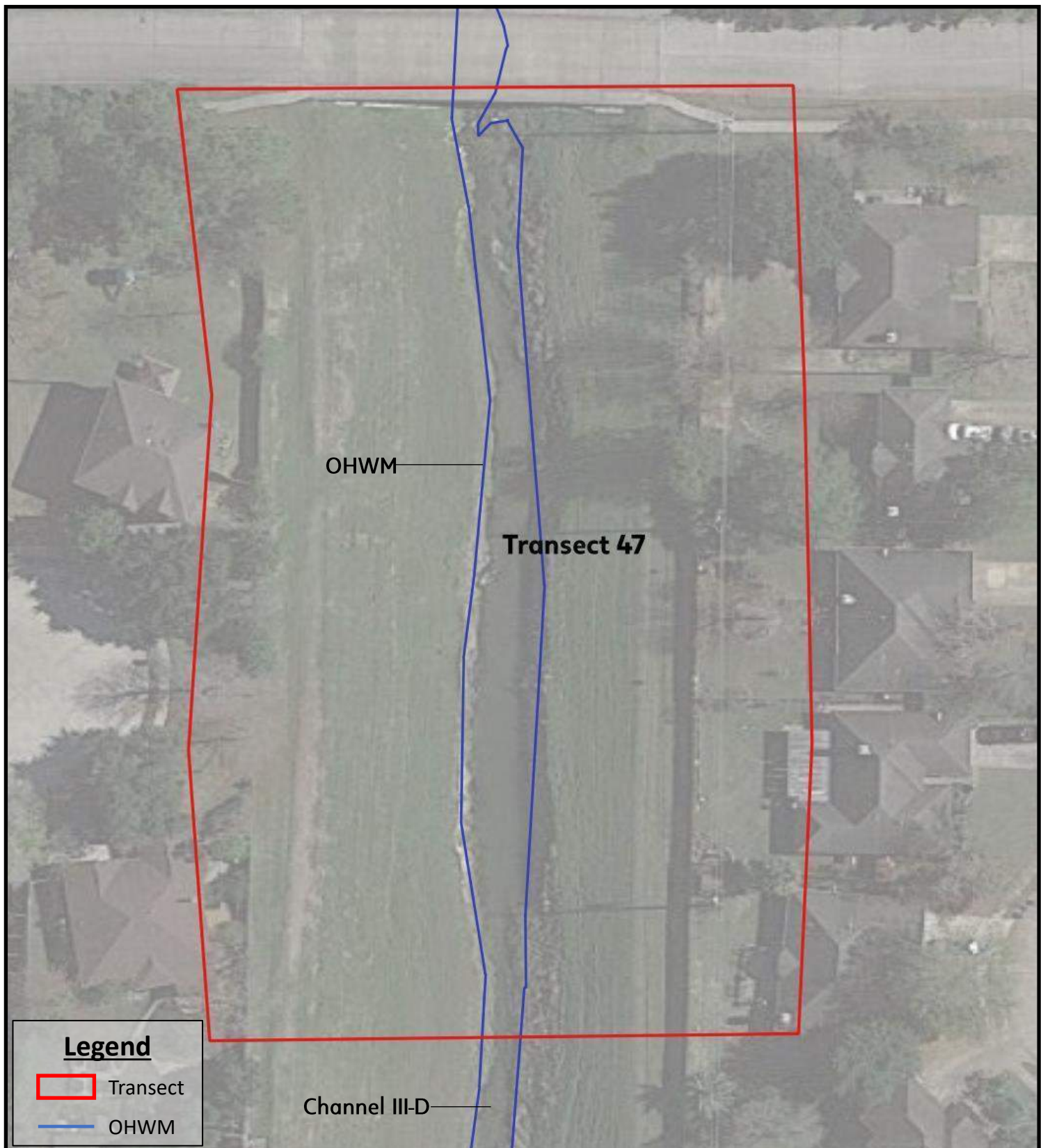
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Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



Project:  
Stream Condition Assessment  
Channel III-D  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

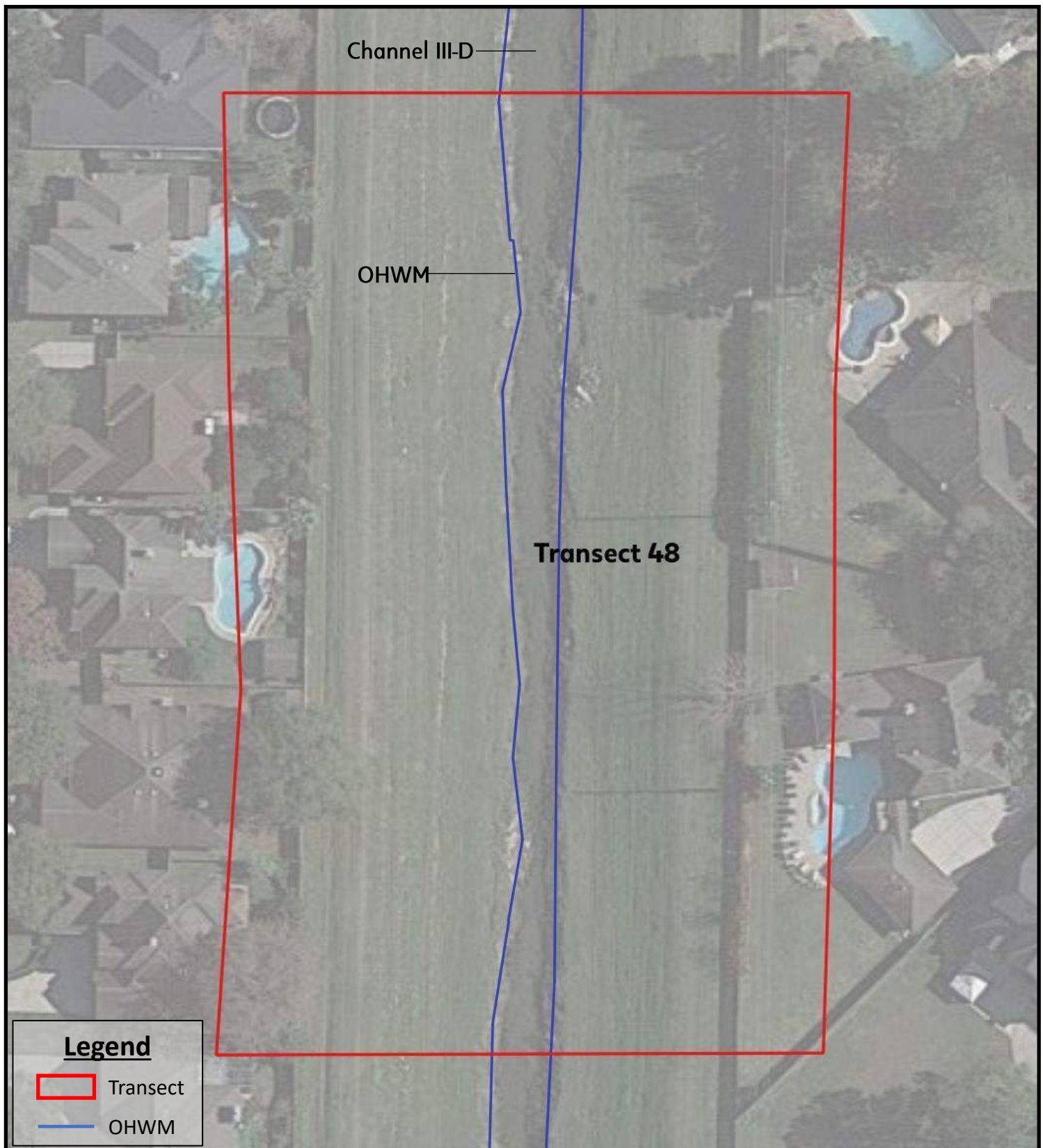


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-D  
Spring, Montgomery County, TX

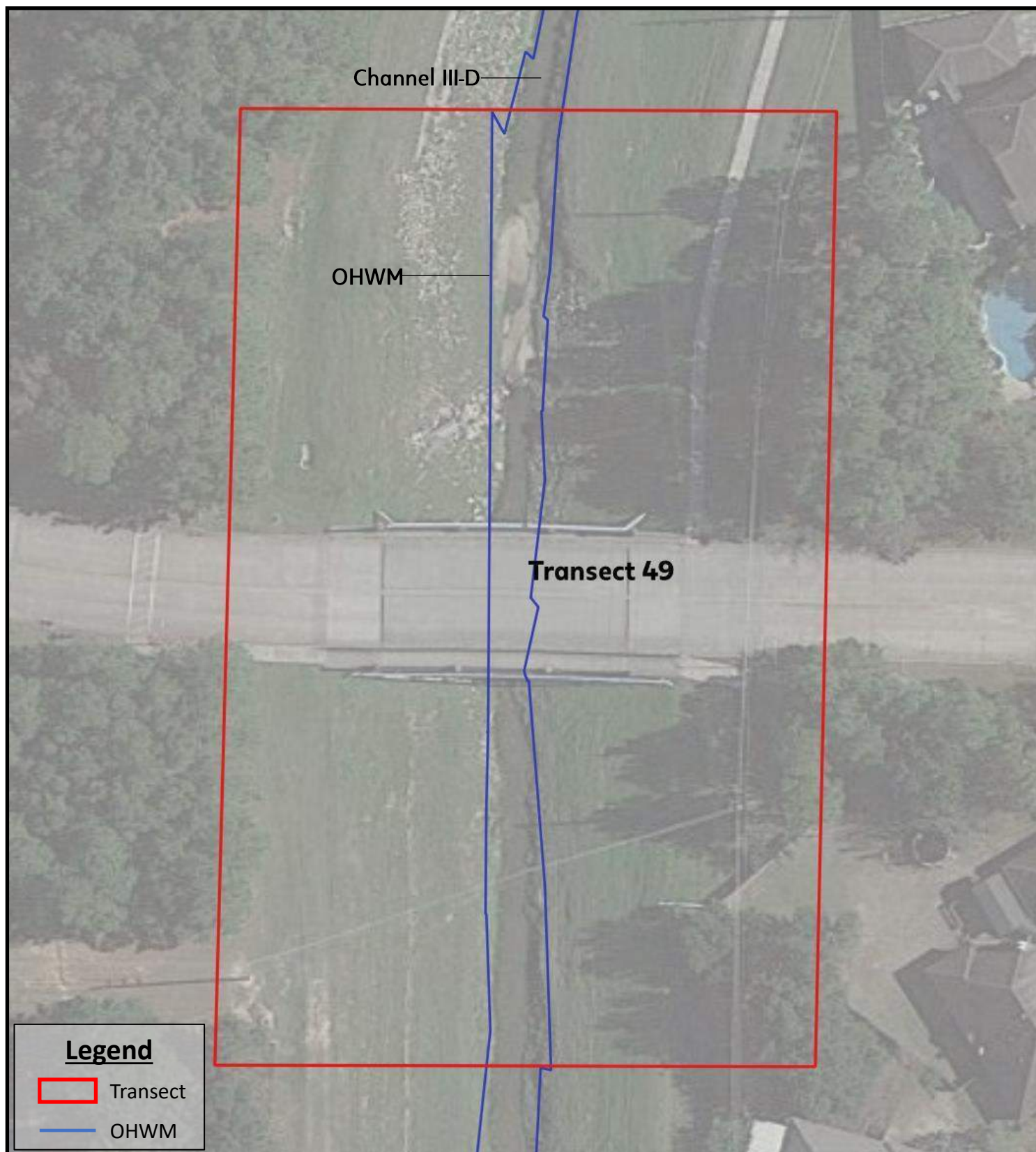
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Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021


Client:  
Montgomery County Drainage  
District Number 6



**Legend**

Transect

OHWM

<p>Project: Stream Condition Assessment Channel III-D Spring, Montgomery County, TX</p>	<p><b>Channel III Transects</b> Base Map Source: Google Satellite Image Date 12/1/2019</p>		<p>Scale: 1 in. ≈ 50 ft</p>
			<p>Project No.: 20.01.021</p> <p>Client: Montgomery County Drainage District Number 6</p>







**Legend**

Transect

OHWM

<p>Project: Stream Condition Assessment Channel III-D Spring, Montgomery County, TX</p>	<p><b>Channel III Transects</b> Base Map Source: Google Satellite Image Date 12/1/2019</p> <p> <b>WILD ASSOCIATES</b> Engineering &amp; Environmental Consulting Houston, Texas</p>		<p>Scale: 1 in. ≈ 50 ft</p>
			<p>Project No.: 20.01.021</p> <p>Client: Montgomery County Drainage District Number 6</p>



Project:  
Stream Condition Assessment  
Channel III-D  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

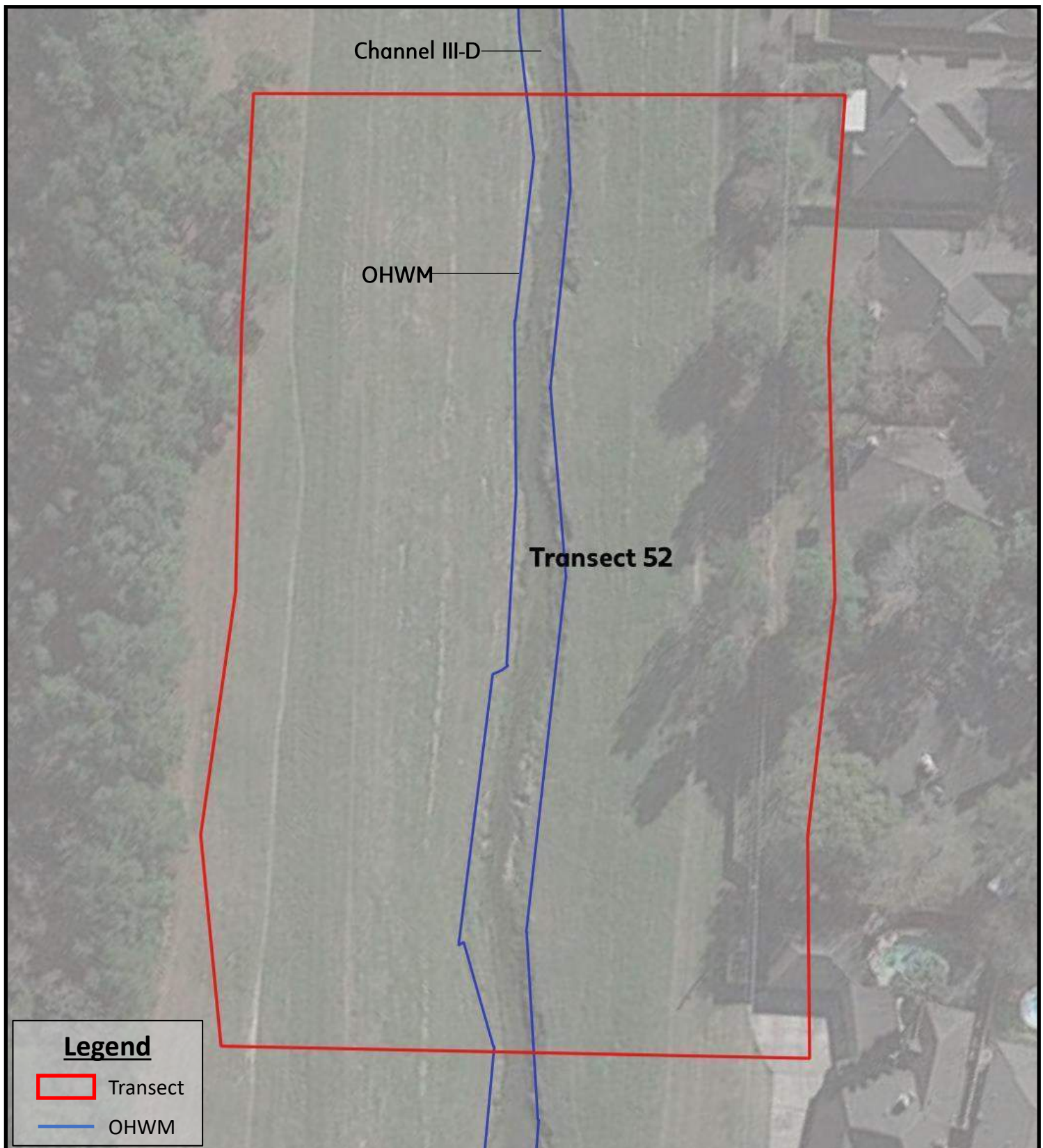


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-D  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





**Legend**

Transect

OHWM

<p>Project: Stream Condition Assessment Channel III-D Spring, Montgomery County, TX</p>	<p><b>Channel III Transects</b> Base Map Source: Google Satellite Image Date 12/1/2019</p>		<p>Scale: 1 in. ≈ 50 ft</p>
			<p>Project No.: 20.01.021</p> <p>Client: Montgomery County Drainage District Number 6</p>



### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-D  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-D  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-D  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

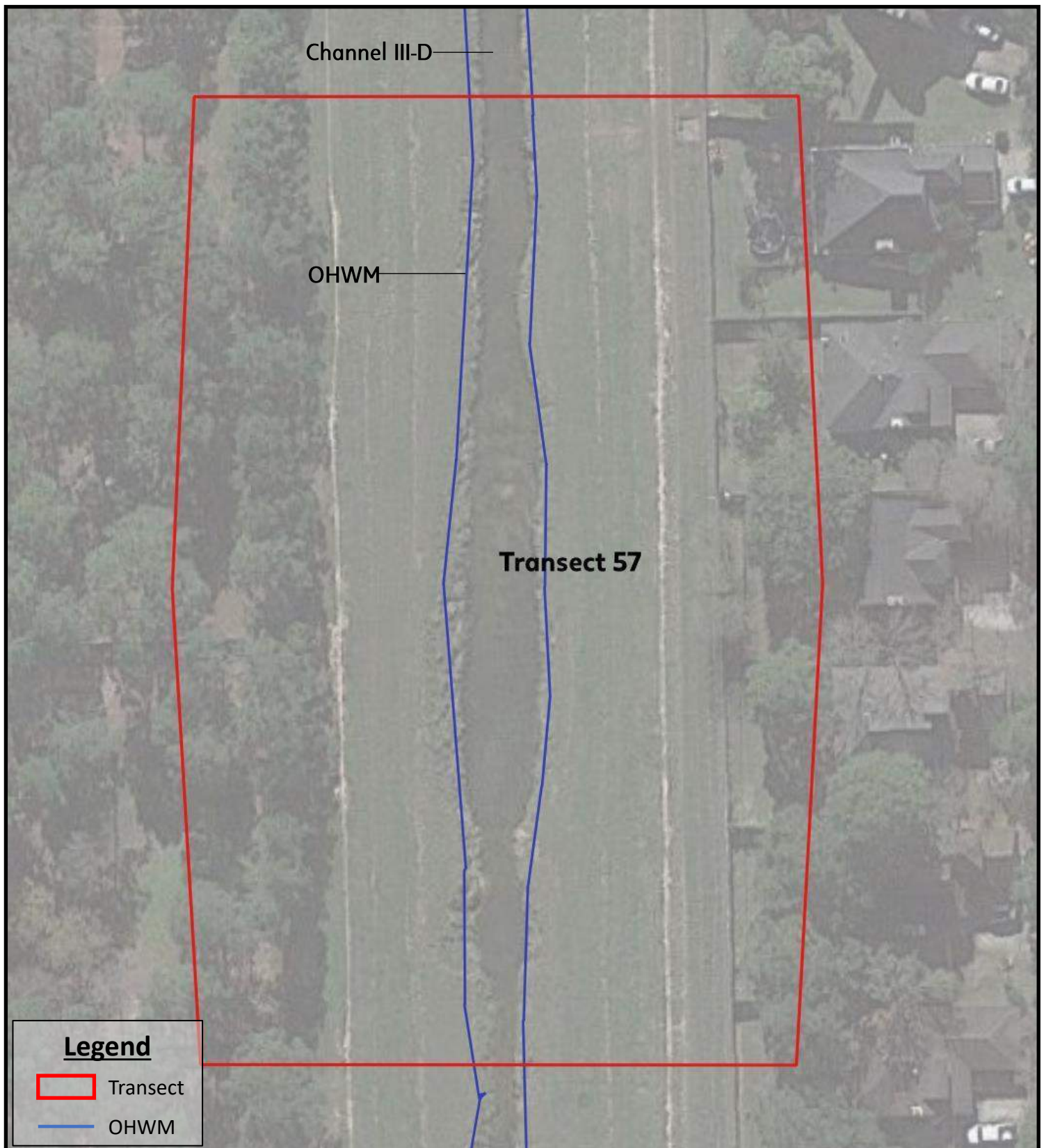


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-D  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

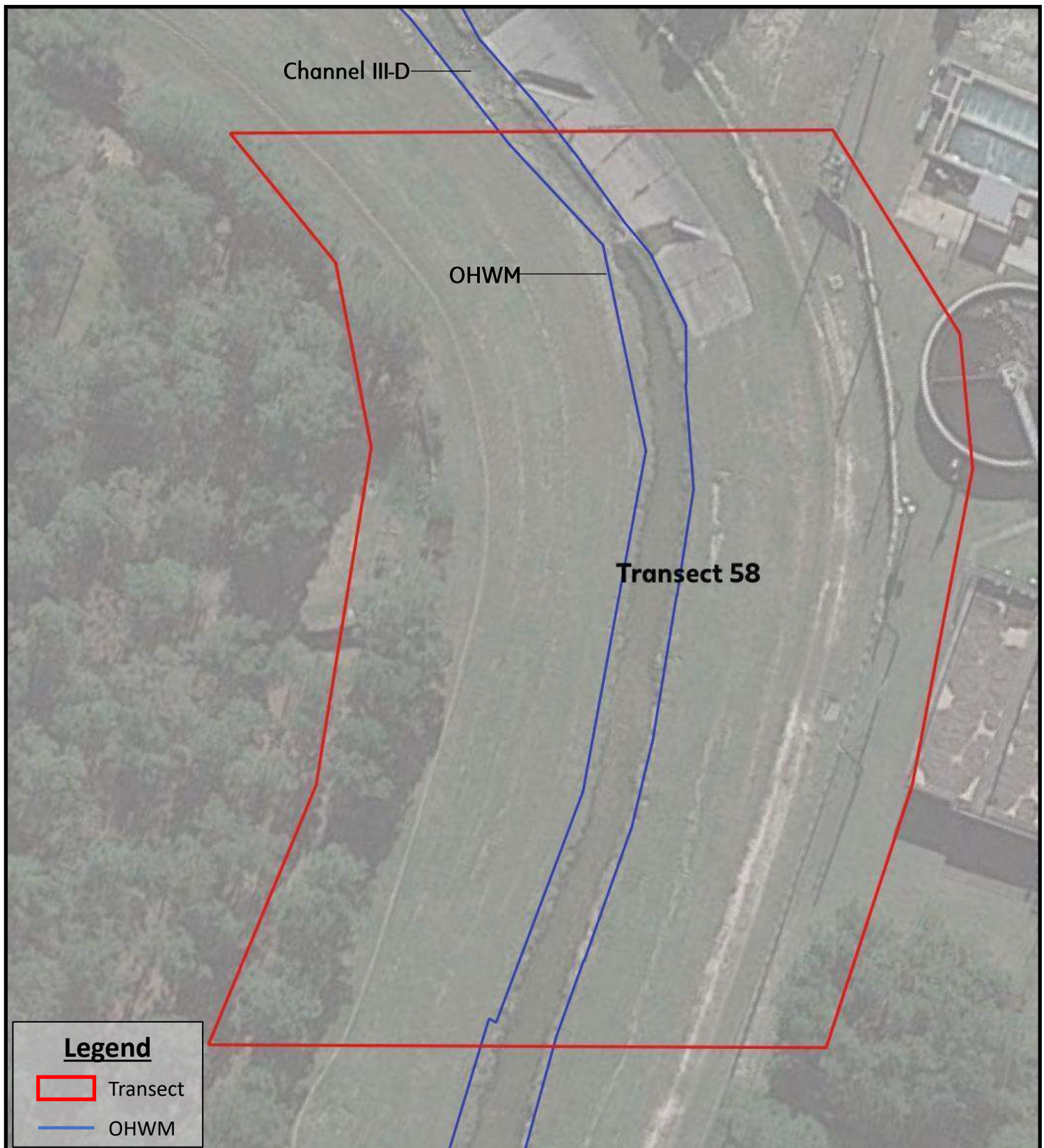


Scale: 1 in. ≈ 50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-D  
Spring, Montgomery County, TX

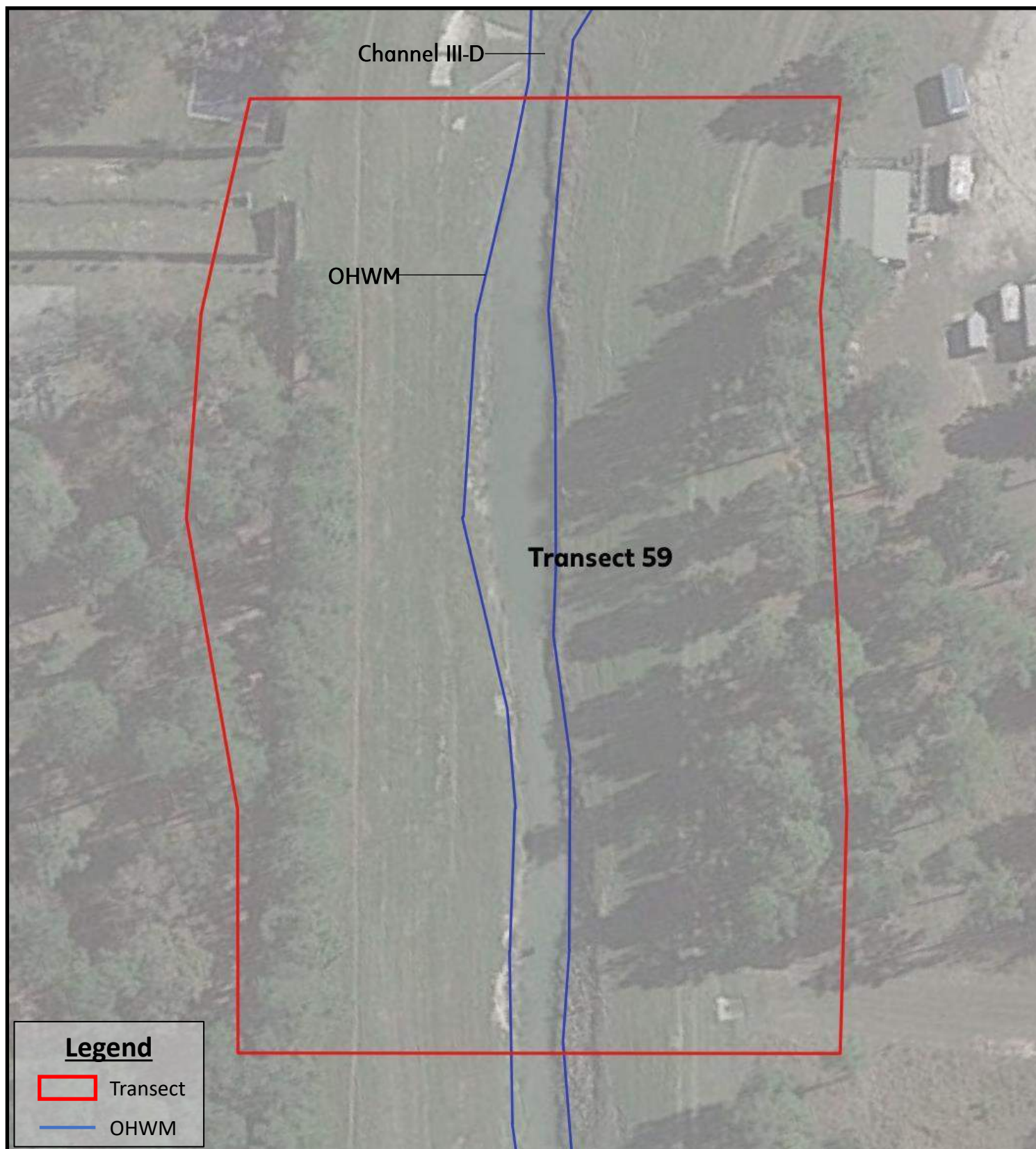
**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



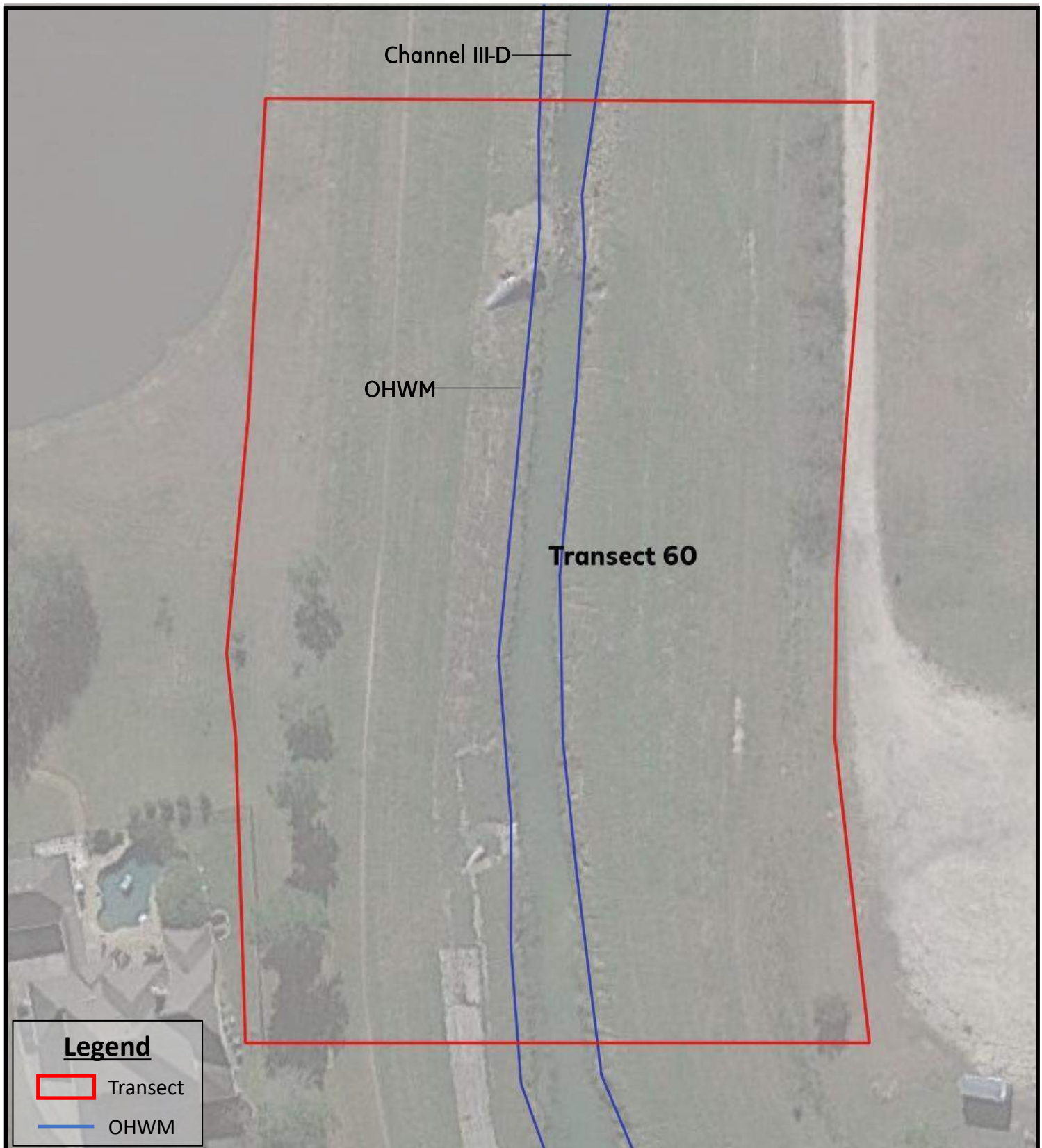
**Legend**

Transect

OHWM

<p>Project: Stream Condition Assessment Channel III-D Spring, Montgomery County, TX</p>	<p><b>Channel III Transects</b> Base Map Source: Google Satellite Image Date 12/1/2019</p>		<p>Scale: 1 in. ≈ 50 ft</p>
	<p> <b>WILD ASSOCIATES</b> Engineering &amp; Environmental Consulting Houston, Texas</p>		<p>Project No.: 20.01.021</p>
		<p>Client: Montgomery County Drainage District Number 6</p>	





Project:  
Stream Condition Assessment  
Channel III-D  
Spring, Montgomery County, TX

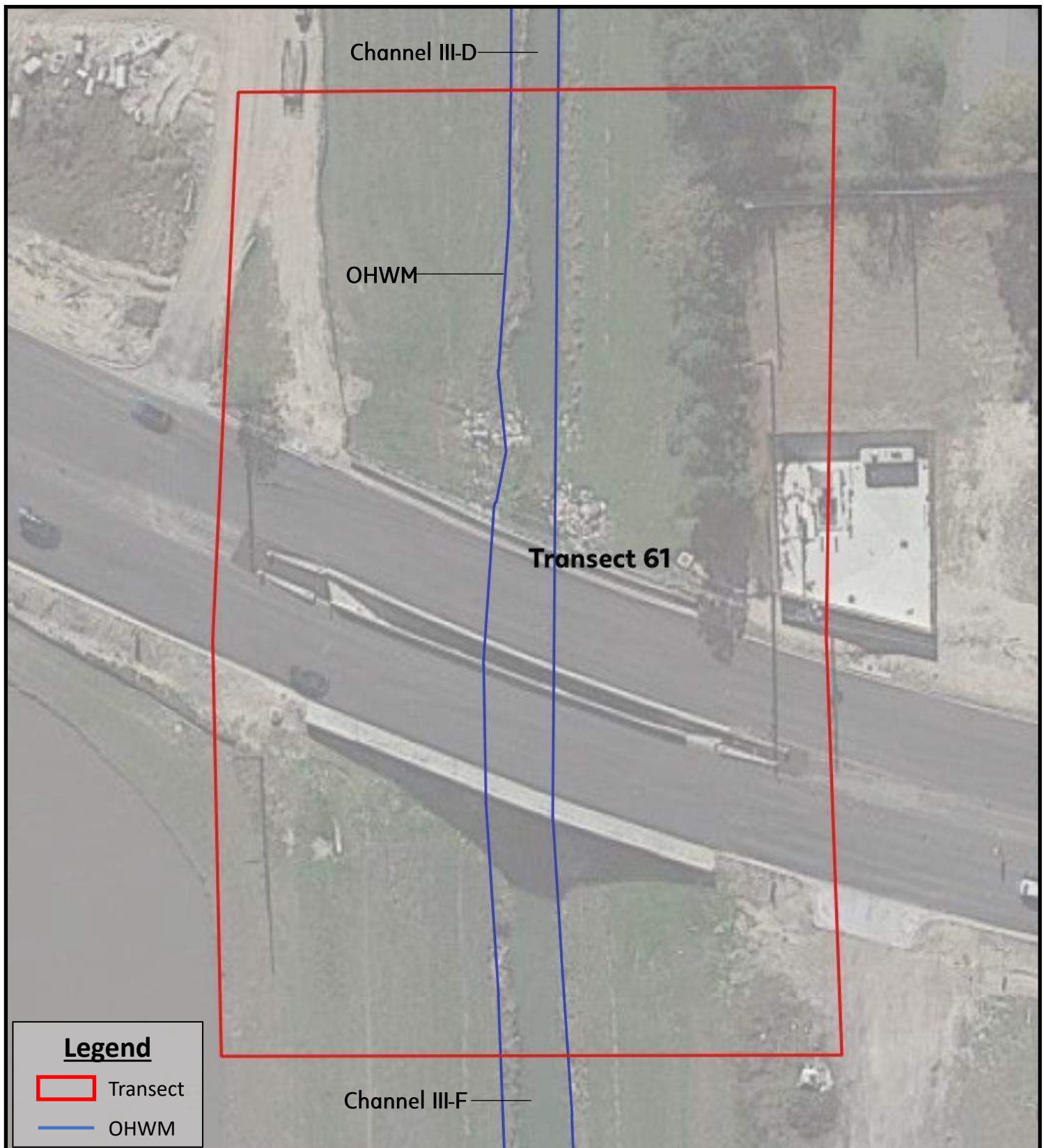
**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-D & III-F  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

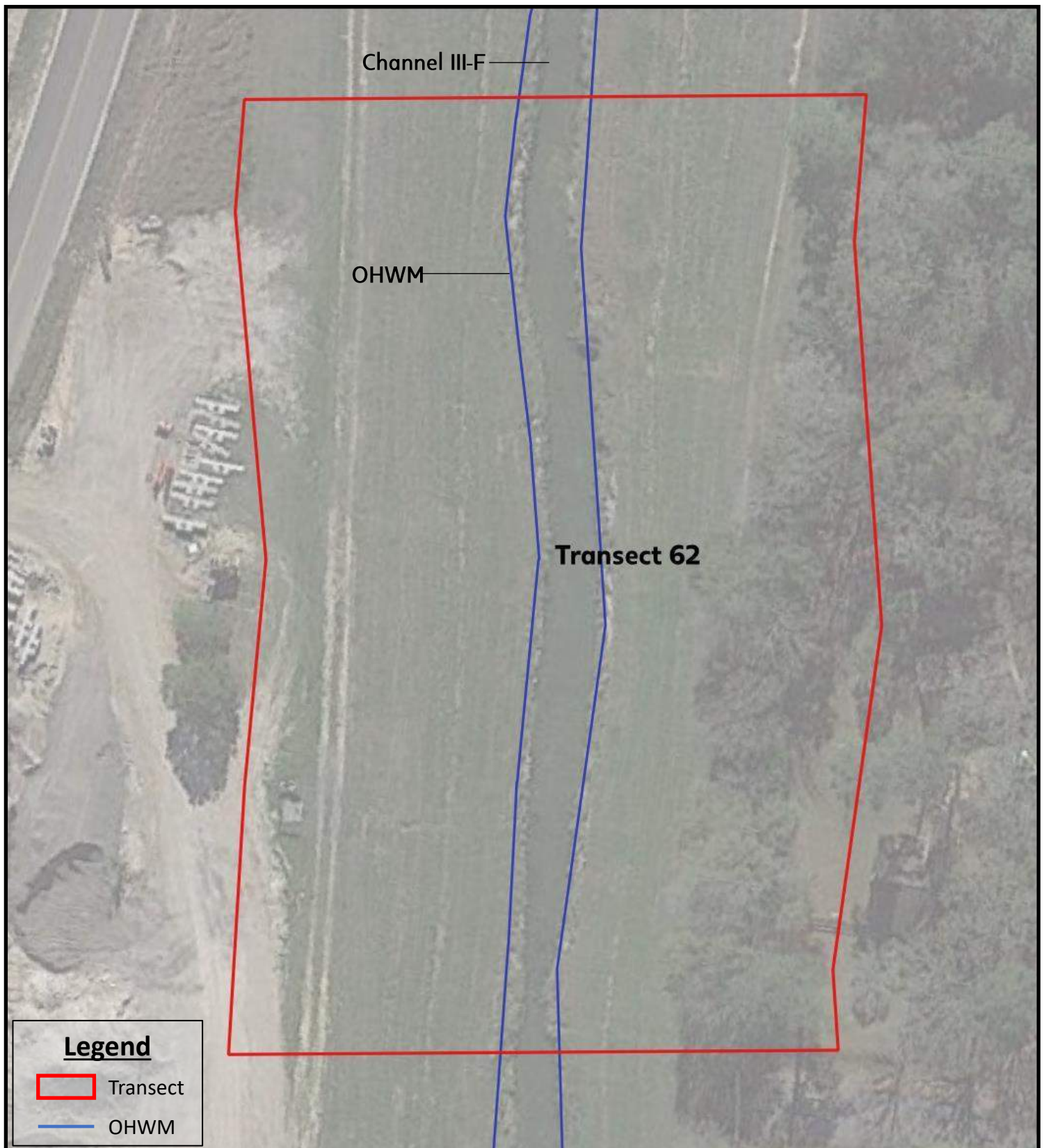


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-F  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

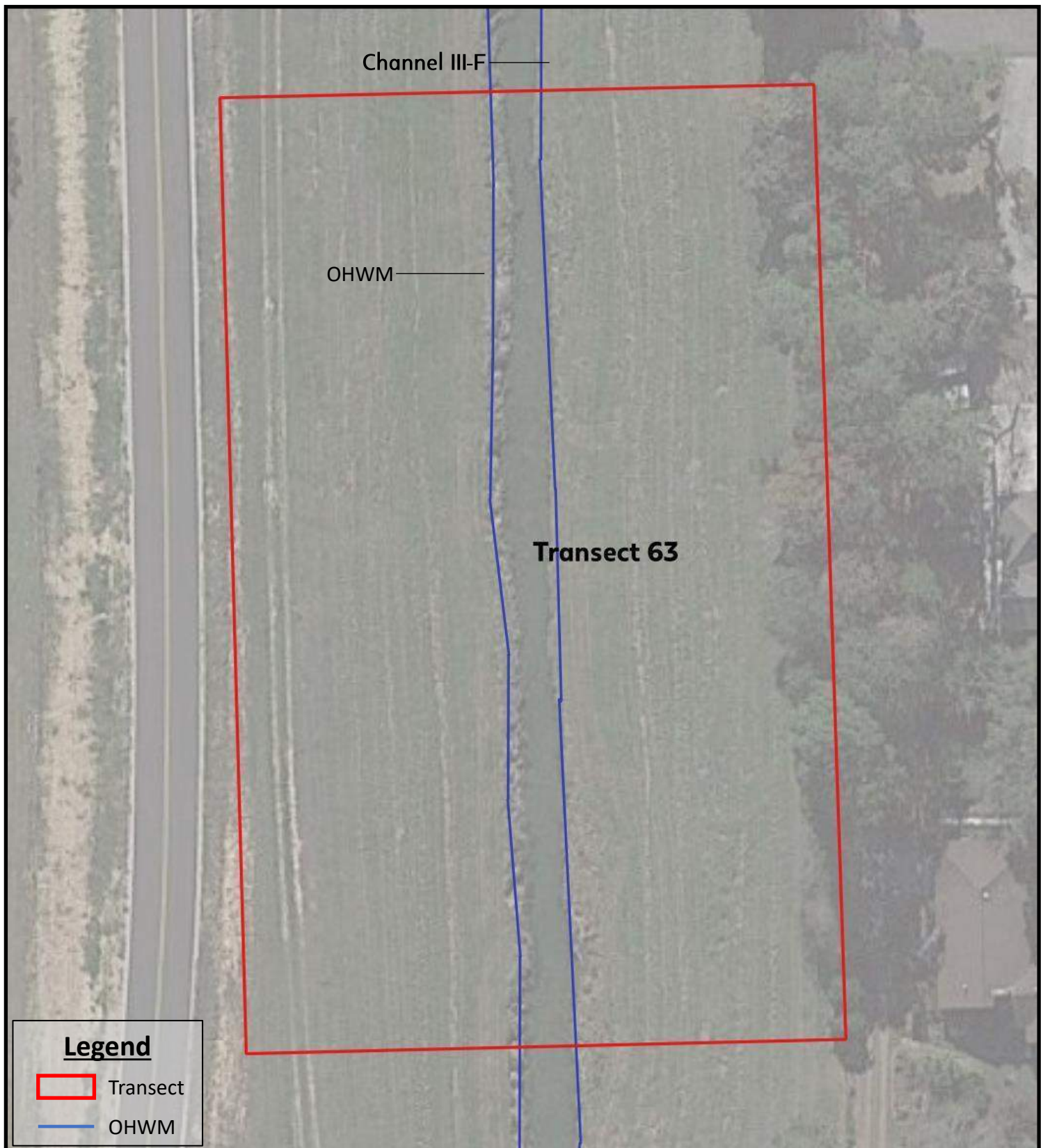


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-F  
Spring, Montgomery County, TX

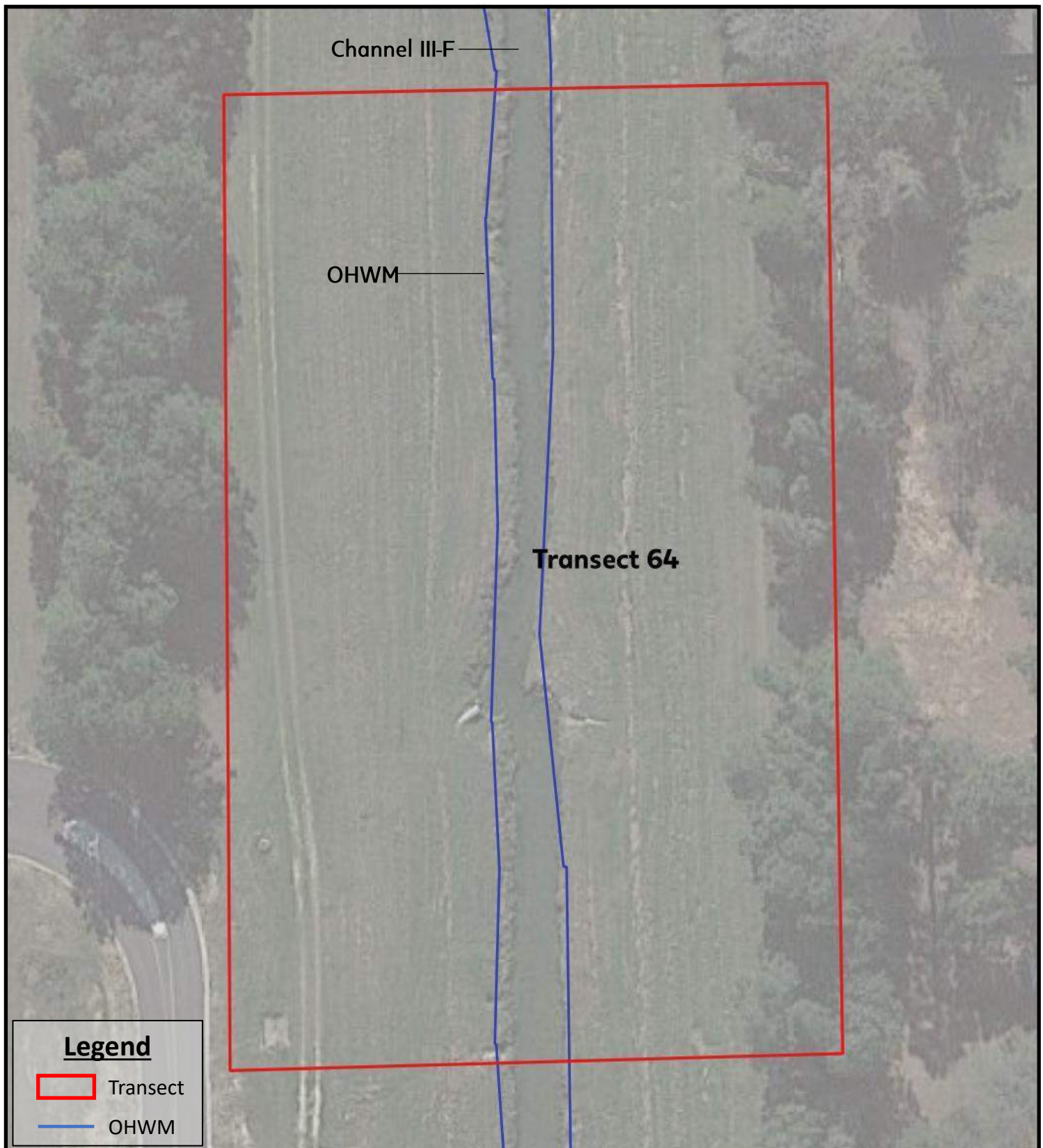
**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-F  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

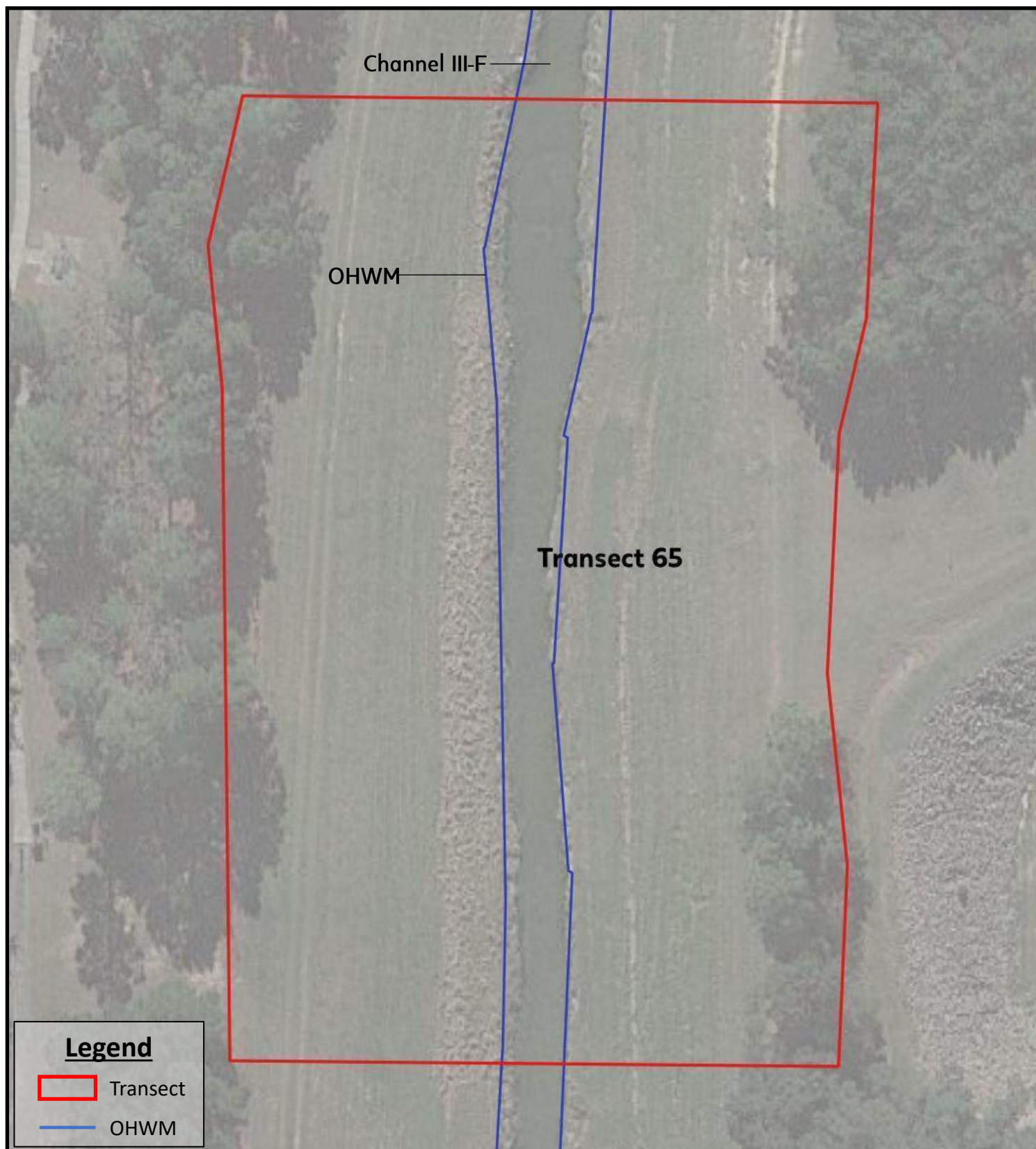


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6




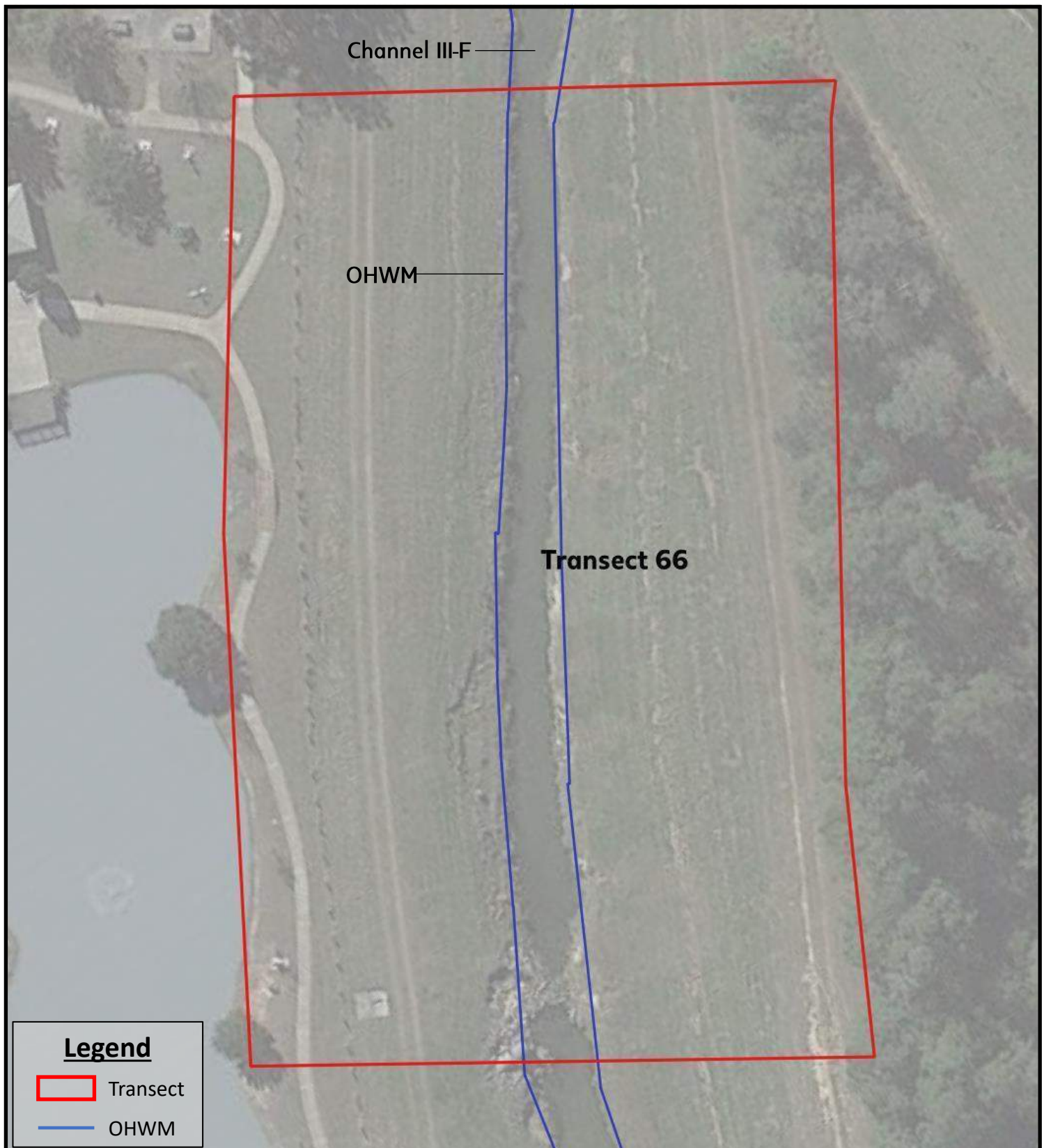


**Legend**

Transect

OHWM

Project: Stream Condition Assessment Channel III-F Spring, Montgomery County, TX	<b>Channel III Transects</b> Base Map Source: Google Satellite Image Date 12/1/2019		Scale: 1 in. ≈ 50 ft
	 <b>WILD ASSOCIATES</b> Engineering & Environmental Consulting Houston, Texas		Project No.: 20.01.021
			Client: Montgomery County Drainage District Number 6



Project:  
Stream Condition Assessment  
Channel III-F  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

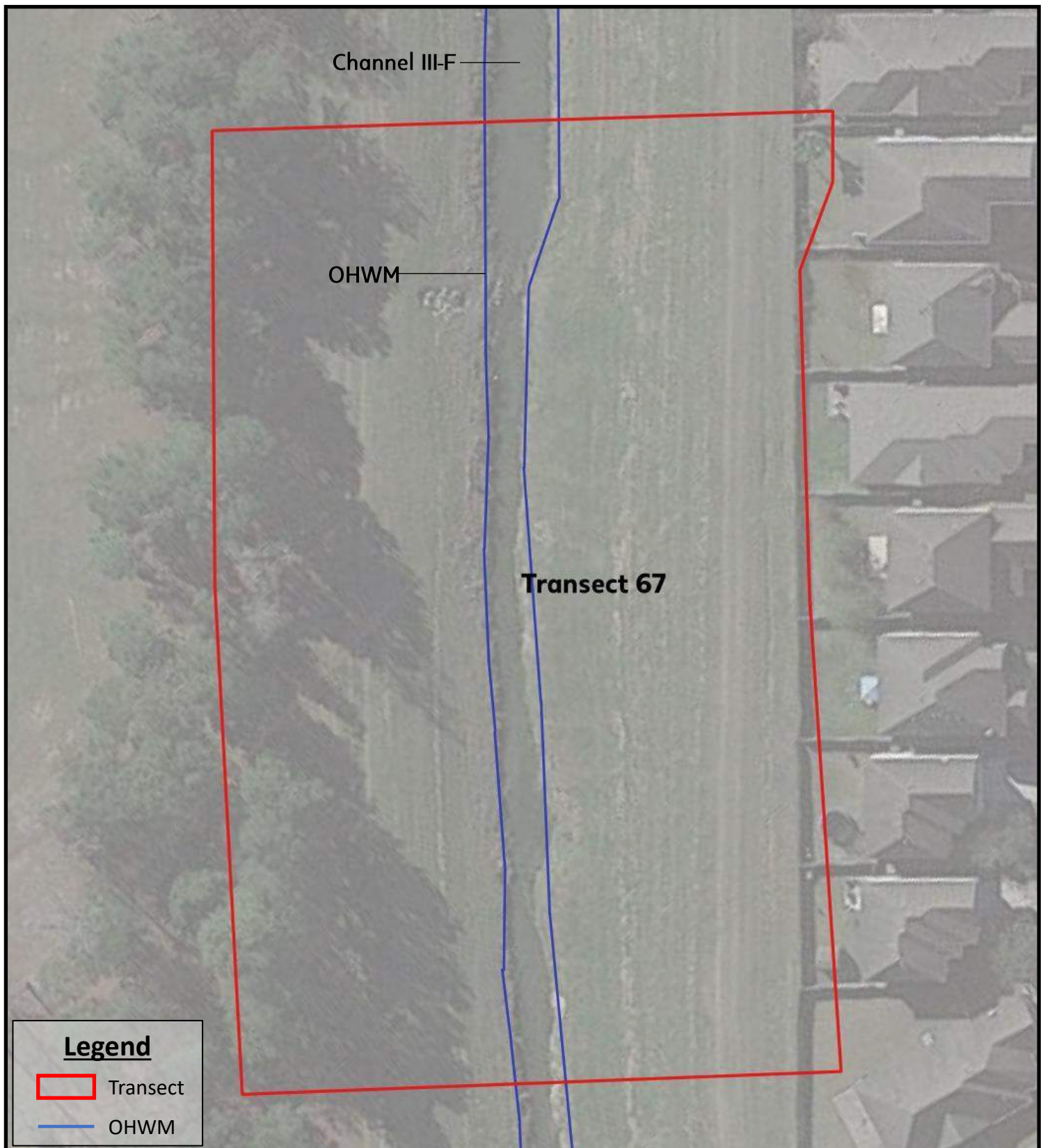


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-F  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019

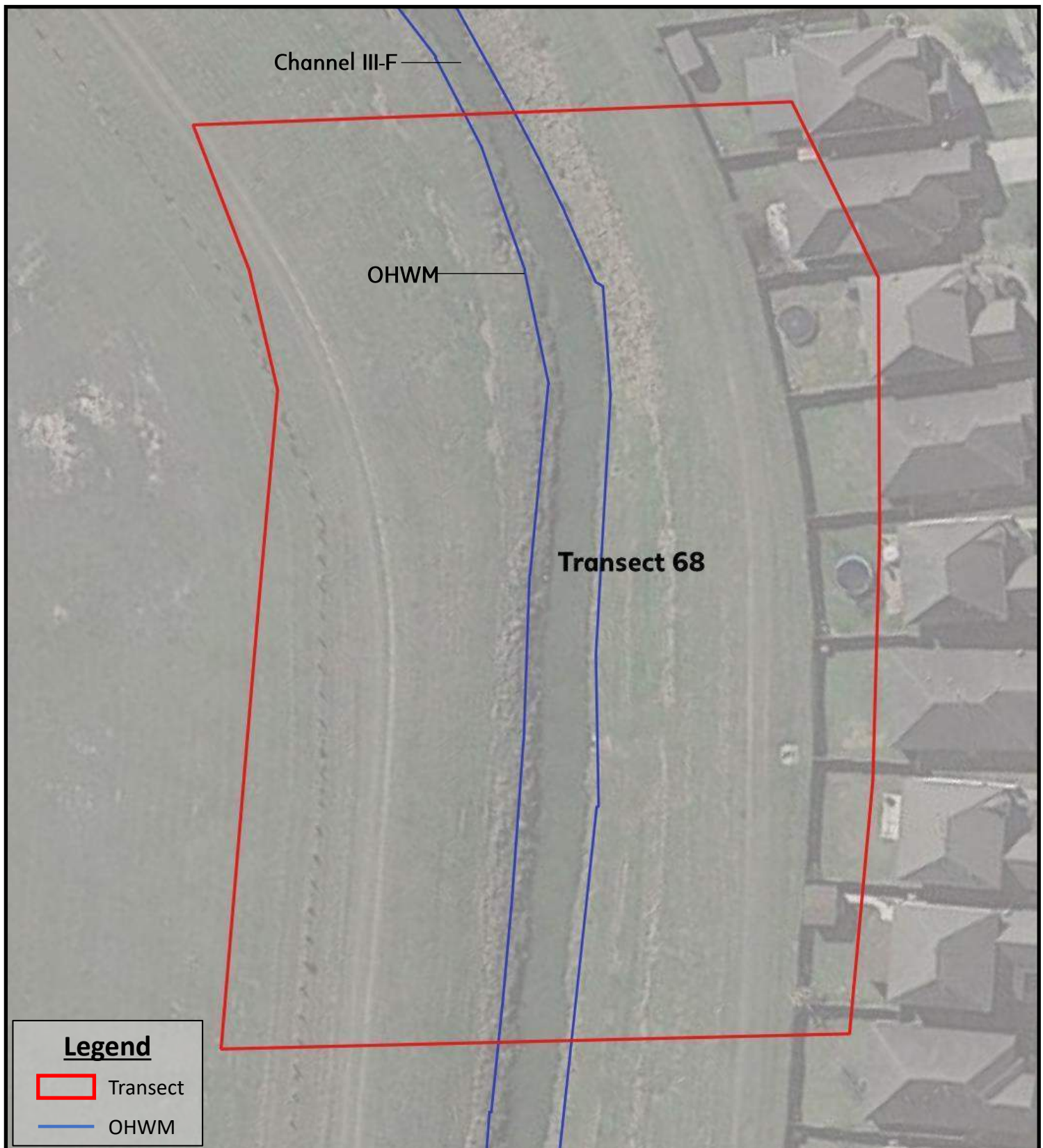


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-F  
Spring, Montgomery County, TX

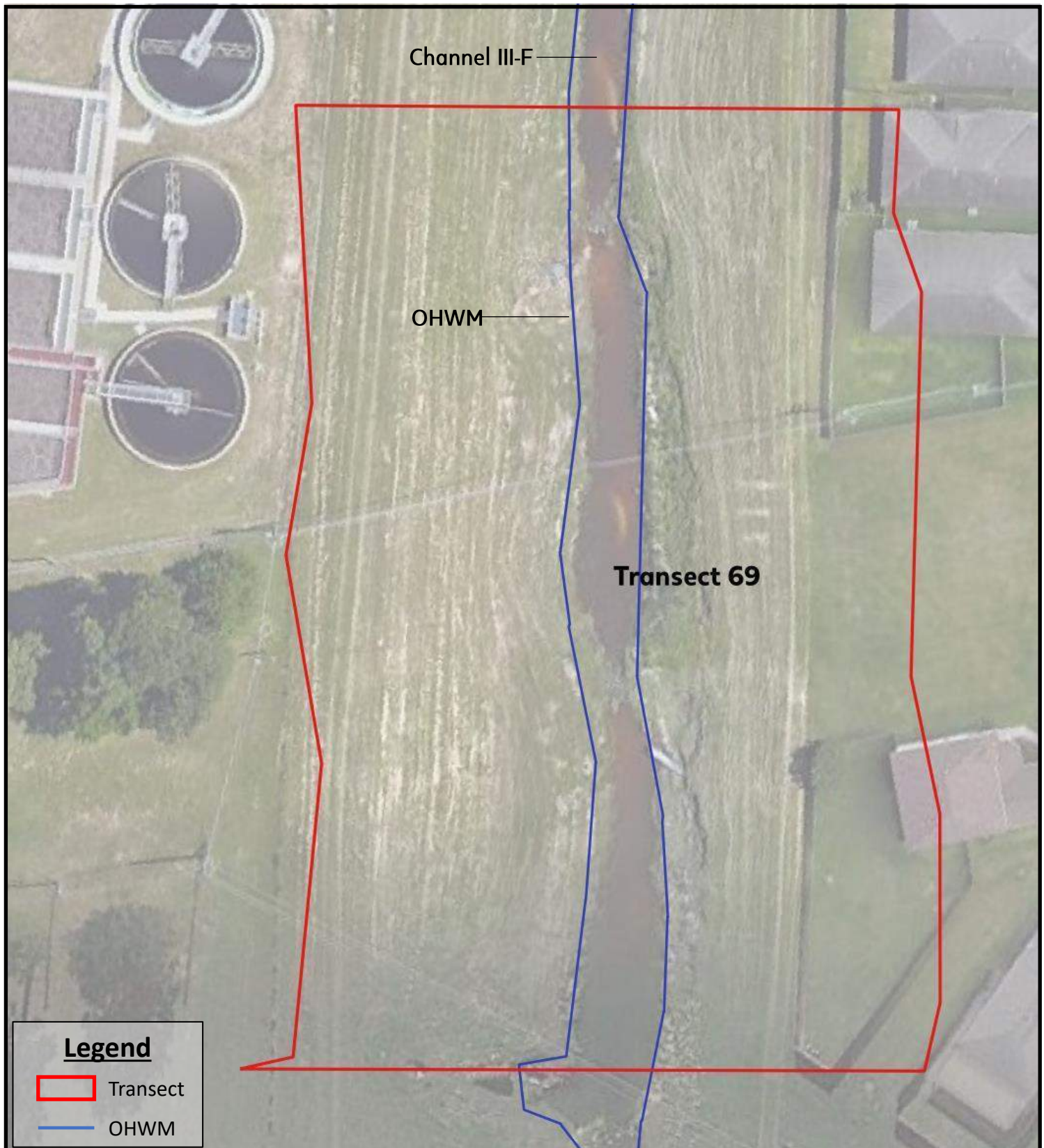
**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/1/2019



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



Project:  
Stream Condition Assessment  
Channel III-F  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/3/2018

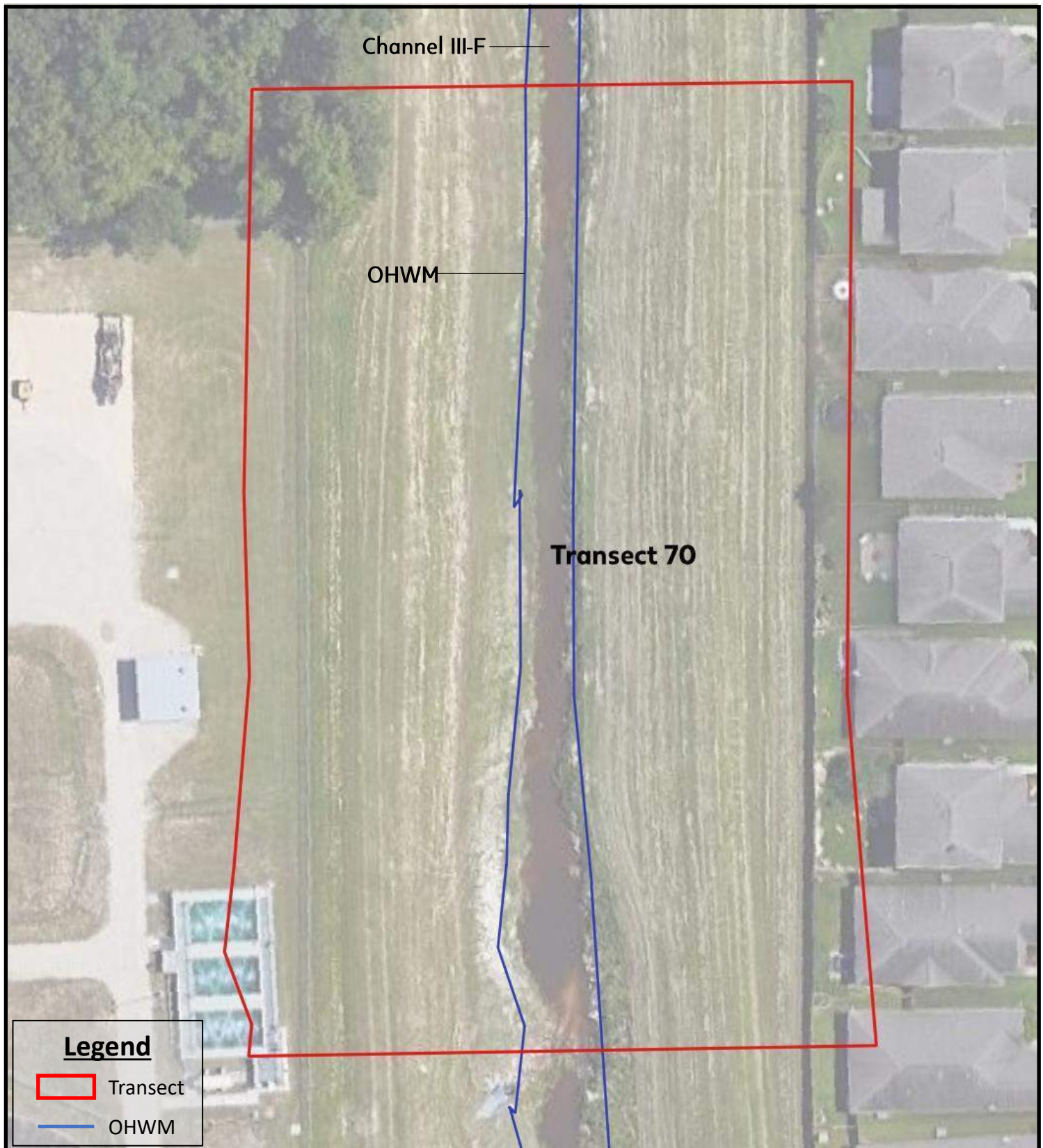


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-F  
Spring, Montgomery County, TX

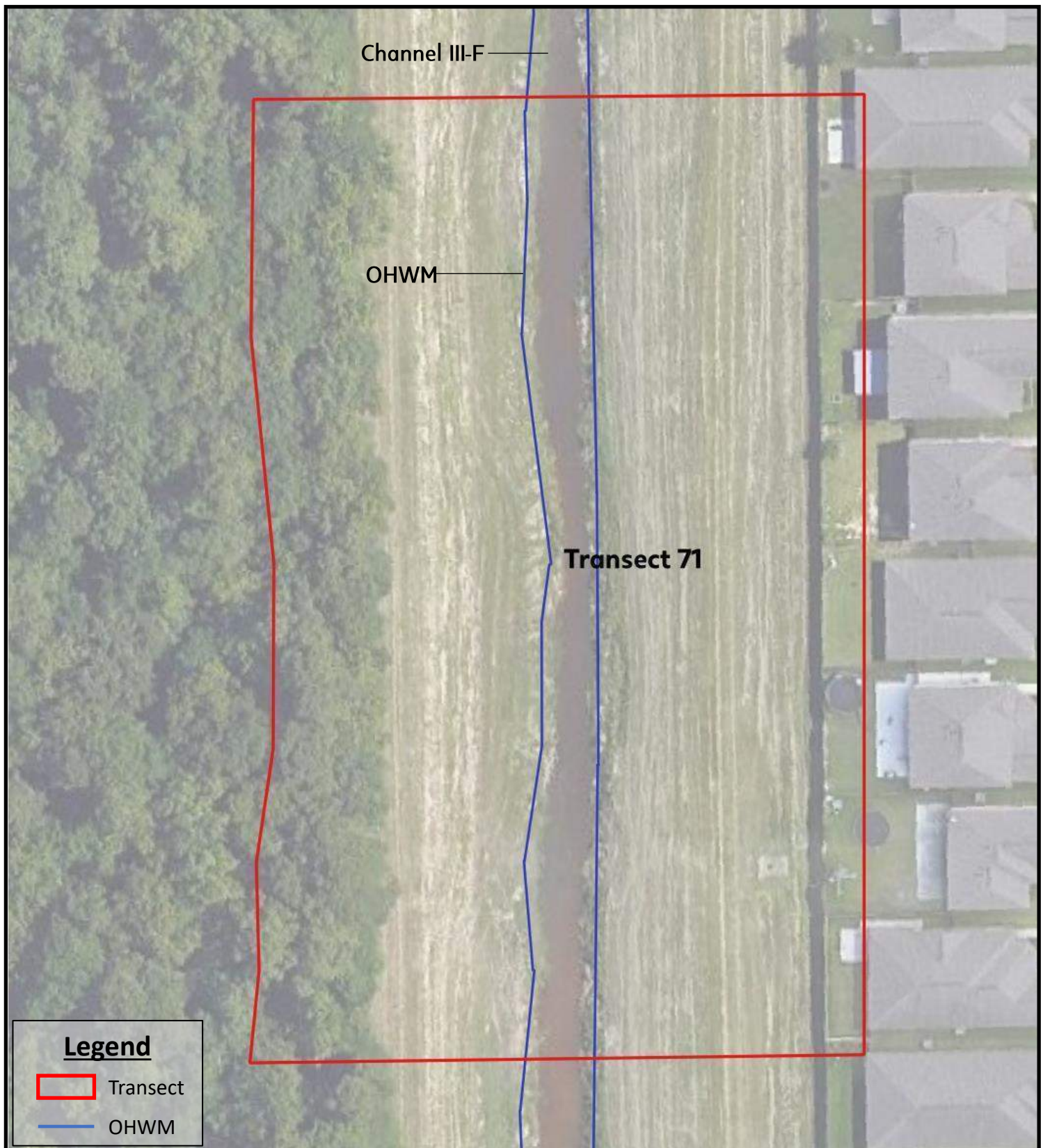
**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/3/2018



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



Project:  
Stream Condition Assessment  
Channel III-F  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/3/2018

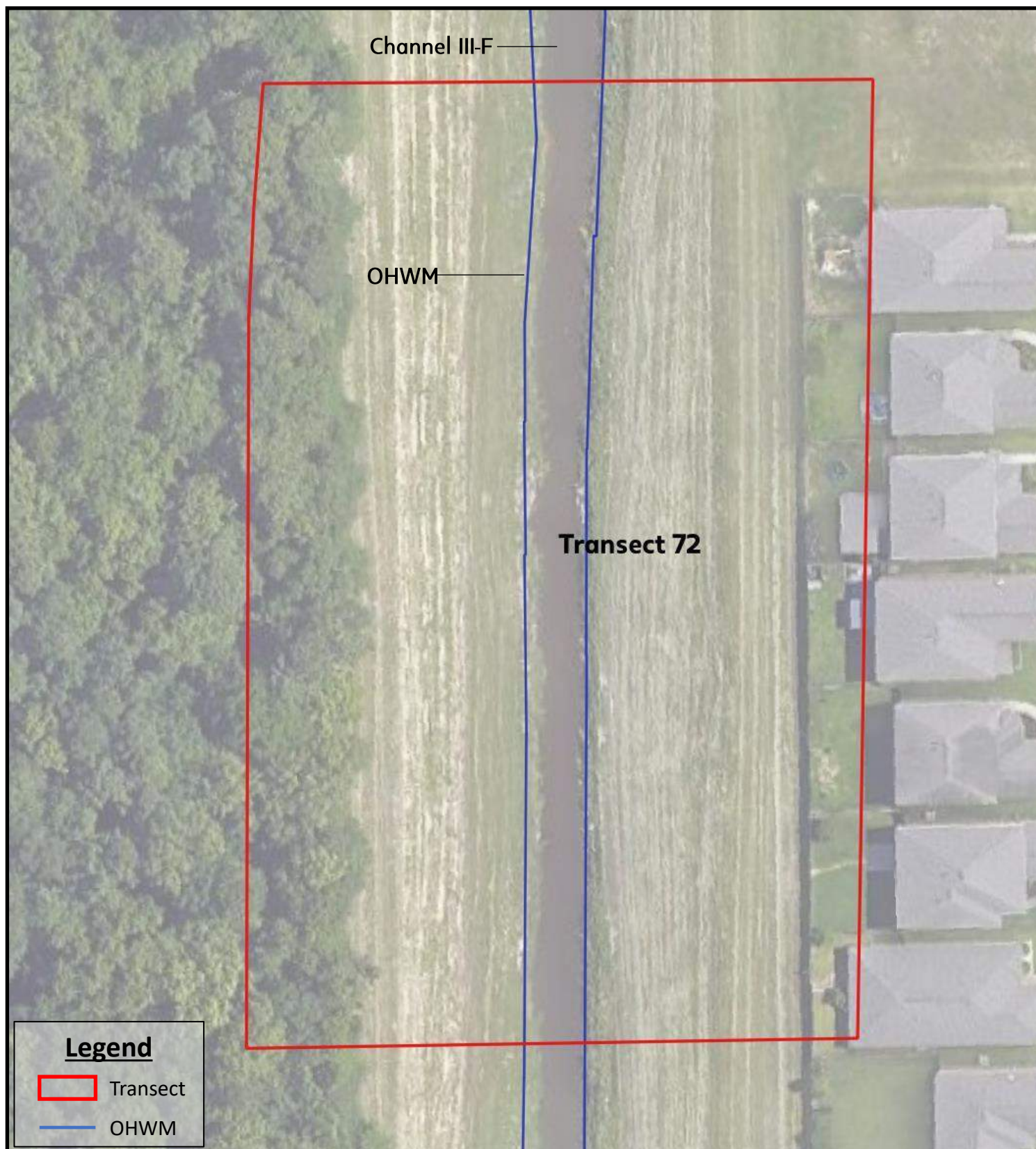


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





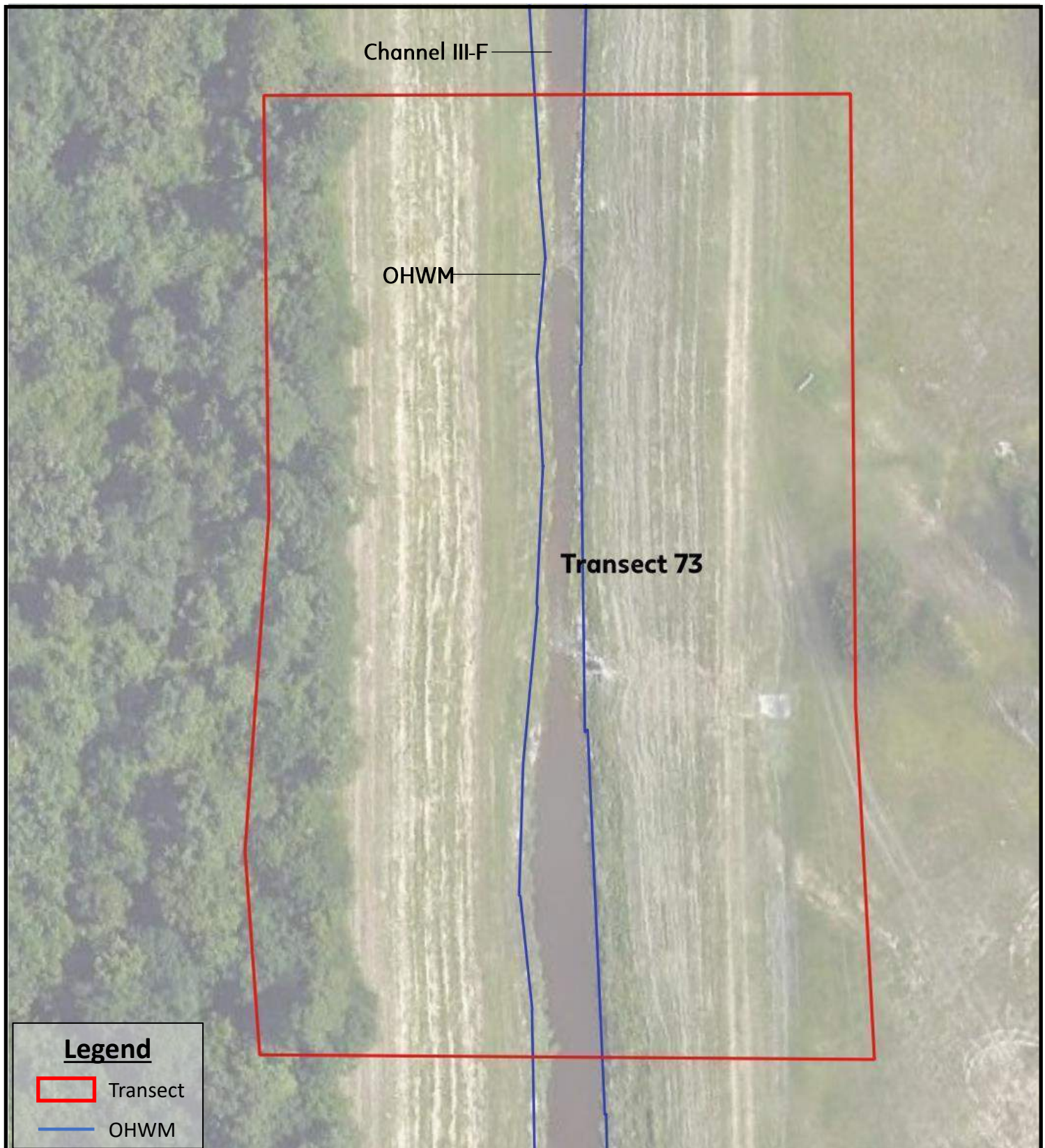
**Legend**

Transect

OHWM

<p>Project: Stream Condition Assessment Channel III-F Spring, Montgomery County, TX</p>	<p><b>Channel III Transects</b> Base Map Source: Google Satellite Image Date 12/3/2018</p> <p> <b>WILD ASSOCIATES</b> Engineering &amp; Environmental Consulting Houston, Texas</p>	<p></p>	<p>Scale: 1 in. ≈ 50 ft</p>
			<p>Project No.: 20.01.021</p> <p>Client: Montgomery County Drainage District Number 6</p>





### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-F  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/3/2018

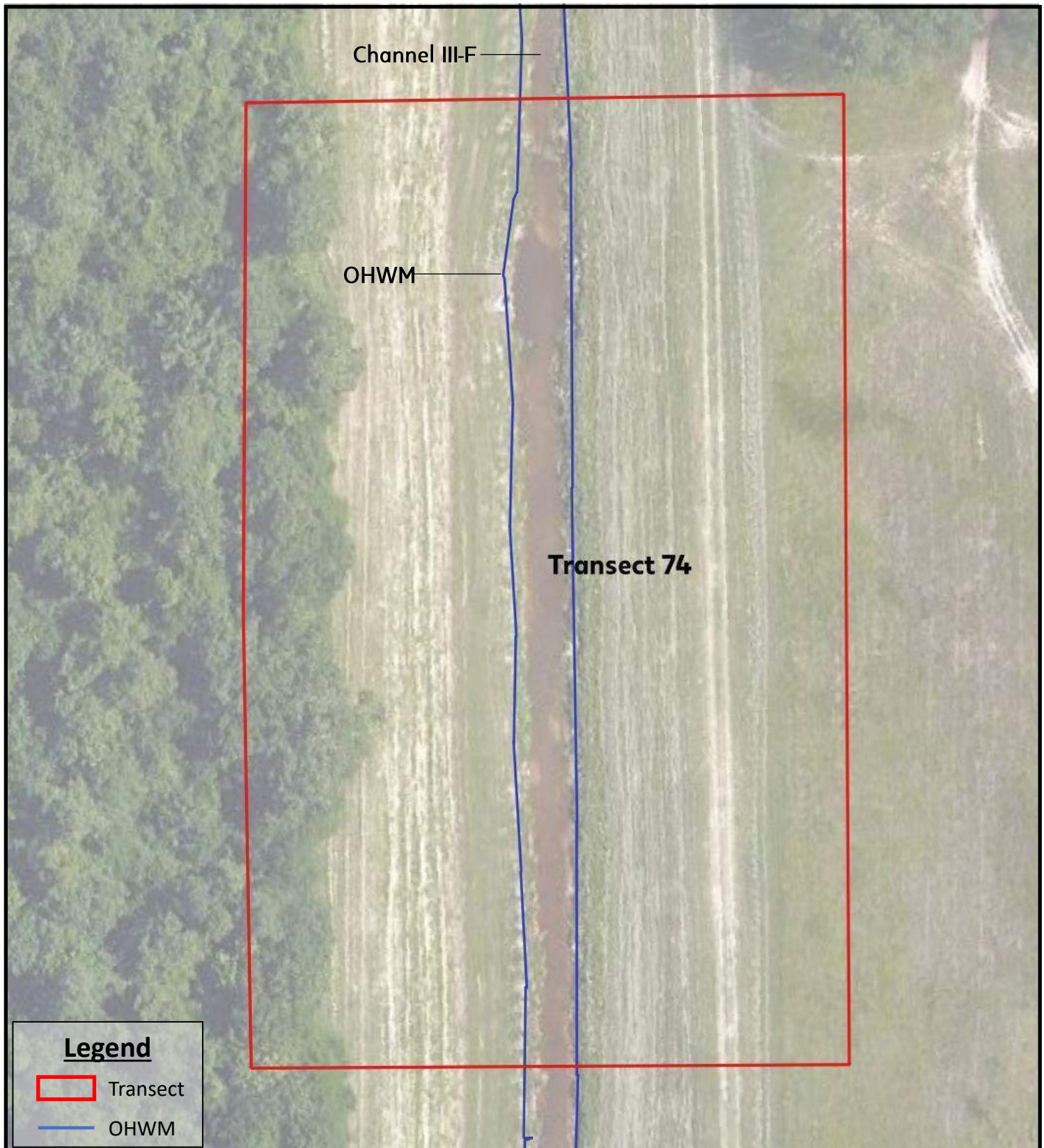


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-F  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/3/2018

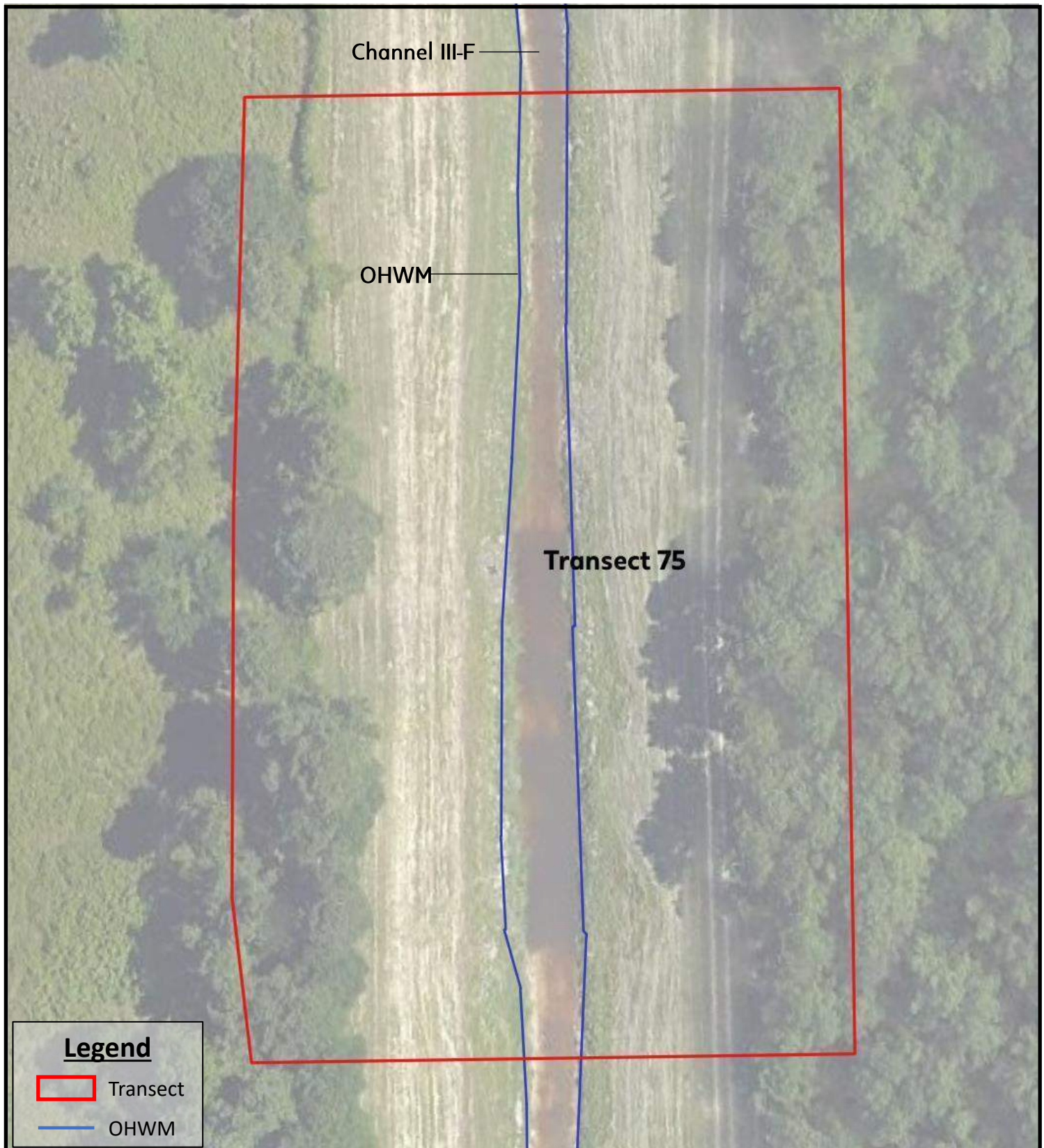


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-F  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/3/2018

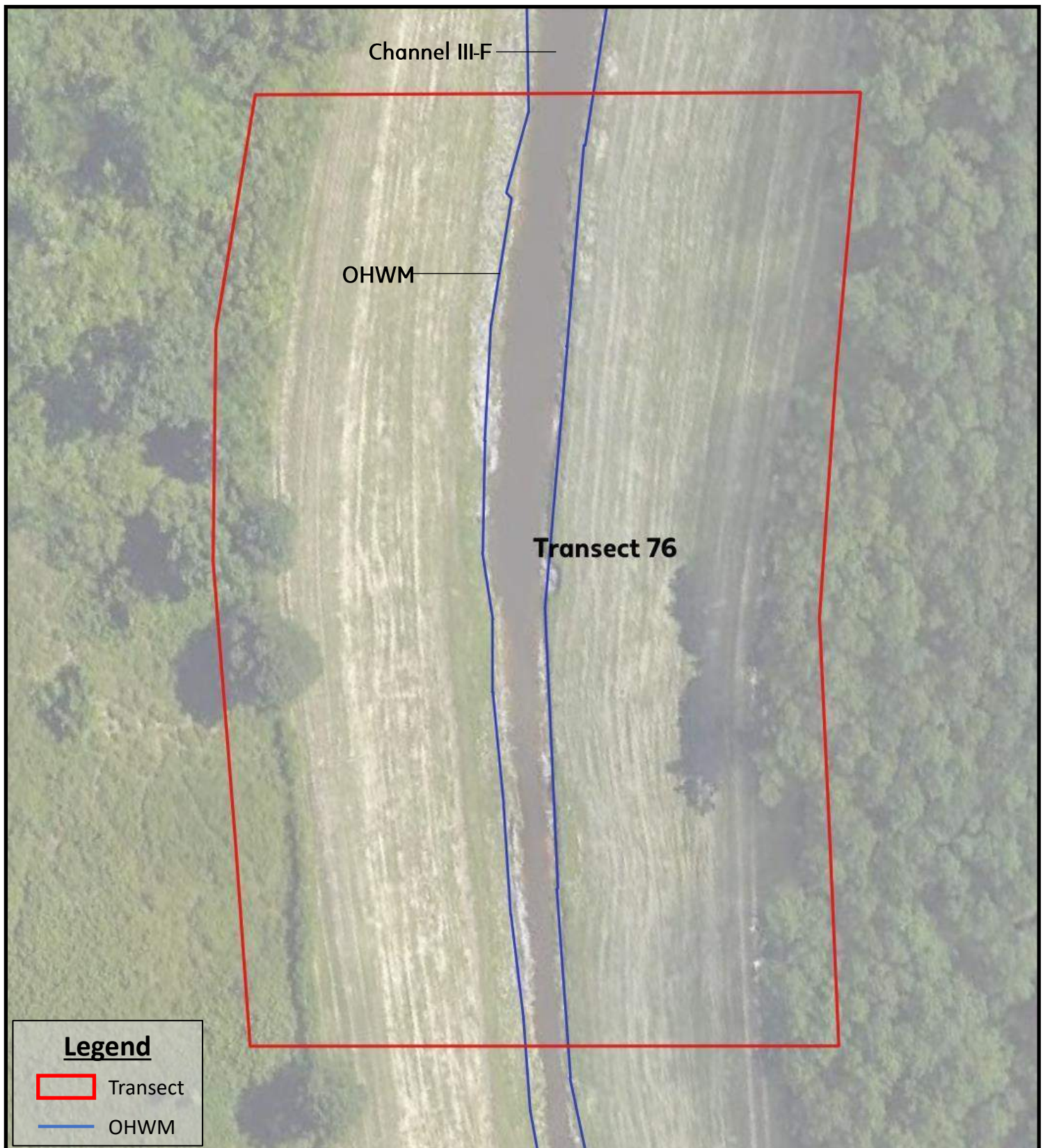


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-F  
Spring, Montgomery County, TX

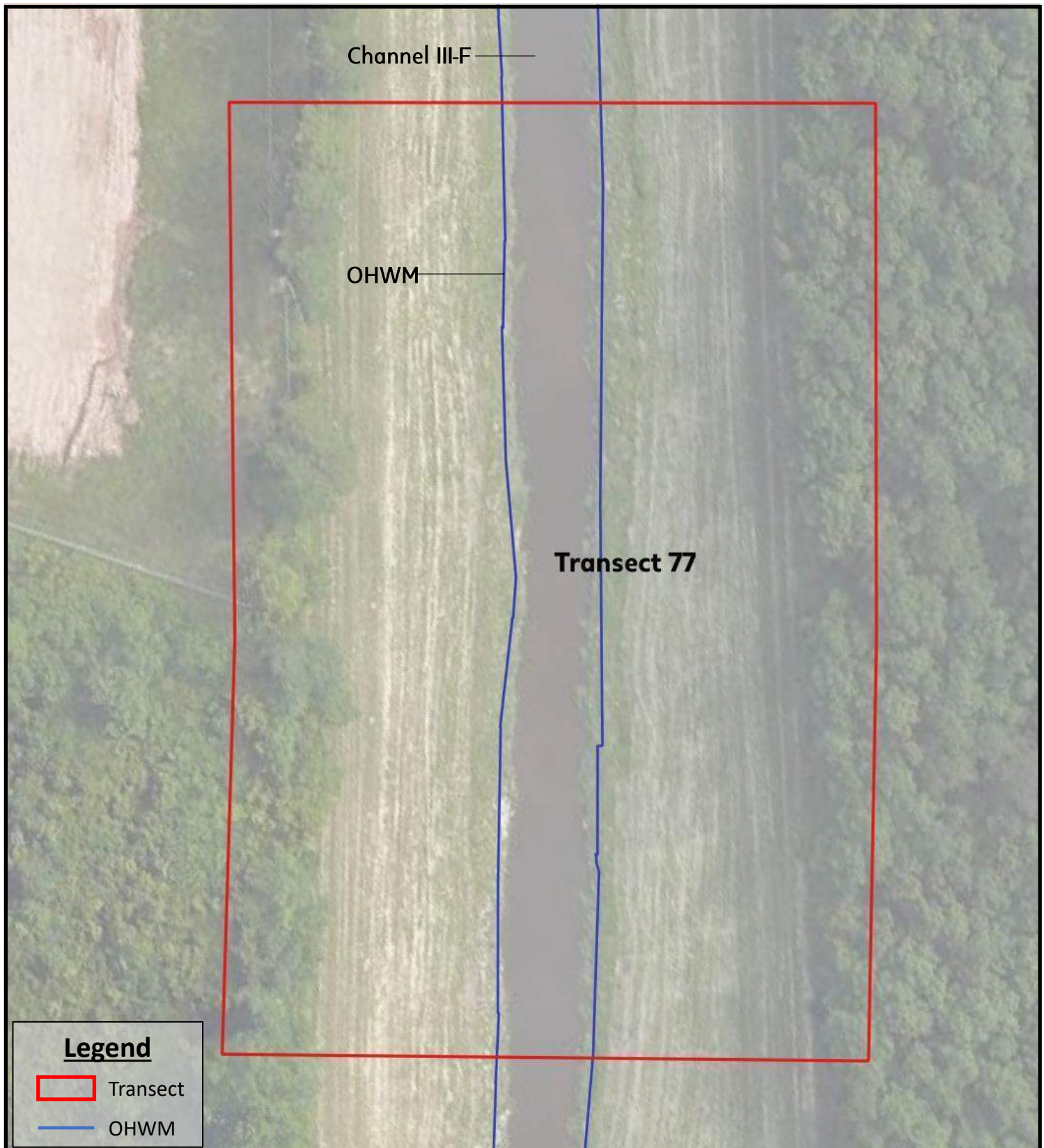
**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/3/2018



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6



### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-F  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/3/2018

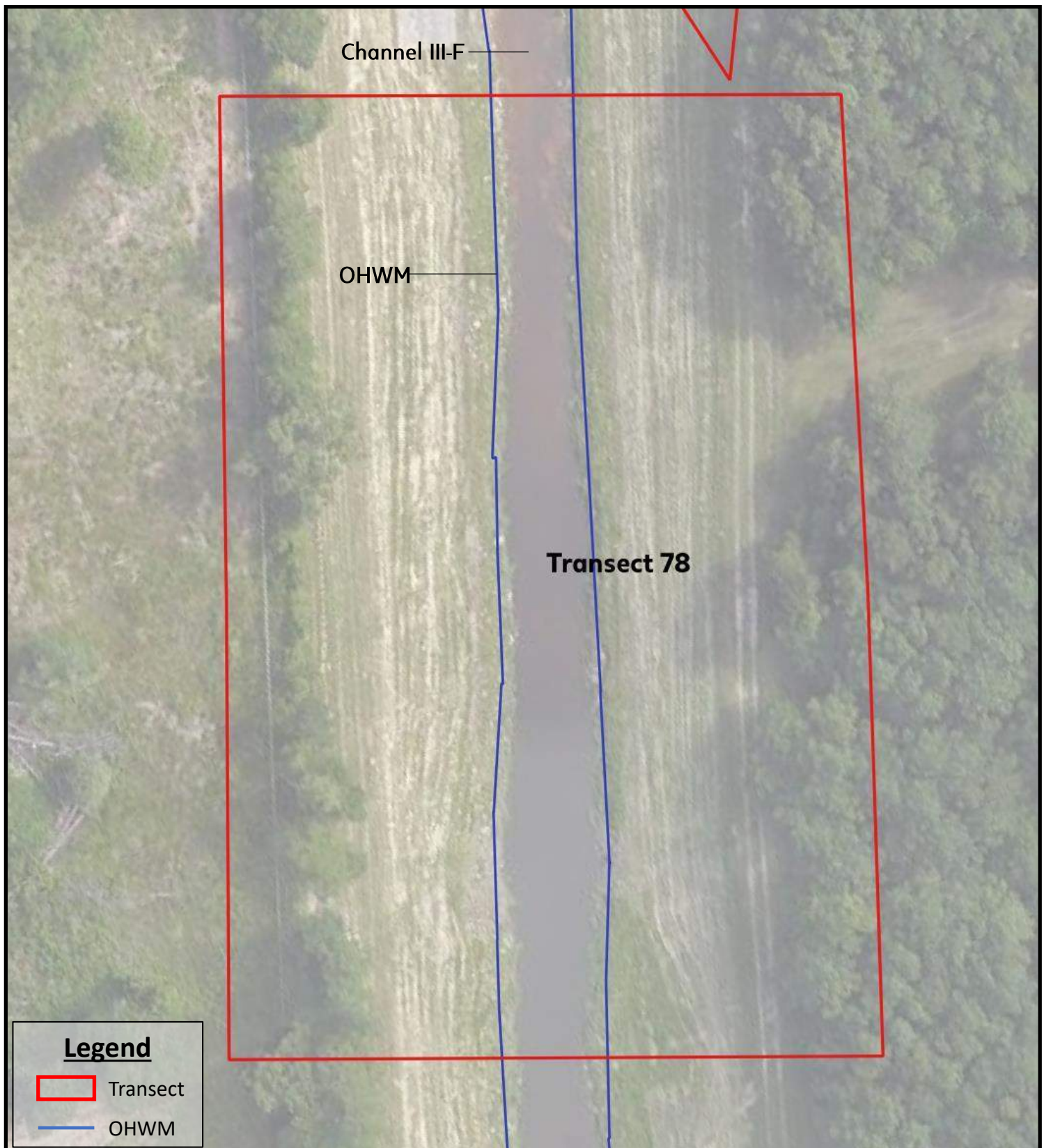


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





Project:  
Stream Condition Assessment  
Channel III-F  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/3/2018

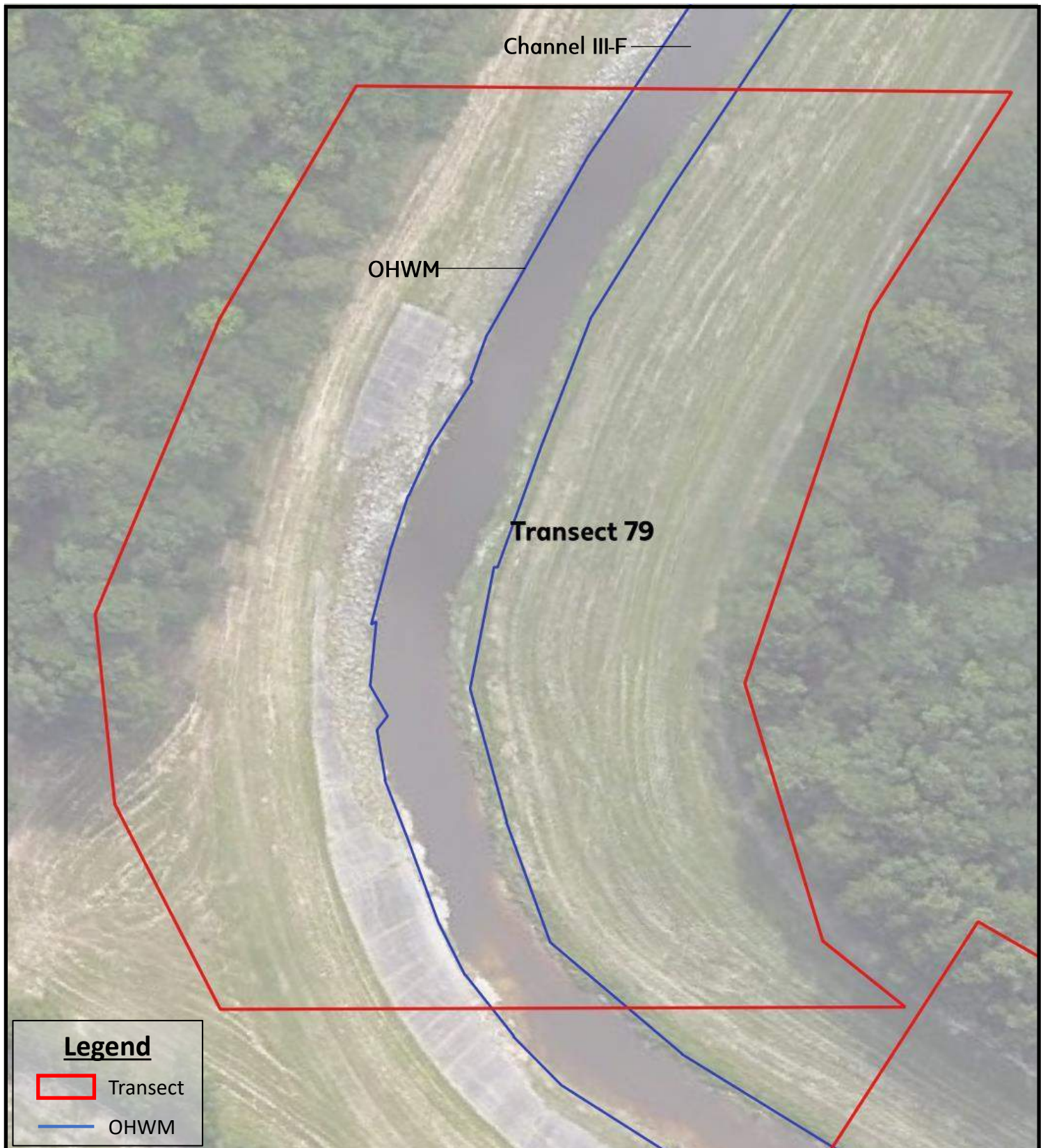


Scale: 1 in. ≈ 50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-F  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/3/2018

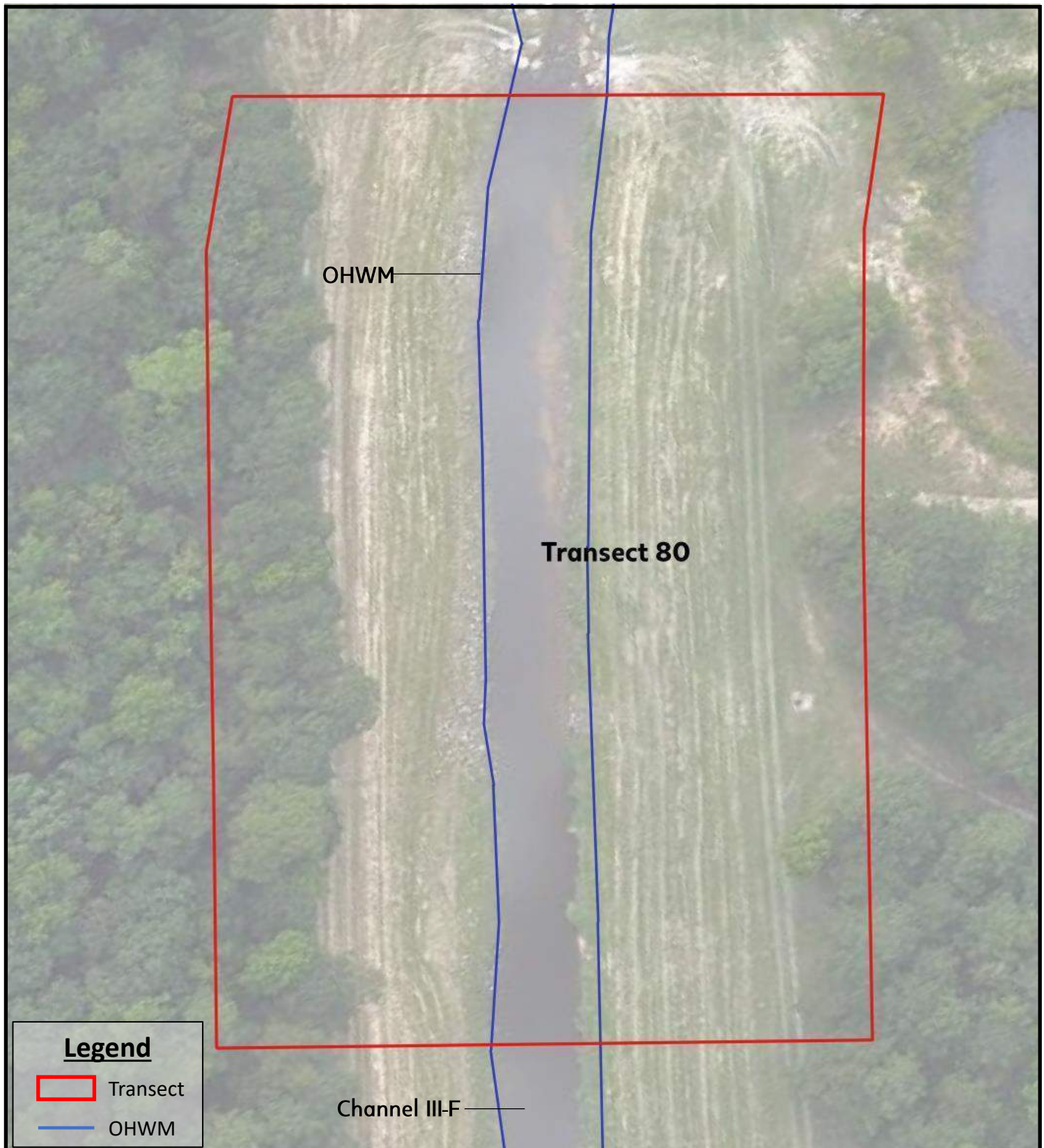


Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6





### Legend

- Transect
- OHWM

Project:  
Stream Condition Assessment  
Channel III-F  
Spring, Montgomery County, TX

**Channel III Transects**  
Base Map Source: Google Satellite  
Image Date 12/3/2018



Scale: 1 in.  $\approx$  50 ft

Project No.: 20.01.021

Client:  
Montgomery County Drainage  
District Number 6

## Appendix F: Site Photographs





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-1

Applicant: MCDD6

Stream Name: Channel III-A

Page 1152 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-2

Applicant: MCDD6

Stream Name: Channel III-A

Page 1153 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-3

Applicant: MCDD6

Stream Name: Channel III-A

Page 1154 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-4

Applicant: MCDD6

Stream Name: Channel III-A

Page 1155 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-5

Applicant: MCDD6

Stream Name: Channel III-A

Page 1156 of 1480







File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-6

Applicant: MCDD6

Stream Name: Channel III-A

Page 1157 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-7

Applicant: MCDD6

Stream Name: Channel III-A

Page 1158 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-8

Applicant: MCDD6

Stream Name: Channel III-A

Page 1159 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-9

Applicant: MCDD6

Stream Name: Channel III-A

Page 1160 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

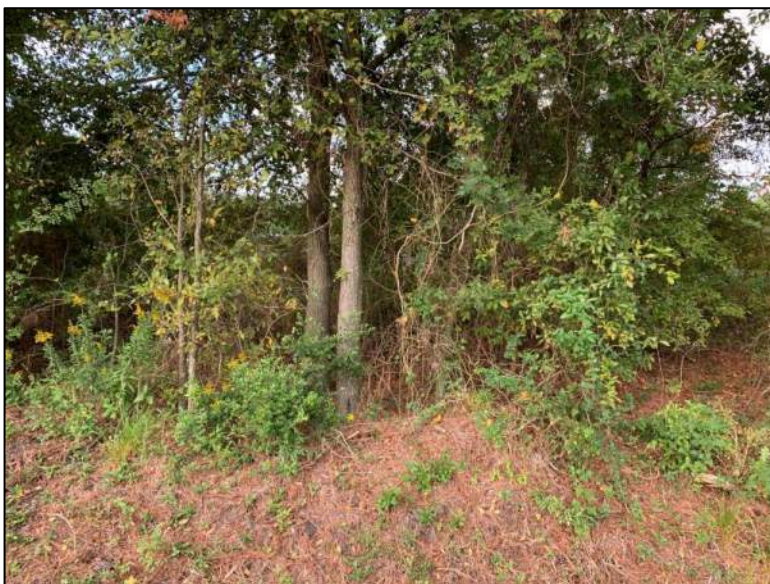
Transect Number: T-10

Applicant: MCDD6

Stream Name: Channel III-A

Page 1161 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-11

Applicant: MCDD6

Stream Name: Channel III-A & C

Page 1162 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-12

Applicant: MCDD6

Stream Name: Channel III-C

Page 1163 of 1480







File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-13

Applicant: MCDD6

Stream Name: Channel III-C

Page 1164 of 1480







File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-14

Applicant: MCDD6

Stream Name: Channel III-C

Page 1165 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-15

Applicant: MCDD6

Stream Name: Channel III-C

Page 1166 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-16

Applicant: MCDD6

Stream Name: Channel III-C

Page 1167 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-17

Applicant: MCDD6

Stream Name: Channel III-C

Page 1168 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-18

Applicant: MCDD6

Stream Name: Channel III-C

Page 1169 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-19

Applicant: MCDD6

Stream Name: Channel III-C

Page 1170 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-20

Applicant: MCDD6

Stream Name: Channel III-C

Page 1171 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-21

Applicant: MCDD6

Stream Name: Channel III-C

Page 1172 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-22

Applicant: MCDD6

Stream Name: Channel III-C

Page 1173 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-23

Applicant: MCDD6

Stream Name: Channel III-C

Page 1174 of 1480









File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-25

Applicant: MCDD6

Stream Name: Channel III-C

Page 1176 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-26

Applicant: MCDD6

Stream Name: Channel III-C

Page 1177 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-27

Applicant: MCDD6

Stream Name: Channel III-C

Page 1178 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-28

Applicant: MCDD6

Stream Name: Channel III-C

Page 1179 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-29

Applicant: MCDD6

Stream Name: Channel III-C

Page 1180 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-30

Applicant: MCDD6

Stream Name: Channel III-C

Page 1181 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-31

Applicant: MCDD6

Stream Name: Channel III-C

Page 1182 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-32

Applicant: MCDD6

Stream Name: Channel III-C

Page 1183 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-33

Applicant: MCDD6

Stream Name: Channel III-E

Page 1184 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-34

Applicant: MCDD6

Stream Name: Channel III-E

Page 1185 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-35

Applicant: MCDD6

Stream Name: Channel III-E

Page 1186 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-36

Applicant: MCDD6

Stream Name: Channel III-E

Page 1187 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-37

Applicant: MCDD6

Stream Name: Channel III-E

Page 1188 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-38

Applicant: MCDD6

Stream Name: Channel III-E

Page 1189 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-39

Applicant: MCDD6

Stream Name: Channel III-D

Page 1190 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-40

Applicant: MCDD6

Stream Name: Channel III-D

Page 1191 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-41

Applicant: MCDD6

Stream Name: Channel III-D

Page 1192 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-42

Applicant: MCDD6

Stream Name: Channel III-D

Page 1193 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-43

Applicant: MCDD6

Stream Name: Channel III-D

Page 1194 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-44

Applicant: MCDD6

Stream Name: Channel III-D

Page 1195 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-45

Applicant: MCDD6

Stream Name: Channel III-D

Page 1196 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-46

Applicant: MCDD6

Stream Name: Channel III-D

Page 1197 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-47

Applicant: MCDD6

Stream Name: Channel III-D

Page 1198 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-48

Applicant: MCDD6

Stream Name: Channel III-D

Page 1199 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-49

Applicant: MCDD6

Stream Name: Channel III-D

Page 1200 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-50

Applicant: MCDD6

Stream Name: Channel III-D

Page 1201 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-51

Applicant: MCDD6

Stream Name: Channel III-D

Page 1202 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-52

Applicant: MCDD6

Stream Name: Channel III-D

Page 1203 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-53

Applicant: MCDD6

Stream Name: Channel III-D

Page 1204 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-54

Applicant: MCDD6

Stream Name: Channel III-D

Page 1205 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

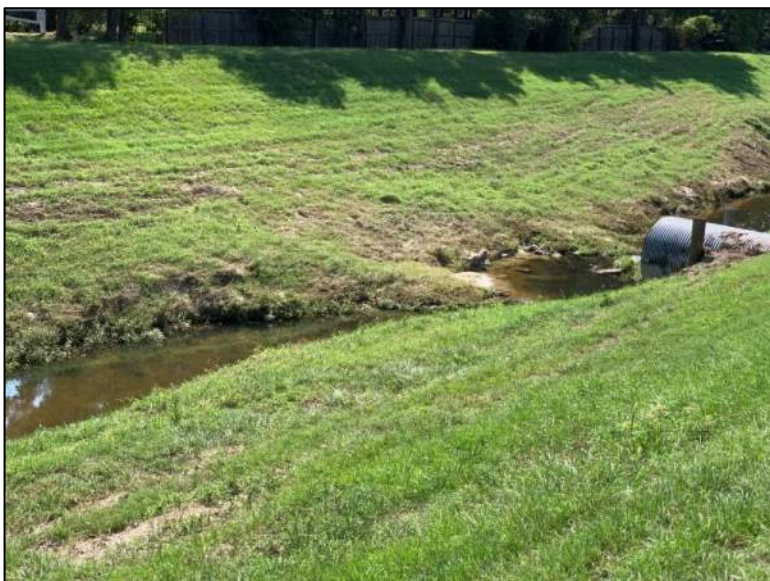
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Applicant: MCDD6

Stream Name: Channel III-D

Page 1206 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-56

Applicant: MCDD6

Stream Name: Channel III-D

Page 1207 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-57

Applicant: MCDD6

Stream Name: Channel III-D

Page 1208 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-58

Applicant: MCDD6

Stream Name: Channel III-D

Page 1209 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-59

Applicant: MCDD6

Stream Name: Channel III-D

Page 1210 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-60

Applicant: MCDD6

Stream Name: Channel III-D

Page 1211 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-61

Applicant: MCDD6

Stream Name: Channel III-D & F

Page 1212 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-62

Applicant: MCDD6

Stream Name: Channel III-F

Page 1213 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-63

Applicant: MCDD6

Stream Name: Channel III-F

Page 1214 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-64

Applicant: MCDD6

Stream Name: Channel III-F

Page 1215 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-65

Applicant: MCDD6

Stream Name: Channel III-F

Page 1216 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-66

Applicant: MCDD6

Stream Name: Channel III-F

Page 1217 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-67

Applicant: MCDD6

Stream Name: Channel III-F

Page 1218 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-68

Applicant: MCDD6

Stream Name: Channel III-F

Page 1219 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-69

Applicant: MCDD6

Stream Name: Channel III-F

Page 1220 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-70

Applicant: MCDD6

Stream Name: Channel III-F

Page 1221 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-71

Applicant: MCDD6

Stream Name: Channel III-F

Page 1222 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-72

Applicant: MCDD6

Stream Name: Channel III-F

Page 1223 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-73

Applicant: MCDD6

Stream Name: Channel III-F

Page 1224 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-74

Applicant: MCDD6

Stream Name: Channel III-F

Page 1225 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-75

Applicant: MCDD6

Stream Name: Channel III-F

Page 1226 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-76

Applicant: MCDD6

Stream Name: Channel III-F

Page 1227 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-77

Applicant: MCDD6

Stream Name: Channel III-F

Page 1228 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-78

Applicant: MCDD6

Stream Name: Channel III-F

Page 1229 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-79

Applicant: MCDD6

Stream Name: Channel III-F

Page 1230 of 1480





File Number: SWG-2018-00952

TRANSECT PHOTOGRAPHS

Transect Number: T-80

Applicant: MCDD6

Stream Name: Channel III-F

Page 1231 of 1480

## Appendix G: Theoretical Stream Condition Assessment Data Forms



Theoretical Reach Condition Index						
MCDD6 Channels III-A, III-C, III-D, III-E, and III-F						
Transect	1. CV - Channel Condition	2. BV - Riparian Buffers	3. AV - Channel Alteration	4. MV - In-Stream Macroinvertebrate Observation	5. FV - Regionalized Index of Biotic Integrity (Fish)	Condition Index
T-1	1.00	2.10	1.00	2.00	3.00	1.82
T-2	1.00	1.70	1.00	2.00	3.00	1.74
T-3	1.00	1.92	1.00	2.00	3.00	1.78
T-4	1.00	1.86	1.00	2.00	3.00	1.77
T-5	1.00	1.72	1.00	2.00	3.00	1.74
T-6	1.00	1.66	1.00	2.00	2.00	1.53
T-7	1.00	1.86	1.00	2.00	2.00	1.57
T-8	1.00	1.82	1.00	3.00	3.00	1.96
T-9	1.00	1.80	1.00	2.00	3.00	1.76
T-10	1.00	1.63	1.00	3.00	3.00	1.93
T-11	1.00	1.92	1.00	2.00	2.00	1.58
T-12	1.00	2.20	1.00	2.00	3.00	1.84
T-13	1.00	2.46	1.00	3.00	3.00	2.09
T-14	1.00	2.60	1.00	4.00	3.00	2.32
T-15	1.00	2.58	1.00	2.00	2.00	1.72
T-16	1.00	2.97	1.00	3.00	3.00	2.19
T-17	1.00	2.65	1.00	3.00	2.00	1.93
T-18	1.00	2.46	1.00	4.00	3.00	2.29
T-19	1.00	2.44	1.00	3.00	3.00	2.09
T-20	1.00	2.22	1.00	3.00	4.00	2.24
T-21	1.00	2.69	1.00	4.00	3.00	2.34
T-22	1.00	3.07	1.00	3.00	3.00	2.21
T-23	1.00	2.09	1.00	3.00	3.00	2.02
T-24	1.00	2.13	1.00	2.00	2.00	1.63
T-25	1.00	2.44	1.00	4.00	2.00	2.09
T-26	1.00	2.30	1.00	4.00	3.00	2.26
T-27	1.00	2.16	1.00	3.00	3.00	2.03
T-28	1.00	3.03	1.00	3.00	3.00	2.21
T-29	1.00	3.14	1.00	4.00	4.00	2.63
T-30	1.00	2.35	1.00	3.00	2.00	1.87
T-31	1.00	2.18	1.00	5.00	3.00	2.44
T-32	1.00	3.29	1.00	4.00	3.00	2.46
T-33	1.00	1.89	1.00	2.00	2.00	1.58
T-34	1.00	1.89	1.00	5.00	3.00	2.38
T-35	1.00	1.82	1.00	5.00	2.00	2.16
T-36	1.00	2.31	1.00	3.00	3.00	2.06
T-37	1.00	2.55	1.00	3.00	2.00	1.91
T-38	1.00	2.40	1.00	4.00	3.00	2.28
T-39	1.00	2.20	1.00	4.00	4.00	2.44
T-40	1.00	2.93	1.00	4.00	4.00	2.59
T-41	1.00	2.50	1.00	3.00	4.00	2.30



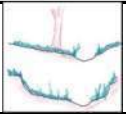
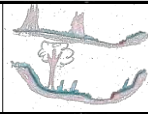
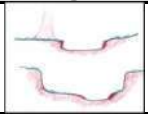
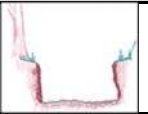
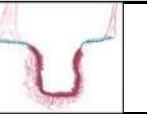
Transect	1. CV - Channel Condition	2. BV - Riparian Buffers	3. AV - Channel Alteration	4. MV - In-Stream Macroinvertebrate Observation	5. FV - Regionalized Index of Biotic Integrity (Fish)	Condition Index
T-42	1.00	2.00	1.00	4.00	3.00	2.20
T-43	1.00	1.84	1.00	4.00	4.00	2.37
T-44	1.00	1.94	1.00	4.00	2.00	1.99
T-45	1.00	1.77	1.00	2.00	2.00	1.55
T-46	1.00	1.95	1.00	3.00	2.00	1.79
T-47	1.00	1.96	1.00	3.00	4.00	2.19
T-48	1.00	1.96	1.00	4.00	4.00	2.39
T-49	1.00	1.88	1.00	4.00	4.00	2.38
T-50	1.00	1.90	1.00	3.00	2.00	1.78
T-51	1.00	1.97	1.00	3.00	2.00	1.79
T-52	1.00	1.98	1.00	3.00	3.00	2.00
T-53	1.00	1.99	1.00	3.00	3.00	2.00
T-54	1.00	2.22	1.00	2.00	3.00	1.84
T-55	1.00	2.17	1.00	3.00	3.00	2.03
T-56	1.00	2.09	1.00	4.00	4.00	2.42
T-57	1.00	2.23	1.00	4.00	4.00	2.45
T-58	1.00	2.11	1.00	2.00	3.00	1.82
T-59	1.00	2.28	1.00	3.00	3.00	2.06
T-60	1.00	2.01	1.00	2.00	3.00	1.80
T-61	1.00	1.58	1.00	2.00	3.00	1.72
T-62	1.00	2.35	1.00	3.00	2.00	1.87
T-63	1.00	2.16	1.00	3.00	2.00	1.83
T-64	1.00	2.38	1.00	3.00	3.00	2.08
T-65	1.00	2.33	1.00	3.00	3.00	2.07
T-66	1.00	2.16	1.00	3.00	4.00	2.23
T-67	1.00	2.48	1.00	3.00	3.00	2.10
T-68	1.00	1.98	1.00	3.00	3.00	2.00
T-69	1.00	1.98	1.00	4.00	2.00	2.00
T-70	1.00	2.08	1.00	2.00	3.00	1.82
T-71	1.00	2.47	1.00	2.00	2.00	1.69
T-72	1.00	2.44	1.00	2.00	2.00	1.69
T-73	1.00	2.43	1.00	2.00	2.00	1.69
T-74	1.00	2.43	1.00	2.00	3.00	1.89
T-75	1.00	2.97	1.00	2.00	2.00	1.79
T-76	1.00	2.52	1.00	2.00	2.00	1.70
T-77	1.00	2.65	1.00	4.00	2.00	2.13
T-78	1.00	2.53	1.00	2.00	2.00	1.71
T-79	1.00	2.12	1.00	2.00	3.00	1.82
T-80	1.00	2.58	1.00	2.00	2.00	1.72
Reach Condition Index						2.00

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-1
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of instability include the presence of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Concrete lined channel, trees, school driveway, houses, yards, channel partially sub-grade in culvert								
Right Bank	% Riparian Area	18%	42%	40%			100%	
	Score	1	2	4.5				
Left Bank	% Riparian Area	63%	37%				100%	Rt Bk CI > 2.82
	Score	1	2					Lt Bk CI > 1.37
							2.10	



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-1

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	392			
	Total		392			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				36		
				FV		
				3.00		

Notes: Collection method - seine 10/11/2020

Condition Index	1.82
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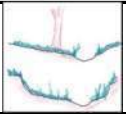
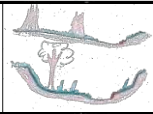
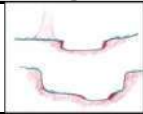
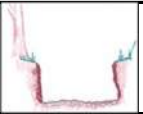
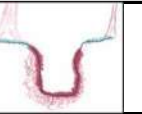


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-2
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, school parking lot & track, houses, pools, channel partially sub-grade, concrete lining

Right Bank	% Riparian Area	45%	55%				100%	
	Score	1	2					
Left Bank	% Riparian Area	16%	84%				100%	Rt Bk Cl > 1.55
	Score	1	2					Lt Bk Cl > 1.84

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-2

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 25% sub-grade culvert, 15% concrete lining/riprap, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Damselfly	Suborder Zygoptera	4	7	28	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	16	6	96	
	Lunged snail	Order Limnophila	7	7	49	
	Aquatic worm	Class Oligochaeta	2	8	16	
		Total	31		199	
HBI					6.42	2.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-2

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	312			
	Total		312			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				36		
				FV		
				3.00		

Notes: Collection method - seine 10/11/2020

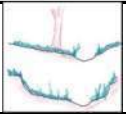
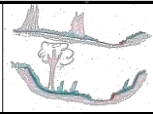
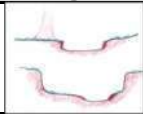
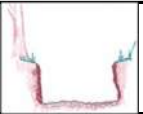
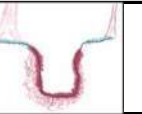
Condition Index	1.74
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-3
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, Oak Ridge School Rd. ditch, Soccer field, concrete lining at confluence

Right Bank	% Riparian Area	14%	86%				100%	
	Score	1	2					
Left Bank	% Riparian Area	3%	97%				100%	Rt Bk CI > 1.86
	Score	1	2					Lt Bk CI > 1.97



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-3

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 13% concrete lining, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Riffle beetle	Family Elmidae	1	3	3	
	Mayfly	Order Ephemeroptera	2	3	6	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	3	7	21	
	Whirligig Beetle	Family Gyrinidae	1	6	6	
	Scud	Order Amphipoda	16	6	96	
	Lunged snail	Order Limnophila	78	7	546	
	Aquatic worm	Class Oligochaeta	2	8	16	
		Total	104		699	
HBI					6.72	2.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-3

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	423			
	Total		423			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				36		
				FV		
				3.00		

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

Notes: Collection method - seine 10/11/2020

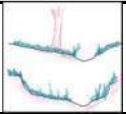
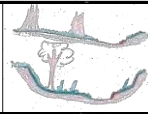
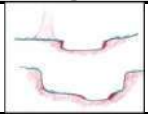
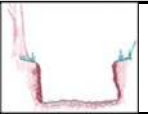
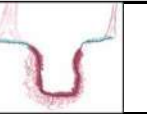
Condition Index 1.78

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-4
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, road, houses, pedestrian bridge, culverts

Right Bank	% Riparian Area	9%	91%				100%	
	Score	1	2					
Left Bank	% Riparian Area	19%	81%				100%	Rt Bk CI > 1.91
	Score	1	2					Lt Bk CI > 1.81





## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-4

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

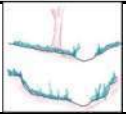
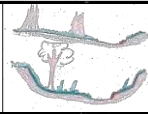
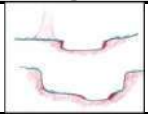
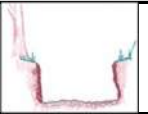
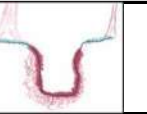
Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	405			
	Total		405			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				36		
				FV		
				3.00		

Notes: Collection method - seine 10/11/2020

Condition Index	1.77
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number		
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-5		
Name(s) of Evaluator(s)		Stream Name				
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A				
1. Channel Condition: Assess the cross-section of the stream and prevailing condition.						
Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	
						
	Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.	Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.	Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.	Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.	Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.	
Score	5	4	3	2	1	
Notes: No access to active floodplain, channelized, incision, erosional scars					CV 1.00	
2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.						
Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.	The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	
Notes: Maintained ROW, road, houses, pools, yards						
Right Bank	% Riparian Area	48%	52%			100%
	Score	1	2			
Left Bank	% Riparian Area	9%	91%			100%
	Score	1	2			
					Rt Bk CI >	1.52
					Lt Bk CI >	1.91
					BV	1.72

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-5

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 3 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	8	3	24	
	Mussel	Order Heterodonta	2	6	12	
	Crayfish	Family Cambaridae	2	5	10	
	Damselfly	Suborder Zygoptera	5	7	35	
	Dragonfly	Suborder Anisoptera	9	5	45	
	Scud	Order Amphipoda	30	6	180	
	Lunged snail	Order Limnophila	11	7	77	
		Total	67		383	
	HBI					
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-5

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	594			
	Total		594			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				36		
				FV		
				3.00		

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

Notes: Collection method - seine 10/11/2020

Condition Index 1.74

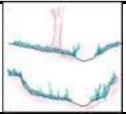
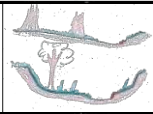
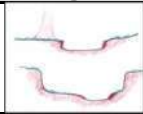
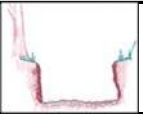
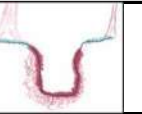


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-6
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, houses, pools, yards, parking lot, soccer field, concrete lining, riprap

Right Bank	% Riparian Area	30%	70%				100%	
	Score	1	2					
Left Bank	% Riparian Area	38%	62%				100%	Rt Bk CI > 1.7
	Score	1	2					Lt Bk CI > 1.62

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-6

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, concrete lining, riprap, 2 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	12	3	36	
	Damselfly	Suborder Zygoptera	5	7	35	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	105	6	630	
	Lunged snail	Order Limnophila	3	7	21	
		Total	126		727	
HBI					5.77	2.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020

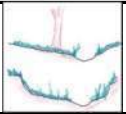
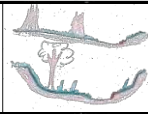
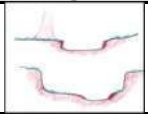
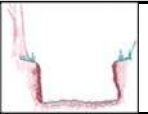
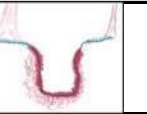


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-7
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniformed-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, houses, yards, soccer field, playground/school yard

Right Bank	% Riparian Area	28%	72%				100%	
	Score	1	2					
Left Bank	% Riparian Area	1%	99%				100%	Rt Bk CI > 1.72
	Score	1	2					Lt Bk CI > 1.99



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-7

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no access to floodplain

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Riffle beetle	Family Elmidae	1	3	3	
	Mayfly	Order Ephemeroptera	10	3	30	
	Caddisfly	Order Trichoptera	1	3	3	
	Mussel	Order Heterodonta	7	6	42	
	Damselfly	Suborder Zygoptera	10	7	70	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	41	6	246	
	Lunged snail	Order Limnophila	7	7	49	
	Leech	Order Hirudinea	1	8	8	
		Total	79		456	
HBI					5.77	2.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020

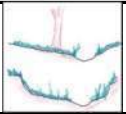
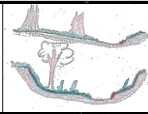
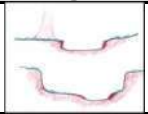
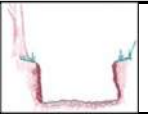
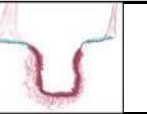


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-8
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, school, houses, yards, concrete lining, drop structure							
Right Bank	% Riparian Area	21%	79%				100%
	Score	1	2				
Left Bank	% Riparian Area	15%	85%				100%
	Score	1	2				
						Rt Bk CI >	1.79
						Lt Bk CI >	1.85
							1.82

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-8

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, riprap, 2 culverts, concrete drop structure, pipeline crossing footings, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	13	3	39	
	Gilled snail	Order Mesogastropoda	7	3	21	
	Damselfly	Suborder Zygoptera	3	7	21	
	Dragonfly	Suborder Anisoptera	6	5	30	
	Scud	Order Amphipoda	28	6	168	
		Total	57		279	
	<i>Melanoides tuberculata</i>	Family Thiaridae	3	none		
HBI					4.89	3.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-8

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	428			
	Total		428			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				36		
				FV		
				3.00		

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

Notes: Collection method - seine 10/11/2020

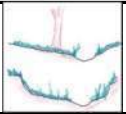
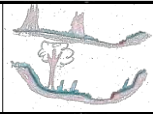
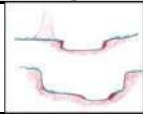
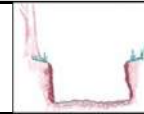
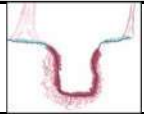
Condition Index 1.96

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-9
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, parking lots, concrete lining, road, bridge, sidewalks

Right Bank	% Riparian Area	24%	76%				100%	
	Score	1	2					
Left Bank	% Riparian Area	17%	83%				100%	Rt Bk CI > 1.76
	Score	1	2					Lt Bk CI > 1.83

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-9

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, riprap, box culverts

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	4	3	12	
	Gilled snail	Order Mesogastropoda	9	3	27	
	Mussel	Order Heterodonta	11	6	66	
	Damselfly	Suborder Zygoptera	13	7	91	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	31	6	186	
	Lunged snail	Order Limnophila	2	7	14	
	Aquatic worm	Class Oligochaeta	2	8	16	
		Total	74		422	
	<i>Melanoides tuberculata</i>	Family Thiaridae	1	none		
HBI					5.70	2.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-9

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	539			
	Total		539			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				36		
				FV		
				3.00		

Notes: Collection method - seine 10/11/2020

Condition Index	1.76
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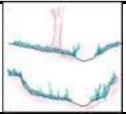
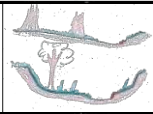
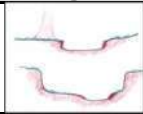
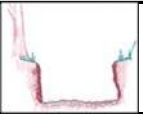
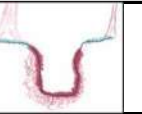


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-10
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, structures, parking lots, backyards

Right Bank	% Riparian Area	30%	70%				100%	
	Score	1	2					
Left Bank	% Riparian Area	45%	55%				100%	Rt Bk CI > 1.70
	Score	1	2					Lt Bk CI > 1.55

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-10

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Riffle beetle	Family Elmidae	2	3	6	
	Mayfly	Order Ephemeroptera	37	3	111	
	Gilled snail	Order Mesogastropoda	4	3	12	
	Mussel	Order Heterodonta	17	6	102	
	Crayfish	Family Cambaridae	2	5	10	
	Damselfly	Suborder Zygoptera	7	7	49	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Sowbug	Order Isopoda	2	9	18	
	Scud	Order Amphipoda	45	6	270	
	Lunged snail	Order Limnophila	5	7	35	
	Aquatic worm	Class Oligochaeta	1	8	8	
		Total	125		636	
	Melanoides tuberculata	Family Thiariidae	2	none		
	HBI					
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-10

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	821			
	Total		821			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				36		
				FV		
				3.00		

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

Notes: Collection method - seine 10/11/2020

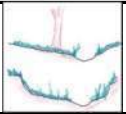
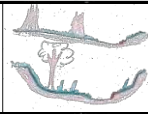
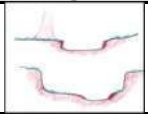
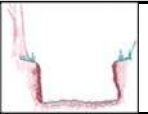
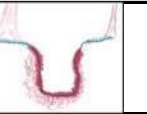
Condition Index 1.93

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-11
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-A & III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, gas station, mechanic shop, railroad crossing, Hanna Road, forested area

Right Bank	% Riparian Area	42%	43%	15%				100%	
	Score	1	2	4.5					
Left Bank	% Riparian Area	47%	39%	14%				100%	Rt Bk CI > 1.96
	Score	1	2	4.5					Lt Bk CI > 1.88



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-11

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, box culverts under Hanna Road, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	8	3	24	
	Caddisfly	Order Trichoptera	3	3	9	
	Mussel	Order Heterodonta	2	6	12	
	Damselfly	Suborder Zygoptera	2	7	14	
	Whirligig Beetle	Family Gyrinidae	1	6	6	
	Scud	Order Amphipoda	11	6	66	
	Lunged snail	Order Limnophila	58	7	406	
		Total	85		537	
	<i>Melanoides tuberculata</i>	Family Thiaridae	9	none		
HBI					6.32	2.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-11

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	128			
	Total		128			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				34		
				FV		
				2.00		

Notes: Collection method - seine 10/11/2020

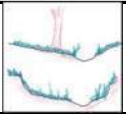
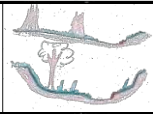
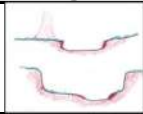
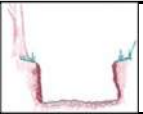
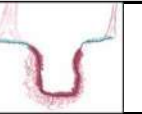
Condition Index	1.58
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-12
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, park/baseball field, parking lot, forested railroad ROW

Right Bank	% Riparian Area	8%	70%	22%			100%	
	Score	1	2	4.5				
Left Bank	% Riparian Area	7%	93%				100%	Rt Bk CI > 2.47
	Score	1	2					Lt Bk CI > 1.93

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-12

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Riffle beetle	Family Elmidae	1	3	3	
	Mayfly	Order Ephemeroptera	17	3	51	
	Caddisfly	Order Trichoptera	4	3	12	
	Damselfly	Suborder Zygoptera	18	7	126	
	Dragonfly	Suborder Anisoptera	5	5	25	
	Scud	Order Amphipoda	30	6	180	
	Lunged snail	Order Limnophila	11	7	77	
		Total	86		474	
	HBI				5.51	2.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/11/2020	T-12

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Mosquitofish	<i>Gambusia affinis</i>	671			
	Total		671			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				36		
				FV		
				3.00		

Notes: Collection method - seine 10/11/2020

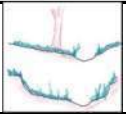
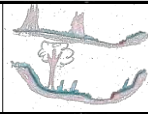
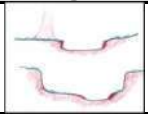
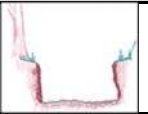
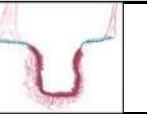
Condition Index	1.84
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-13
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, concrete drop structure, concrete intake structure, forested area, park								
Right Bank	% Riparian Area	3%	80%	17%			100%	
	Score	1	2	4.5				
Left Bank	% Riparian Area	3%	75%	22%			100%	Rt Bk CI > 2.40
	Score	1	2	4.5				Lt Bk CI > 2.52
							2.46	

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-13

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, concrete drop structure, riprap, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	21	3	63	
	Gilled snail	Order Mesogastropoda	5	3	15	
	Mussel	Order Heterodonta	5	6	30	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	7	7	49	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Scud	Order Amphipoda	14	6	84	
	Lunged snail	Order Limnophila	5	7	35	
	Freshwater shrimp	Family Palaemonidae	5	4	20	
		Total	66		316	
	<i>Melanoides tuberculata</i>	Family Thiaridae	3	none		
HBI					4.79	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-13

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Bluegill	<i>Lepomis macrochirus</i>	3				
	Bullhead Minnow	<i>Pimephales vigilax</i>	5				
	Golden Topminnow	<i>Fundulus chrysotus</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	312				
	Sailfin Molly	<i>Poecilia latipinna</i>	7				
		Total	329				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	3
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							FV
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						3.00
Notes: Collection method - seine 10/7/2020							

Condition Index 2.09

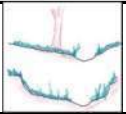
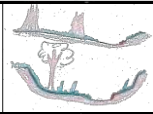
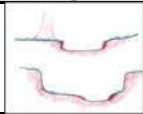
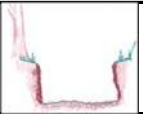
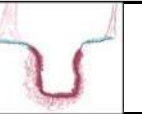


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-14
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, forested area, lay-down behind business

Right Bank	% Riparian Area	8%	67%	25%			100%	
	Score	1	2	4.5				
Left Bank	% Riparian Area	74%	26%				100%	Rt Bk CI > 2.55
	Score	2	4.5					Lt Bk CI > 2.65

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-14

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	2	3	6	
	Stonefly	Order Plecoptera	6	1	6	
	Dragonfly	Suborder Anisoptera	5	5	25	
	Scud	Order Amphipoda	6	6	36	
	Lunged snail	Order Limnophila	6	7	42	
	Freshwater shrimp	Family Palaemonidae	4	4	16	
		Total	29		131	
	HBI				4.52	4.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-14

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	3			
	Bluegill	<i>Lepomis macrochirus</i>	5			
	Bullhead Minnow	<i>Pimephales vigilax</i>	2			
	Golden Topminnow	<i>Fundulus chrysotus</i>	11			
	Green Sunfish	<i>Lepomis cyanellus</i>	2			
	Mosquitofish	<i>Gambusia affinis</i>	205			
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1			
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	1			
	Sailfin Molly	<i>Poecilia latipinna</i>	108			
		Total	338			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				38		
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)			FV		
				3.00		

Notes: Collection method - seine 10/7/2020

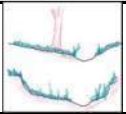
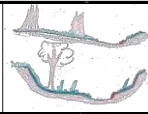
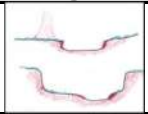
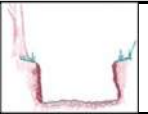
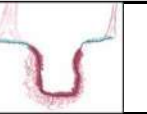
Condition Index	2.32
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-15
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, grazing, commercial storage containers, forested areas							
Right Bank	% Riparian Area	7%	60%	33%			100%
	Score	1	2	4.5			
Left Bank	% Riparian Area	84%	16%			100%	Rt Bk Cl > 2.76
	Score	2	4.5				Lt Bk Cl > 2.40
							2.58



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-15

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	12	3	36	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	10	7	70	
	Dragonfly	Suborder Anisoptera	6	5	30	
	Scud	Order Amphipoda	31	6	186	
	Lunged snail	Order Limnophila	8	7	56	
	Freshwater shrimp	Family Palaemonidae	6	4	24	
		Total	74		407	
	HBI				5.50	2.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-15

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity			
	Bluegill	<i>Lepomis macrochirus</i>	3			
	Creek Chubsucker	<i>Erimyzon oblongus</i>	1			
	Golden Topminnow	<i>Fundulus chrysotus</i>	5			
	Mosquitofish	<i>Gambusia affinis</i>	364			
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1			
	Sailfin Molly	<i>Poecilia latipinna</i>	79			
		Total	453			
	Ecoregion 35 - South Central Plains Region			Scores		
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1
	Total Number of fish species			See Table		
	Number of native cyprinid species			>4	2--4	<2
	Number of benthic invertivore sp.			>4	3--4	<3
	Number of sunfish species			>4	3--4	<3
	Number of intolerant species			>3	2--3	<2
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%
	Percent of individuals omnivores			<9%	9--16%	>16%
	Percent individuals invertivores			>65%	33--65%	<33%
	Percent individuals as piscivores			>9%	5--9%	<5%
	Number of individuals in the sample per seine haul			>28	14-28	<14
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%
				Aquatic Life Use Score		
				34		
				FV		
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)			2.00		

Notes: Collection method - seine 10/7/2020

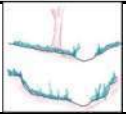
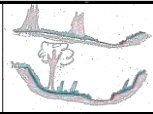
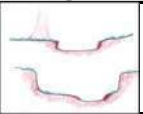
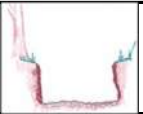
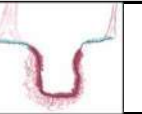
Condition Index	1.72
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-16
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Building, parking lot, maintained ROW, concrete lining, forested areas							
Right Bank	% Riparian Area	12%	49%	39%			100%
	Score	1	2	4.5			
Left Bank	% Riparian Area	7%	47%	46%			100%
	Score	1	2	4.5			
						Rt Bk CI >	2.86
						Lt Bk CI >	3.08
							2.97

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-16

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	14	3	42	
	Mussel	Order Heterodonta	18	6	108	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	32	6	192	
	Lunged snail	Order Limnophila	6	7	42	
	Freshwater shrimp	Family Palaemonidae	27	4	108	
		Total	98		497	
	<i>Melanoides tuberculata</i>	Family Thiaridae	1	none		
HBI					5.07	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-16

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	25				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	43				
	Bluegill	<i>Lepomis macrochirus</i>	45				
	Creek Chubsucker	<i>Erimyzon oblongus</i>	4				
	Golden Topminnow	<i>Fundulus chrysotus</i>	4				
	Green Sunfish	<i>Lepomis cyanellus</i>	11				
	Largemouth Bass	<i>Micropterus salmoides</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	509				
	Redbreast Sunfish	<i>Lepomis auritus</i>	1				
	Redear Sunfish	<i>Lepomis microlophus</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	12				
	Sailfin Molly	<i>Poecilia latipinna</i>	392				
	Total	Total	1049				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			5
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	5
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	3
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						3.00

Notes: Collection method - seine 10/7/2020

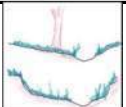
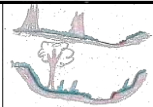
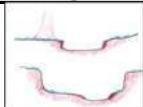
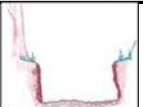
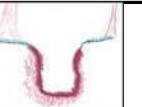
Condition Index 2.19

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-17
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, parking lot/lay-down yard, concrete intake structure, forested area							
Right Bank	% Riparian Area	10%	56%	34%			100%
	Score	1	2	4.5			
Left Bank	% Riparian Area	78%	22%			100%	Rt Bk CI > 2.75
	Score	2	4.5				Lt Bk CI > 2.55
							2.65

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-17

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	40	3	120	
	Damselfly	Suborder Zygoptera	3	7	21	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	37	6	222	
	Lunged snail	Order Limnophila	7	7	49	
	Freshwater shrimp	Family Palaemonidae	15	4	60	
		Total	103		477	
	HBI				4.63	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-17

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	1				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	4				
	Golden Topminnow	<i>Fundulus chrysotus</i>	4				
	Mosquitofish	<i>Gambusia affinis</i>	422				
	Redfin Pickerel	<i>Esox americanus</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	1				
	Sailfin Molly	<i>Poecilia latipinna</i>	85				
		Total	518				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			34
							<b>FV</b>

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

2.00

Notes: Collection method - seine 10/7/2020

Condition Index 1.93

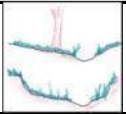
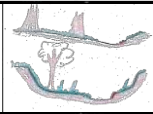
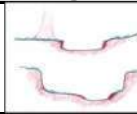
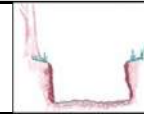
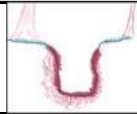


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-18
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, building, parking lot, forested area, concrete intake structures

Right Bank	% Riparian Area	20%	80%				100%	
	Score	1	2					
Left Bank	% Riparian Area	55%	45%				100%	Rt Bk CI > 1.80
	Score	2	4.5					Lt Bk CI > 3.13

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-18

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	24	3	72	
	Damselfly	Suborder Zygoptera	1	7	7	
	Scud	Order Amphipoda	5	6	30	
	Lunged snail	Order Limnophila	7	7	49	
	Freshwater shrimp	Family Palaemonidae	48	4	192	
		Total	85		350	
				HBI	4.12	4.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-18

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	12				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	34				
	Bluegill	<i>Lepomis macrochirus</i>	37				
	Creek Chubsucker	<i>Erimyzon oblongus</i>	1				
	Golden Topminnow	<i>Fundulus chrysotus</i>	3				
	Green Sunfish	<i>Lepomis cyanellus</i>	25				
	Largemouth bass	<i>Micropterus salmoides</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	474				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	3				
	Sailfin Molly	<i>Poecilia latipinna</i>	192				
		Total	783				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			5
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	5
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			40
							<b>FV</b>

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

3.00

Notes: Collection method - seine 10/7/2020

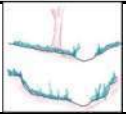
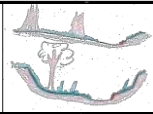
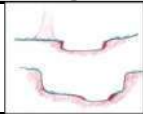
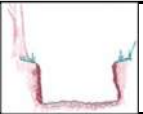
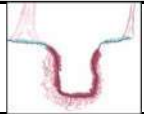
Condition Index 2.29

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-19
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniformed-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, building, parking lot, riprap, drainage ditch, forested area								
Right Bank	% Riparian Area	22%	78%				100%	
	Score	1	2					
Left Bank	% Riparian Area	2%	53%	45%			100%	Rt Bk CI > 1.78
	Score	1	2	4.5				Lt Bk CI > 3.11
							2.44	



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-19

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap at confluence with ditch, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	27	3	81	
	Damselfly	Suborder Zygoptera	13	7	91	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	4	6	24	
	Lunged snail	Order Limnophila	15	7	105	
	Freshwater shrimp	Family Palaemonidae	25	4	100	
		Total	86		411	
HBI					4.78	3.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-19

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	14				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	27				
	Bluegill	<i>Lepomis macrochirus</i>	51				
	Creek Chubsucker	<i>Erimyzon oblongus</i>	5				
	Golden Topminnow	<i>Fundulus chrysotus</i>	8				
	Longear Sunfish	<i>Lepomis megalotis</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	394				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	14				
	Sailfin Molly	<i>Poecilia latipinna</i>	232				
		Total	747				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			36
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						3.00

Notes: Collection method - seine 10/7/2020

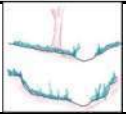
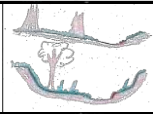
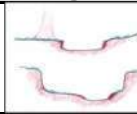
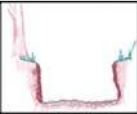
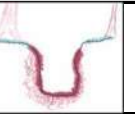
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-20
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, residential yards, fire station, trees, dirt driveway

Right Bank	% Riparian Area	14%	86%				100%	
	Score	1	2					
Left Bank	% Riparian Area	5%	70%	25%			100%	Rt Bk CI > 1.86
	Score	1	2	4.5				Lt Bk CI > 2.575

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-20

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Riffle beetle	Family Elmidae	1	3	3	
	Mayfly	Order Ephemeroptera	28	3	84	
	Gilled snail	Order Mesogastropoda	5	3	15	
	Damselfly	Suborder Zygoptera	6	7	42	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	28	6	168	
	Lunged snail	Order Limnophila	12	7	84	
	Freshwater shrimp	Family Palaemonidae	64	4	256	
		Total	146		662	
	<i>Melanoides tuberculata</i>	Family Thiaridae	8	none		
HBI					4.53	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-20

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	8				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	46				
	Bluegill	<i>Lepomis macrochirus</i>	4				
	Brook Silversides	<i>Labidesthes sicculus</i>	1				
	Golden Topminnow	<i>Fundulus chrysotus</i>	6				
	Mosquitofish	<i>Gambusia affinis</i>	193				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	3				
	Sailfin Molly	<i>Poecilia latipinna</i>	3				
		Total	264				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			42
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

Notes: Collection method - seine 10/7/2020

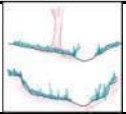
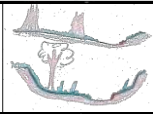
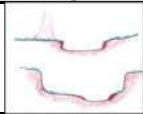
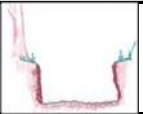
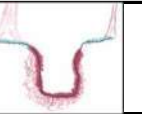
Condition Index	2.24
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-21
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested area, structures							
Right Bank	% Riparian Area	4%	62%	34%			100%
	Score	1	2	4.5			
Left Bank	% Riparian Area	4%	72%	24%			100%
	Score	1	2	4.5			
						Rt Bk CI >	2.81
						Lt Bk CI >	2.56
							2.69

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-21

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, riprap, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	43	3	129	
	Damselfly	Suborder Zygoptera	3	7	21	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Scud	Order Amphipoda	3	6	18	
	Lunged snail	Order Limnophila	5	7	35	
	Freshwater shrimp	Family Palaemonidae	59	4	236	
		Total	116		454	
				HBI	3.91	4.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-21

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	26				
	Bluegill	<i>Lepomis macrochirus</i>	2				
	Green Sunfish	<i>Lepomis cyanellus</i>	3				
	Mosquitofish	<i>Gambusia affinis</i>	36				
	Redfin Pickerel	<i>Esox americanus</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	6				
	Sailfin Molly	<i>Poecilia latipinna</i>	32				
	Weed Shiner	<i>Notropis texanus</i>	1				
		Total	107				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			36
							FV
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						3.00

Notes: Collection method - seine 10/7/2020

Condition Index	2.34
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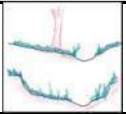
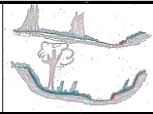
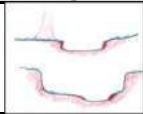
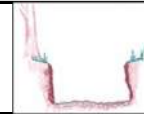
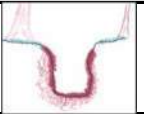


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-22
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested areas, concrete lining							
Right Bank	% Riparian Area	56%	44%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	1%	57%	42%			100%
	Score	1	2	4.5			
						Rt Bk CI >	3.10
						Lt Bk CI >	3.04
							3.07

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-22

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable effects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	24	3	72	
	Damselfly	Suborder Zygoptera	2	7	14	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Scud	Order Amphipoda	7	6	42	
	Lunged snail	Order Limnophila	21	7	147	
	Freshwater shrimp	Family Palaemonidae	29	4	116	
		Total	86		406	
	HBI				4.72	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-22

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	30				
	Golden Topminnow	<i>Fundulus chrysotus</i>	1				
	Green Sunfish	<i>Lepomis cyanellus</i>	1				
	Largemouth bass	<i>Micropterus salmoides</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	45				
	Sailfin Molly	<i>Poecilia latipinna</i>	10				
		Total	88				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			36
							FV
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						3.00

Notes: Collection method - seine 10/7/2020

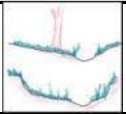
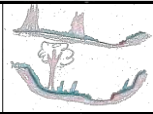
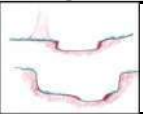
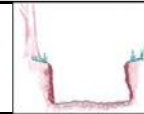
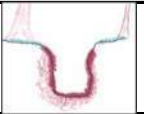
Condition Index	2.21
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-23
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, trees, horse stables/pasture							
Right Bank	% Riparian Area	77%	23%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	39%	61%				100%
	Score	1	2				
						Rt Bk CI >	2.58
						Lt Bk CI >	1.61
							2.09



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-23

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 3 culverts, riprap, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Riffle beetle	Family Elmidae	1	3	3	
	Mayfly	Order Ephemeroptera	24	3	72	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	2	7	14	
	Whirligig Beetle	Family Gyrinidae	1	6	6	
	Lunged snail	Order Limnophila	27	7	189	
	Freshwater shrimp	Family Palaemonidae	17	4	68	
		Total	73		357	
				HBI	4.89	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-23

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy	<i>Elassoma zonatum</i>	8				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	1				
	Golden Topminnow	<i>Fundulus chrysotus</i>	4				
	Largemouth Bass	<i>Micropterus</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	147				
	Orangespotted	<i>Lepomis humilis</i>	1				
	Sailfin Molly	<i>Poecilia latipinna</i>	62				
	Weed Shiner	<i>Notropis texanus</i>	2				
		Total	227				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			36
							FV

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

3.00

Notes: Collection method - seine 10/7/2020

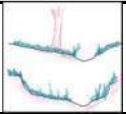
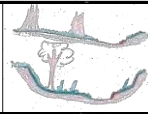
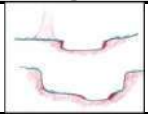
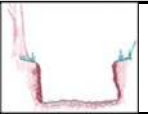
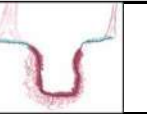
Condition Index 2.02

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-24
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, mobile home park, waste water treatment plant, metal buildings

Right Bank	% Riparian Area	8%	92%				100%	
	Score	1	2					
Left Bank	% Riparian Area	9%	74%	17%			100%	Rt Bk CI > 1.92
	Score	1	2	4.5				Lt Bk CI > 2.34

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-24

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	5	3	15	
	Gilled snail	Order Mesogastropoda	2	3	6	
	Mussel	Order Heterodonta	2	6	12	
	Damselfly	Suborder Zygoptera	2	7	14	
	Dragonfly	Suborder Anisoptera	8	5	40	
	Scud	Order Amphipoda	3	6	18	
	Lunged snail	Order Limnophila	7	7	49	
	Aquatic worm	Class Oligochaeta	4	8	32	
	Freshwater shrimp	Family Palaemonidae	1	4	4	
		Total	34		190	
HBI					5.59	2.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020



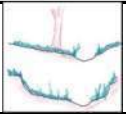
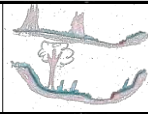
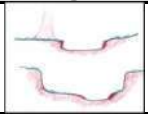
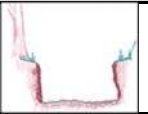
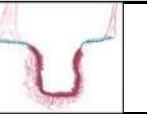


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-25
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, trees, pasture								
Right Bank	% Riparian Area	75%	25%				100%	
	Score	2	4.5					
Left Bank	% Riparian Area	90%	10%				100%	Rt Bk CI > 2.63
	Score	2	4.5					Lt Bk CI > 2.25
								2.44

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-25

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	7	3	21	
	Mussel	Order Heterodonta	2	6	12	
	Damselfly	Suborder Zygoptera	2	7	14	
	Dragonfly	Suborder Anisoptera	6	5	30	
	Scud	Order Amphipoda	3	6	18	
	Lunged snail	Order Limnophila	7	7	49	
	Freshwater shrimp	Family Palaemonidae	111	4	444	
		Total	138		588	
				HBI	4.26	4.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/7/2020	T-25

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	21				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	2				
	Largemouth Bass	<i>Micropterus salmoides</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	163				
	Sailfin Molly	<i>Poecilia latipinna</i>	43				
		Total	230				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	3
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			30
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

Notes: Collection method - seine 10/7/2020

Condition Index	2.09
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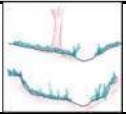
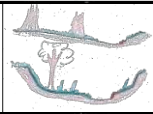
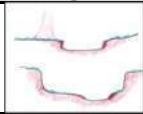
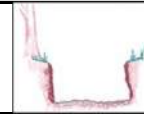
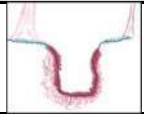


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-26
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested areas, pasture							
Right Bank	% Riparian Area	76%	24%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	100%					100%
	Score	2					
						Rt Bk CI >	2.60
						Lt Bk CI >	2.00
							2.30

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-26

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	3	3	9	
	Gilled snail	Order Mesogastropoda	2	3	6	
	Mussel	Order Heterodonta	5	6	30	
	Damselfly	Suborder Zygoptera	6	7	42	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	3	6	18	
	Lunged snail	Order Limnophila	5	7	35	
	Freshwater shrimp	Family Palaemonidae	90	4	360	
		Total	115		505	
HBI					4.39	4.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-26

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	42				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	4				
	Bluegill	<i>Lepomis macrochirus</i>	7				
	Green Sunfish	<i>Lepomis cyanellus</i>	4				
	Mosquitofish	<i>Gambusia affinis</i>	88				
	Orangespotted	<i>Lepomis humilis</i>	1				
	Redbreast Sunfish	<i>Lepomis auritus</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma</i>	2				
	Sailfin Molly	<i>Poecilia latipinna</i>	39				
		Total	188				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	5
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			40
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

Notes: Collection method - seine 10/6/2020

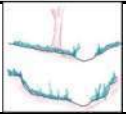
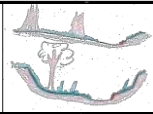
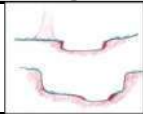
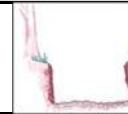
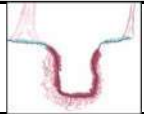
Condition Index	2.26
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-27
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, forested areas, backyard, riprap, concrete intake structure

Right Bank	% Riparian Area	87%	13%				100%	
	Score	2	4.5					
Left Bank	% Riparian Area	1%	99%				100%	Rt Bk Cl > 2.33
	Score	1	2					Lt Bk Cl > 1.99



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-27

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	13	3	39	
	Mussel	Order Heterodonta	2	6	12	
	Damselfly	Suborder Zygoptera	5	7	35	
	Dragonfly	Suborder Anisoptera	7	5	35	
	Whirligig Beetle	Family Gyrinidae	2	6	12	
	Scud	Order Amphipoda	12	6	72	
	Lunged snail	Order Limnophila	9	7	63	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	40	4	160	
		Total	91		436	
HBI					4.79	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-27

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	31				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	16				
	Bluegill	<i>Lepomis macrochirus</i>	8				
	Golden Topminnow	<i>Fundulus chrysotus</i>	4				
	Green Sunfish	<i>Lepomis cyanellus</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	42				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	3				
	Rio Grande Cichlid	<i>Cichlasoma</i>	2				
	Sailfin Molly	<i>Poecilia latipinna</i>	15				
		Total	122				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	3
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							FV

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

3.00

Notes: Collection method - seine 10/6/2020

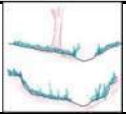
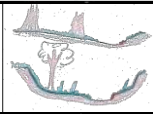
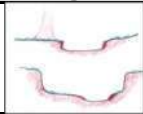
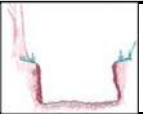
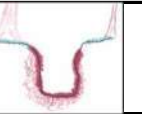
Condition Index 2.03

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-28
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested areas							
Right Bank	% Riparian Area	79%	21%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	39%	61%				100%
	Score	2	4.5				
						Rt Bk CI >	2.53
						Lt Bk CI >	3.53
							3.03

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-28

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap at ditch confluence, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	13	3	39	
	Mussel	Order Heterodonta	23	6	138	
	Damselfly	Suborder Zygoptera	4	7	28	
	Dragonfly	Suborder Anisoptera	5	5	25	
	Scud	Order Amphipoda	8	6	48	
	Lunged snail	Order Limnophila	7	7	49	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	81	4	324	
		Total	142		659	
HBI					4.64	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-28

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	34				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	1				
	Bluegill	<i>Lepomis macrochirus</i>	56				
	Brook Silversides	<i>Labidesthes sicculus</i>	1				
	Green Sunfish	<i>Lepomis cyanellus</i>	4				
	Mosquitofish	<i>Gambusia affinis</i>	31				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	18				
	Sailfin Molly	<i>Poecilia latipinna</i>	13				
		Total	159				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	7
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			40
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

Notes: Collection method - seine 10/6/2020

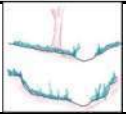
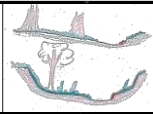
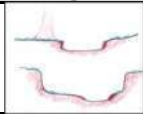
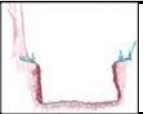
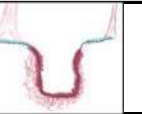
Condition Index	2.21
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-29
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested areas							
Right Bank	% Riparian Area	74%	26%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	35%	65%				100%
	Score	2	4.5				
						Rt Bk CI >	2.65
						Lt Bk CI >	3.63
							3.14

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-29

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	11	3	33	
	Mussel	Order Heterodonta	26	6	156	
	Damselfly	Suborder Zygoptera	2	7	14	
	Scud	Order Amphipoda	3	6	18	
	Lunged snail	Order Limnophila	1	7	7	
	Aquatic worm	Class Oligochaeta	1	8	8	
	Freshwater shrimp	Family Palaemonidae	99	4	396	
		Total	143		632	
				HBI	4.42	4.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-29

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	6				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	38				
	Bluegill	<i>Lepomis macrochirus</i>	8				
	Creek Chubsucker	<i>Erimyzon oblongus</i>	2				
	Green Sunfish	<i>Lepomis cyanellus</i>	2				
	Largemouth Bass	<i>Micropterus salmoides</i>	1				
	Longear Sunfish	<i>Lepomis megalotis</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	4				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	2				
	Rio Grande Cichlid	<i>Cichlasoma</i>	2				
	Sailfin Molly	<i>Poecilia latipinna</i>	4				
		Total	70				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			5
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	5
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			44
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

Notes: Collection method - seine 10/6/2020

Condition Index	2.63
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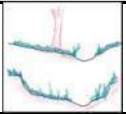
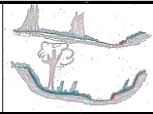
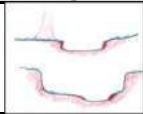
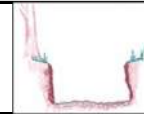
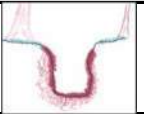


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-30
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested areas							
Right Bank	% Riparian Area	93%	7%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	79%	21%				100%
	Score	2	4.5				
						Rt Bk CI >	2.18
						Lt Bk CI >	2.53
							2.35

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-30

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	11	3	33	
	Gilled snail	Order Mesogastropoda	25	3	75	
	Mussel	Order Heterodonta	11	6	66	
	Damselfly	Suborder Zygoptera	8	7	56	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	9	6	54	
	Lunged snail	Order Limnophila	9	7	63	
	Freshwater shrimp	Family Palaemonidae	25	4	100	
		Total	100		457	
HBI					4.57	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-30

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	17				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	13				
	Bluegill	<i>Lepomis macrochirus</i>	2				
	Golden Topminnow	<i>Fundulus chrysotus</i>	2				
	Sailfin Molly	<i>Poecilia latipinna</i>	16				
		Total	50				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	3
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			28
							FV

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

2.00

Notes: Collection method - seine 10/6/2020

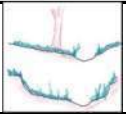
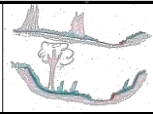
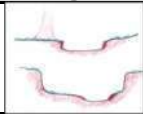
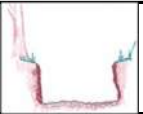
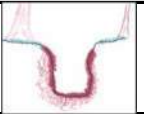
Condition Index 1.87

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-31
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, forested area								
Right Bank	% Riparian Area	86%	14%				100%	
	Score	2	4.5					
Left Bank	% Riparian Area	100%					100%	Rt Bk CI > 2.35
	Score	2						Lt Bk CI > 2.00
								2.18



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-31

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	15	3	45	
	Gilled snail	Order Mesogastropoda	103	3	309	
	Crayfish	Family Cambaridae	2	5	10	
	Damselfly	Suborder Zygoptera	2	7	14	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Lunged snail	Order Limnophila	7	7	49	
	Freshwater shrimp	Family Palaemonidae	5	4	20	
		Total	135		452	
				HBI	3.35	5.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-31

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	23				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	2				
	Golden Topminnow	<i>Fundulus chrysotus</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	28				
	Redear Sunfish	<i>Lepomis microlophus</i>	2				
	Sailfin Molly	<i>Poecilia latipinna</i>	4				
		Total	61				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						3.00

Notes: Collection method - seine 10/6/2020

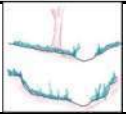
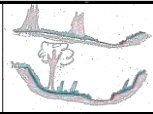
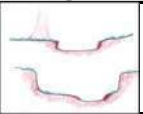
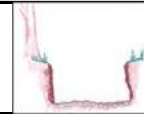
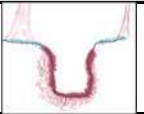
Condition Index	2.44
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-32
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-C		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested area							
Right Bank	% Riparian Area	79%	21%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	18%	82%				100%
	Score	2	4.5				
						Rt Bk CI >	2.53
						Lt Bk CI >	4.05
							3.29

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-32

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	11	3	33	
	Gilled snail	Order Mesogastropoda	57	3	171	
	Damselfly	Suborder Zygoptera	4	7	28	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	12	6	72	
	Lunged snail	Order Limnophila	6	7	42	
	Freshwater shrimp	Family Palaemonidae	13	4	52	
		Total	105		408	
	<i>Melanoides tuberculata</i>	Family Thiaridae	21	none		
HBI					3.89	4.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/6/2020	T-32

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	10				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	1				
	Bluegill	<i>Lepomis macrochirus</i>	9				
	Golden Topminnow	<i>Fundulus chrysotus</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	70				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	2				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	2				
	Sailfin Molly	<i>Poecilia latipinna</i>	11				
	Yellow Bullhead	<i>Ameiurus natalis</i>	1				
		Total	108				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	3
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			36
							<b>FV</b>

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

3.00

Notes: Collection method - seine 10/6/2020

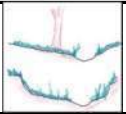
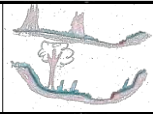
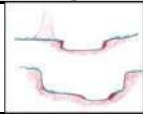
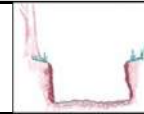
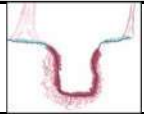
Condition Index 2.46

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-33
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-E		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, houses, backyards, gravel path, articulated blocks, geo fabric							
Right Bank	% Riparian Area	9%	91%				100%
	Score	1	2				
Left Bank	% Riparian Area	14%	86%				100%
	Score	1	2				
						Rt Bk CI >	1.91
						Lt Bk CI >	1.86
							1.89

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-33

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial articulated block, 3 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Gilled snail	Order Mesogastropoda	8	3	24	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	2	6	12	
	Lunged snail	Order Limnophila	15	7	105	
		Total	27		151	
	<i>Melanoides tuberculata</i>	Family Thiaridae	16	none		
HBI					5.59	2.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-33

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Bluegill	<i>Lepomis macrochirus</i>	19				
	Green Sunfish	<i>Lepomis cyanellus</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	27				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	3				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	3				
	Sailfin Molly	<i>Poecilia latipinna</i>	1				
		Total	54				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	3
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			34
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

Notes: Collection method - seine 10/5/2020

Condition Index	1.58
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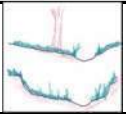
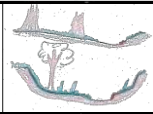
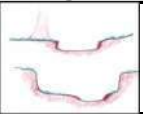
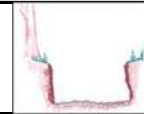
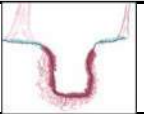


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-34
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-E		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, houses, gravel paths, houses, sidewalks, backyards

Right Bank	% Riparian Area	8%	92%				100%	
	Score	1	2					
Left Bank	% Riparian Area	14%	86%				100%	Rt Bk CI > 1.92
	Score	1	2					Lt Bk CI > 1.86

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-34

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	4	3	12	
	Gilled snail	Order Mesogastropoda	24	3	72	
	Mussel	Order Heterodonta	3	6	18	
	Damselfly	Suborder Zygoptera	4	7	28	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Scud	Order Amphipoda	2	6	12	
	Lunged snail	Order Limnophila	8	7		
		Total	48		157	
	<i>Melanoides tuberculata</i>	Family Thiaridae	16	none		
HBI					3.27	5.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

# Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-34

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	10				
	Bluegill	<i>Lepomis macrochirus</i>	4				
	Green Sunfish	<i>Lepomis cyanellus</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	10				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	8				
	Sailfin Molly	<i>Poecilia latipinna</i>	1				
		Total	35				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	3
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	3
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

Notes: Collection method - seine 10/5/2020

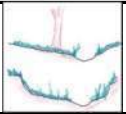
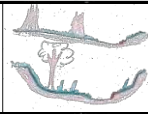
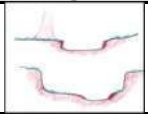
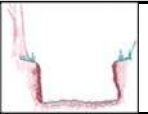
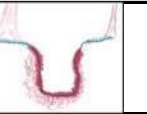
Condition Index	2.38
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-35
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-E		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, gravel paths, road, sidewalk, houses, concrete lining, backyards

Right Bank	% Riparian Area	13%	87%				100%	
	Score	1	2					
Left Bank	% Riparian Area	23%	77%				100%	Rt Bk CI > 1.87
	Score	1	2					Lt Bk CI > 1.77



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-35

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Gilled snail	Order Mesogastropoda	57	3	171	
	Mussel	Order Heterodonta	4	6	24	
	Damselfly	Suborder Zygoptera	3	7	21	
	Lunged snail	Order Limnophila	4	7	28	
		Total	68		244	
	<i>Melanoidea tuberculata</i>	Family Thiaridae	4	none		
HBI					3.59	5.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-35

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	1				
	Bluegill	<i>Lepomis macrochirus</i>	25				
	Longear Sunfish	<i>Lepomis megalotis</i>	5				
	Mosquitofish	<i>Gambusia affinis</i>	21				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	12				
		Total	64				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			32
							FV

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

2.00

Notes: Collection method - seine 10/5/2020

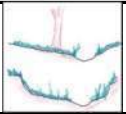
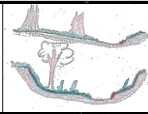
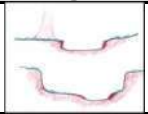
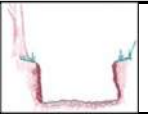
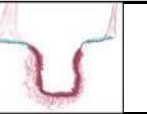
Condition Index 2.16

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-36
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-E		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, railroad bridge, concrete lining, concrete intake structures, house, forested areas

Right Bank	% Riparian Area	8%	77%	15%				100%	
	Score	1	2	4.5					
Left Bank	% Riparian Area	12%	70%	18%				100%	Rt Bk CI > 2.30
	Score	1	2	4.5					Lt Bk CI > 2.33

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-36

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 4 culverts, railroad bridge pile, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	11	3	33	
	Gilled snail	Order Mesogastropoda	43	3	129	
	Damselfly	Suborder Zygoptera	22	7	154	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Whirligig Beetle	Family Gyrinidae	1	6	6	
	Scud	Order Amphipoda	5	6	30	
	Lunged snail	Order Limnophila	13	7	91	
		Total	96		448	
	<i>Melanoides tuberculata</i>	Family Thiaridae	4	none		
HBI					4.67	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-36

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	2				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	19				
	Bluegill	<i>Lepomis macrochirus</i>	2				
	Brook Silversides	<i>Labidesthes sicculus</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	41				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	7				
	Sailfin Molly	<i>Poecilia latipinna</i>	2				
		Total	75				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							<b>FV</b>

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

3.00

Notes: Collection method - seine 10/5/2020

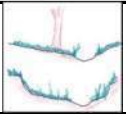
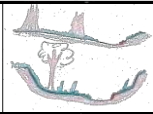
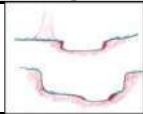
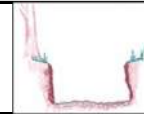
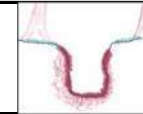
Condition Index 2.06

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-37
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-E		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, concrete lining, forested area							
Right Bank	% Riparian Area	7%	72%	21%			100%
	Score	1	2	4.5			
Left Bank	% Riparian Area	3%	70%	27%			100%
	Score	1	2	4.5			
						Rt Bk CI >	2.46
						Lt Bk CI >	2.65
							2.55

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-37

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	6	3	18	
	Water penny beetle	Family Psephenidae	42	4	168	
	Gilled snail	Order Mesogastropoda	4	3	12	
	Damselfly	Suborder Zygoptera	9	7	63	
	Scud	Order Amphipoda	13	6	78	
	Lunged snail	Order Limnophila	12	7	84	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	2	4	8	
		Total	89		439	
	<i>Melanoides tuberculata</i>	Family Thiaridae	30	none		
HBI					4.93	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-37

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	2				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	2				
	Bluegill	<i>Lepomis macrochirus</i>	3				
	Green Sunfish	<i>Lepomis cyanellus</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	63				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	2				
		Total	74				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			34
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

Notes: Collection method - seine 10/5/2020

Condition Index	1.91
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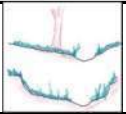
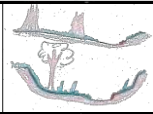
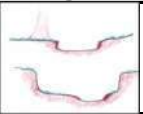
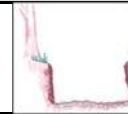
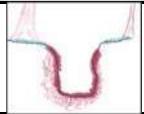


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-38
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-E		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, lift station

Right Bank	% Riparian Area	2%	98%				100%	
	Score	1	2					
Left Bank	% Riparian Area	67%	33%				100%	Rt Bk CI > 1.98
	Score	2	4.5					Lt Bk CI > 2.83

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-38

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Riffle beetle	Family Elmidae	4	3	12	
	Gilled snail	Order Mesogastropoda	27	3	81	
	Mussel	Order Heterodonta	8	6	48	
	Damselfly	Suborder Zygoptera	6	7	42	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	5	6	30	
	Lunged snail	Order Limnophila	5	7	35	
	Freshwater shrimp	Family Palaemonidae	5	4	20	
		Total	61		273	
	<i>Melanoides tuberculata</i>	Family Thiaridae	25	none		
HBI					4.48	4.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-38

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	3				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	17				
	Bluegill	<i>Lepomis macrochirus</i>	12				
	Brook Silversides	<i>Labidesthes sicculus</i>	2				
	Green Sunfish	<i>Lepomis cyanellus</i>	3				
	Mosquitofish	<i>Gambusia affinis</i>	14				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	6				
		Total	57				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	3
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			40
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

Notes: Collection method - seine 10/5/2020

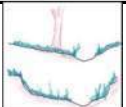
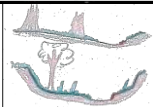
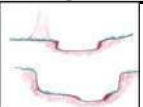
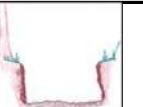
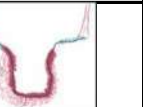
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-39
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, concrete lining, forested area, confluence of channels III-C & III-D

Right Bank	% Riparian Area	12%	61%	27%			100%	
	Score	1	2	4.5				
Left Bank	% Riparian Area	15%	85%				100%	Rt Bk CI > 2.56
	Score	1	2					Lt Bk CI > 1.85



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-39

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining at confluence with III-C, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	5	3	15	
	Gilled snail	Order Mesogastropoda	45	3	135	
	Mussel	Order Heterodonta	30	6	180	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	2	6	12	
	Lunged snail	Order Limnophila	8	7	56	
	Leech	Order Hirudinea	1	8	8	
		Total	92		411	
	<i>Melanoides tuberculata</i>	Family Thiaridae	8	none		
HBI					4.47	4.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-39

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	7				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	60				
	Bluegill	<i>Lepomis macrochirus</i>	18				
	Brook Silversides	<i>Labidesthes sicculus</i>	7				
	Green Sunfish	<i>Lepomis cyanellus</i>	7				
	Longear Sunfish	<i>Lepomis megalotis</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	11				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	2				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	33				
	Sailfin Molly	<i>Poecilia latipinna</i>	3				
	Yellow Bullhead	<i>Ameiurus natalis</i>	1				
		Total	150				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			5
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	5
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			46
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

Notes: Collection method - seine 10/5/2020

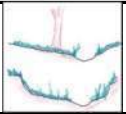
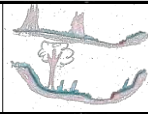
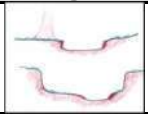
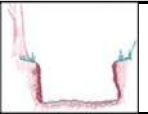
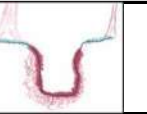
Condition Index	2.44
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-40
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested area							
Right Bank	% Riparian Area	51%	49%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	75%	25%				100%
	Score	2	4.5				
						Rt Bk CI >	3.23
						Lt Bk CI >	2.63
							2.93

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-40

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Riffle beetle	Family Elmidae	3	3	9	
	Mayfly	Order Ephemeroptera	19	3	57	
	Gilled snail	Order Mesogastropoda	31	3	93	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	8	7	56	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	4	6	24	
	Lunged snail	Order Limnophila	6	7	42	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	52	4	208	
		Total	127		512	
	<i>Melanoides tuberculata</i>	Family Thiaridae	4	none		
HBI					4.03	4.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 10/16/2020



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-40

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	4				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	54				
	Bluegill	<i>Lepomis macrochirus</i>	11				
	Green Sunfish	<i>Lepomis cyanellus</i>	7				
	Largemouth Bass	<i>Micropterus salmoides</i>	1				
	Longear Sunfish	<i>Lepomis megalotis</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	24				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Redbreast Sunfish	<i>Lepomis auritus</i>	1				
		Total	105				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	5
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	3
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			46
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

Notes: Collection method - seine 10/5/2020

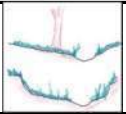
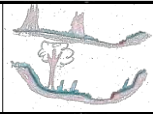
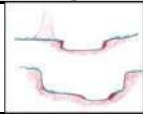
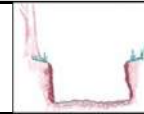
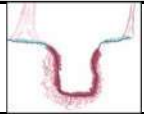
Condition Index	2.59
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-41
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniformed-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, trees, house, pond

Right Bank	% Riparian Area	2%	68%	30%			100%	
	Score	1	2	4.5				
Left Bank	% Riparian Area	89%	11%				100%	Rt Bk CI > 2.73
	Score	2	4.5					Lt Bk CI > 2.28

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-41

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	14	3	42	
	Gilled snail	Order Mesogastropoda	12	3	36	
	Mussel	Order Heterodonta	4	6	24	
	Damselfly	Suborder Zygoptera	3	7	21	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Scud	Order Amphipoda	10	6	60	
	Lunged snail	Order Limnophila	19	7	133	
	Freshwater shrimp	Family Palaemonidae	64	4	256	
		Total	129		587	
	<i>Melanoides tuberculata</i>	Family Thiaridae	1	none		
HBI					4.55	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-41

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	12				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	20				
	Bluegill	<i>Lepomis macrochirus</i>	11				
	Brook Silversides	<i>Labidesthes sicculus</i>	1				
	Green Sunfish	<i>Lepomis cyanellus</i>	24				
	Mosquitofish	<i>Gambusia affinis</i>	26				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	1				
	Sailfin Molly	<i>Poecilia latipinna</i>	1				
		Total	96				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	5
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			42
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

Notes: Collection method - seine 10/5/2020

Condition Index	2.30
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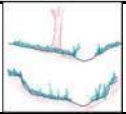
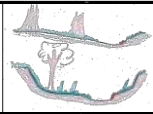
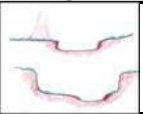
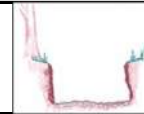
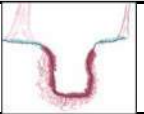


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-42
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, terminus of South Ditch, backyards							
Right Bank	% Riparian Area	1%	99%				100%
	Score	1	2				
Left Bank	% Riparian Area	100%					100%
	Score	2					
						Rt Bk CI >	1.99
						Lt Bk CI >	2.00
							2.00

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-42

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	11	3	33	
	Gilled snail	Order Mesogastropoda	43	3	129	
	Damselfly	Suborder Zygoptera	1	7	7	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Lunged snail	Order Limnophila	8	7	56	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	56	4	224	
		Total	121		462	
				HBI	3.82	4.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-42

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	7				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	32				
	Bluegill	<i>Lepomis macrochirus</i>	11				
	Golden Topminnow	<i>Fundulus chrysotus</i>	3				
	Mosquitofish	<i>Gambusia affinis</i>	15				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	1				
		Total	70				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			40
							<b>FV</b>

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

3.00

Notes: Collection method - seine 10/5/2020

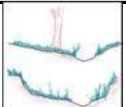
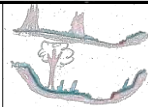
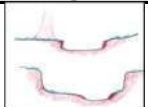
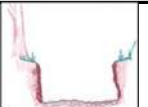
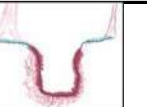
Condition Index 2.20

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-43
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, houses, bridge of Caraquet Drive, backyards

Right Bank	% Riparian Area	17%	83%				100%	
	Score	1	2					
Left Bank	% Riparian Area	16%	84%				100%	Rt Bk CI > 1.83
	Score	1	2					Lt Bk CI > 1.84



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-43

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, concrete lining under bridge, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	10	3	30	
	Gilled snail	Order Mesogastropoda	12	3	36	
	Mussel	Order Heterodonta	4	6	24	
	Damselfly	Suborder Zygoptera	2	7	14	
	Dragonfly	Suborder Anisoptera	7	5	35	
	Scud	Order Amphipoda	6	6	36	
	Lunged snail	Order Limnophila	3	7	21	
	Freshwater shrimp	Family Palaemonidae	31	4	124	
		Total	75		320	
	<i>Melanoides tuberculata</i>	Family Thiaridae	13	none		
HBI					4.27	4.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-43

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	8				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	105				
	Bluegill	<i>Lepomis macrochirus</i>	7				
	Golden Topminnow	<i>Fundulus chrysotus</i>	3				
	Mosquitofish	<i>Gambusia affinis</i>	53				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	7				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	3				
		Total	186				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			44
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

Notes: Collection method - seine 10/5/2020

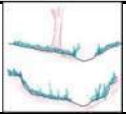
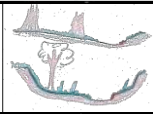
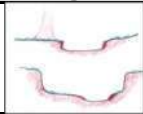
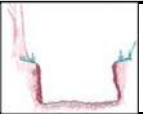
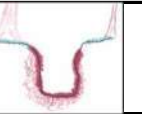
Condition Index	2.37
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-44
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, concrete lining, houses, backyards, pools

Right Bank	% Riparian Area	7%	93%				100%	
	Score	1	2					
Left Bank	% Riparian Area	6%	94%				100%	Rt Bk CI > 1.93
	Score	1	2					Lt Bk CI > 1.94

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-44

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	12	3	36	
	Gilled snail	Order Mesogastropoda	21	3	63	
	Mussel	Order Heterodonta	2	6	12	
	Damselfly	Suborder Zygoptera	5	7	35	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Scud	Order Amphipoda	3	6	18	
	Lunged snail	Order Limnophila	2	7	14	
	Freshwater shrimp	Family Palaemonidae	2	4	8	
		Total	50		201	
	<i>Melanoides tuberculata</i>	Family Thiaridae	4	none		
HBI					4.02	4.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-44

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	1				
	Bluegill	<i>Lepomis macrochirus</i>	11				
	Mosquitofish	<i>Gambusia affinis</i>	374				
	Sailfin Molly	<i>Poecilia latipinna</i>	103				
		Total	489				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	3
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	1
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			30
							FV
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

Notes: Collection method - seine 10/5/2020

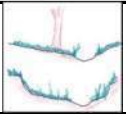
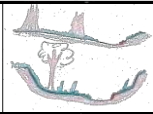
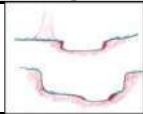
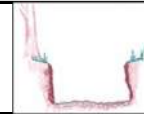
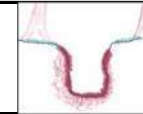
Condition Index	1.99
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-45
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, pools, houses, maintained pipeline easement, concrete lining

Right Bank	% Riparian Area	26%	74%				100%	
	Score	1	2					
Left Bank	% Riparian Area	21%	79%				100%	Rt Bk Cl > 1.74
	Score	1	2					Lt Bk Cl > 1.79

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-45

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable effects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, concrete lining, articulated block, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	2	3	6	
	Gilled snail	Order Mesogastropoda	22	3	66	
	Mussel	Order Heterodonta	25	6	150	
	Damselfly	Suborder Zygoptera	3	7	21	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	24	6	144	
	Lunged snail	Order Limnophila	10	7	70	
		Total	87		462	
	<i>Melanoides tuberculata</i>	Family Thiaridae	4	none		
HBI					5.31	2.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/16/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-45

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	9				
	Largemouth Bass	<i>Micropterus salmoides</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	126				
	Sailfin Molly	<i>Poecilia latipinna</i>	8				
		Total	144				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	1
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			32
							FV

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

2.00

Notes: Collection method - seine 10/5/2020

Condition Index 1.55

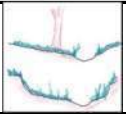
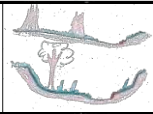
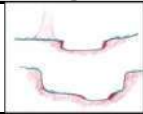
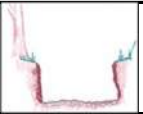
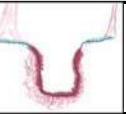


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-46
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, houses, backyards, pool							
Right Bank	% Riparian Area	6%	94%				100%
	Score	1	2				
Left Bank	% Riparian Area	5%	95%				100%
	Score	1	2				
						Rt Bk CI >	1.94
						Lt Bk CI >	1.95
							1.95

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-46

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	8	3	24	
	Gilled snail	Order Mesogastropoda	11	3	33	
	Mussel	Order Heterodonta	1	6	6	
	Damselfly	Suborder Zygoptera	9	7	63	
	Scud	Order Amphipoda	10	6	60	
	Freshwater shrimp	Family Palaemonidae	12	4	48	
		Total	51		234	
	HBI				4.59	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/1/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-46

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	14				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	17				
	Bluegill	<i>Lepomis macrochirus</i>	15				
	Golden Topminnow	<i>Fundulus chrysotus</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	16				
		Total	63				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			34
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

Notes: Collection method - seine 10/5/2020

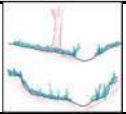
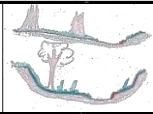
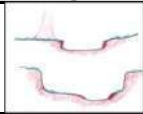
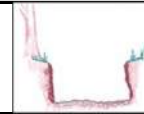
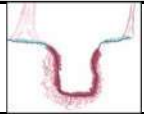
Condition Index	1.79
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-47
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, houses, bridge, backyards								
Right Bank	% Riparian Area	4%	96%				100%	
	Score	1	2					
Left Bank	% Riparian Area	4%	96%				100%	Rt Bk CI > 1.96
	Score	1	2					Lt Bk CI > 1.96



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-47

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 3 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	4	3	12	
	Gilled snail	Order Mesogastropoda	8	3	24	
	Mussel	Order Heterodonta	2	6	12	
	Damselfly	Suborder Zygoptera	7	7	49	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Lunged snail	Order Limnophila	10	7	70	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	12	4	48	
		Total	47		238	
HBI					5.06	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/1/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-47

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	15				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	97				
	Bluegill	<i>Lepomis macrochirus</i>	4				
	Brook Silversides	<i>Labidesthes sicculus</i>	2				
	Golden Topminnow	<i>Fundulus chrysotus</i>	2				
	Green Sunfish	<i>Lepomis cyanellus</i>	8				
	Longear Sunfish	<i>Lepomis megalotis</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	11				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	1				
		Total	141				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	3
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			44
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

Notes: Collection method - seine 10/5/2020

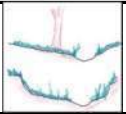
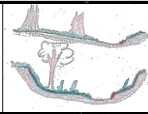
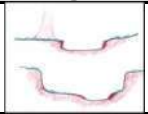
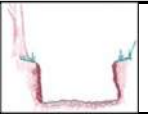
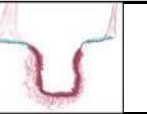
Condition Index 2.19

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-48
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, swimming pools, houses, backyards							
Right Bank	% Riparian Area	5%	95%				100%
	Score	1	2				
Left Bank	% Riparian Area	3%	97%				100%
	Score	1	2				
						Rt Bk CI >	1.95
						Lt Bk CI >	1.97
							1.96

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-48

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts with riprap, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	8	3	24	
	Gilled snail	Order Mesogastropoda	14	3	42	
	Mussel	Order Heterodonta	4	6	24	
	Damselfly	Suborder Zygoptera	2	7	14	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	1	6	6	
	Lunged snail	Order Limnophila	14	7	98	
	Freshwater shrimp	Family Palaemonidae	27	4	108	
		Total	71		321	
HBI					4.52	4.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 10/1/2020



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-48

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	7				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	94				
	Bluegill	<i>Lepomis macrochirus</i>	15				
	Brook Silversides	<i>Labidesthes sicculus</i>	5				
	Longear Sunfish	<i>Lepomis megalotis</i>	4				
	Mosquitofish	<i>Gambusia affinis</i>	30				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	3				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	1				
	Sailfin Molly	<i>Poecilia latipinna</i>	2				
		Total	161				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			42
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

Notes: Collection method - seine 10/5/2020

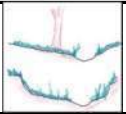
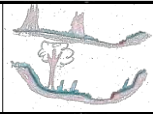
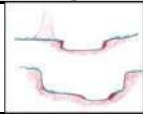
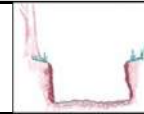
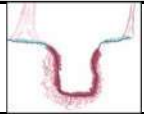
Condition Index	2.39
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-49
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, backyards, bridge of Imperial Oaks, riprap, forested area, power line easement

Right Bank	% Riparian Area	22%	78%				100%	
	Score	1	2					
Left Bank	% Riparian Area	20%	73%	7%			100%	Rt Bk Cl > 1.78
	Score	1	2	4.5				Lt Bk Cl > 1.98

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-49

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 3 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	11	3	33	
	Gilled snail	Order Mesogastropoda	3	3	9	
	Mussel	Order Heterodonta	10	6	60	
	Damselfly	Suborder Zygoptera	3	7	21	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Lunged snail	Order Limnophila	5	7	35	
	Freshwater shrimp	Family Palaemonidae	66	4	264	
		Total	100		432	
	<i>Melanoides tuberculata</i>	Family Thiaridae	2	none		
HBI					4.32	4.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/30/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/5/2020	T-49

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy	<i>Elassoma zonatum</i>	11				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	58				
	Bluegill	<i>Lepomis macrochirus</i>	22				
	Brook Silversides	<i>Labidesthes sicculus</i>	1				
	Golden Topminnow	<i>Fundulus chrysotus</i>	1				
	Green Sunfish	<i>Lepomis cyanellus</i>	8				
	Mosquitofish	<i>Gambusia affinis</i>	23				
	Orangespotted	<i>Lepomis humilis</i>	4				
	Rio Grande Cichlid	<i>Cichlasoma</i>	1				
	Sailfin Molly	<i>Poecilia latipinna</i>	2				
		Total	131				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	3
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			42
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

Notes: Collection method - seine 10/5/2020

Condition Index	2.38
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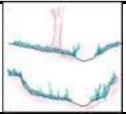
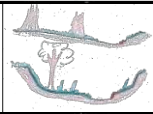
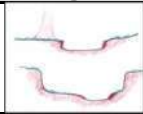
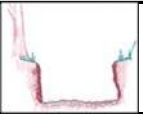
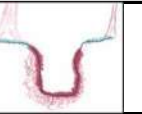


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-50
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, riprap, sidewalks, backyards

Right Bank	% Riparian Area	2%	98%				100%	
	Score	1	2					
Left Bank	% Riparian Area	18%	82%				100%	Rt Bk CI > 1.98
	Score	1	2					Lt Bk CI > 1.82

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-50

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap, 2 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	8	3	24	
	Gilled snail	Order Mesogastropoda	2	3	6	
	Mussel	Order Heterodonta	5	6	30	
	Damselfly	Suborder Zygoptera	3	7	21	
	Scud	Order Amphipoda	8	6	48	
	Lunged snail	Order Limnophila	3	7	21	
	Freshwater shrimp	Family Palaemonidae	13	4	52	
		Total	42		202	
	<i>Melanoides tuberculata</i>	Family Thiaridae	1	none		
HBI					4.81	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/30/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-50

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	3				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	3				
	Bluegill	<i>Lepomis macrochirus</i>	10				
	Mosquitofish	<i>Gambusia affinis</i>	23				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Redbreast Sunfish	<i>Lepomis auritus</i>	2				
	Sailfin Molly	<i>Poecilia latipinna</i>	3				
		Total	45				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	1
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			32
							<b>FV</b>

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

2.00

Notes: Collection method - seine 10/3/2020

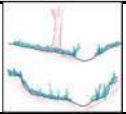
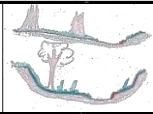
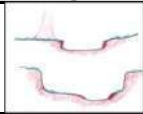
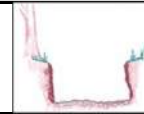
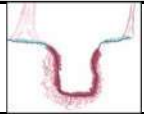
Condition Index 1.78

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-51
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, houses, pool, backyards							
Right Bank	% Riparian Area	6%	94%				100%
	Score	1	2				
Left Bank	% Riparian Area	100%					100%
	Score	2					
						Rt Bk CI >	1.94
						Lt Bk CI >	2.00
							1.97



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-51

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 1 culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	14	3	42	
	Gilled snail	Order Mesogastropoda	5	3	15	
	Mussel	Order Heterodonta	2	6	12	
	Damselfly	Suborder Zygoptera	15	7	105	
	Scud	Order Amphipoda	10	6	60	
		Total	46		234	
	HBI				5.09	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-51

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	4				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	7				
	Bluegill	<i>Lepomis macrochirus</i>	7				
	Green Sunfish	<i>Lepomis cyanellus</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	24				
	Redbreast Sunfish	<i>Lepomis auritus</i>	3				
	Sailfin Molly	<i>Poecilia latipinna</i>	1				
		Total	48				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	1
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			34
							<b>FV</b>

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

2.00

Notes: Collection method - seine 10/3/2020

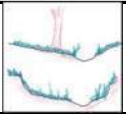
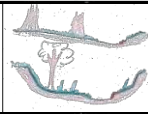
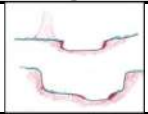
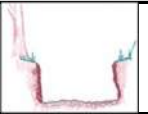
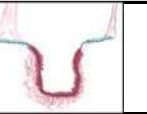
Condition Index 1.79

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-52
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, houses, backyards								
Right Bank	% Riparian Area	4%	96%				100%	
	Score	1	2					
Left Bank	% Riparian Area	100%					100%	Rt Bk CI > 1.96
	Score	2						Lt Bk CI > 2.00
								1.98

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-52

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	41	3	123	
	Gilled snail	Order Mesogastropoda	21	3	63	
	Mussel	Order Heterodonta	1	6	6	
	Damselfly	Suborder Zygoptera	18	7	126	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	35	6	210	
	Lunged snail	Order Limnophila	4	7	28	
	Freshwater shrimp	Family Palaemonidae	4	4	16	
		Total	125		577	
HBI					4.62	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-52

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	2				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	11				
	Bluegill	<i>Lepomis macrochirus</i>	8				
	Mosquitofish	<i>Gambusia affinis</i>	4				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
		Total	26				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							FV
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						3.00

Notes: Collection method - seine 10/3/2020

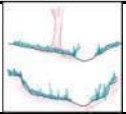
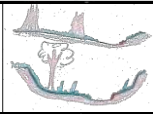
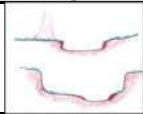
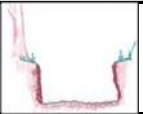
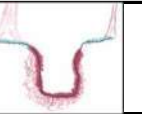
Condition Index	2.00
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-53
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, houses, backyards								
Right Bank	% Riparian Area	3%	97%				100%	
	Score	1	2					
Left Bank	% Riparian Area	100%					100%	Rt Bk CI > 1.97
	Score	2						Lt Bk CI > 2.00
							1.99	

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-53

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, articulated block, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	43	3	129	
	Gilled snail	Order Mesogastropoda	51	3	153	
	Mussel	Order Heterodonta	3	6	18	
	Damselfly	Suborder Zygoptera	25	7	175	
	Scud	Order Amphipoda	44	6	264	
	Lunged snail	Order Limnophila	3	7	21	
	Leech	Order Hirudinea	3	8	24	
	Freshwater shrimp	Family Palaemonidae	5	4	20	
		Total	177		804	
HBI					4.54	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-53

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	6				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	8				
	Bluegill	<i>Lepomis macrochirus</i>	3				
	Brook Silversides	<i>Labidesthes sicculus</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	1				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	1				
		Total	22				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			40
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						3.00

Notes: Collection method - seine 10/3/2020

Condition Index	2.00
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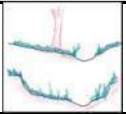
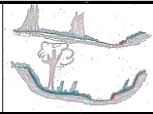
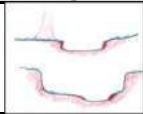
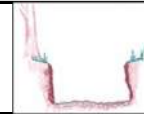
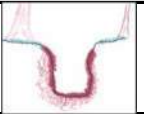


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-54
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, backyards swimming pools, trees

Right Bank	% Riparian Area	4%	96%				100%	
	Score	1	2					
Left Bank	% Riparian Area	81%	19%				100%	Rt Bk CI > 1.96
	Score	2	4.5					Lt Bk CI > 2.48

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-54

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 4 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	12	3	36	
	Gilled snail	Order Mesogastropoda	8	3	24	
	Mussel	Order Heterodonta	4	6	24	
	Damselfly	Suborder Zygoptera	16	7	112	
	Whirligig Beetle	Family Gyrinidae	2	6	12	
	Scud	Order Amphipoda	12	6	72	
	Lunged snail	Order Limnophila	22	7	154	
	Freshwater shrimp	Family Palaemonidae	10	4	40	
		Total	86		474	
HBI					5.51	2.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-54

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	14				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	4				
	Bluegill	<i>Lepomis macrochirus</i>	13				
	Largemouth Bass	<i>Micropterus salmoides</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	4				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	4				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	1				
	Sailfin Molly	<i>Poecilia latipinna</i>	1				
		Total	42				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							FV
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						3.00

Notes: Collection method - seine 10/3/2020

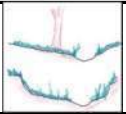
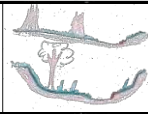
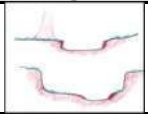
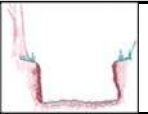
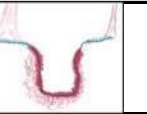
Condition Index	1.84
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-55
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, house, backyards, concrete drainage structures

Right Bank	% Riparian Area	4%	96%				100%	
	Score	1	2					
Left Bank	% Riparian Area	85%	15%				100%	Rt Bk CI > 1.96
	Score	2	4.5					Lt Bk CI > 2.38



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-55

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable effects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	14	3	42	
	Stonefly	Order Plecoptera	1	1	1	
	Gilled snail	Order Mesogastropoda	25	3	75	
	Mussel	Order Heterodonta	4	6	24	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	23	7	161	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	23	6	138	
	Lunged snail	Order Limnophila	24	7	168	
	Freshwater shrimp	Family Palaemonidae	18	4	72	
		Total	134		691	
HBI					5.16	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-55

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	6				
	Bluegill	<i>Lepomis macrochirus</i>	42				
	Largemouth Bass	<i>Micropterus salmoides</i>	1				
	Longear Sunfish	<i>Lepomis megalotis</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	7				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	4				
	Rio Grande Cichlid	<i>Cichlasoma</i>	3				
	Sailfin Molly	<i>Poecilia latipinna</i>	2				
		Total	67				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	5
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							<b>FV</b>

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

3.00

Notes: Collection method - seine 10/3/2020

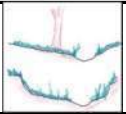
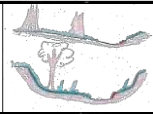
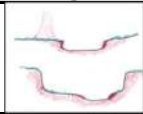
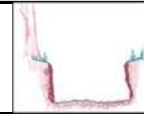
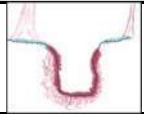
Condition Index 2.03

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-56
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, roads, backyards, trees								
Right Bank	% Riparian Area	2%	98%				100%	
	Score	1	2					
Left Bank	% Riparian Area	2%	89%	9%			100%	Rt Bk Cl > 1.98
	Score	1	2	4.5				Lt Bk Cl > 2.21
							2.09	

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-56

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 3 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	5	3	15	
	Gilled snail	Order Mesogastropoda	12	3	36	
	Mussel	Order Heterodonta	10	6	60	
	Damselfly	Suborder Zygoptera	13	7	91	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	2	6	12	
	Freshwater shrimp	Family Palaemonidae	48	4	192	
		Total	91		411	
	<i>Melanoides tuberculata</i>	Family Thiaridae	1	none		
HBI					4.52	4.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-56

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	39				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	7				
	Bluegill	<i>Lepomis macrochirus</i>	2				
	Green Sunfish	<i>Lepomis cyanellus</i>	14				
	Largemouth Bass	<i>Micropterus salmoides</i>	11				
	Mosquitofish	<i>Gambusia affinis</i>	12				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	7				
	Sailfin Molly	<i>Poecilia latipinna</i>	1				
		Total	93				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	5
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			46
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

Notes: Collection method - seine 10/3/2020

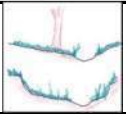
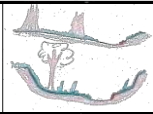
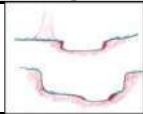
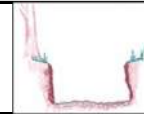
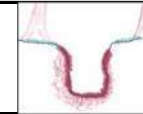
Condition Index	2.42
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-57
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, backyards, trees							
Right Bank	% Riparian Area	5%	95%				100%
	Score	1	2				
Left Bank	% Riparian Area	80%	20%				100%
	Score	2	4.5				
						Rt Bk CI >	1.95
						Lt Bk CI >	2.50
							2.23

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-57

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Gilled snail	Order Mesogastropoda	1	3	3	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Lunged snail	Order Limnophila	1	7	7	
	Freshwater shrimp	Family Palaemonidae	10	4	40	
		Total	14		60	
	<i>Melanoides tuberculata</i>	Family Thiaridae	3	none		
HBI					4.29	4.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/28/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-57

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	54				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	9				
	Bluegill	<i>Lepomis macrochirus</i>	33				
	Largemouth Bass	<i>Micropterus salmoides</i>	2				
	Mosquitofish	<i>Gambusia affinis</i>	36				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	32				
	Sailfin Molly	<i>Poecilia latipinna</i>	13				
		Total	180				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	5
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			42
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

Notes: Collection method - seine 10/3/2020

Condition Index	2.45
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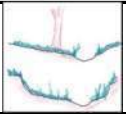
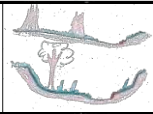
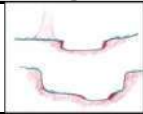
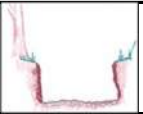
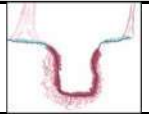


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-58
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, waste water treatment plant, concrete lining, trees, backyards

Right Bank	% Riparian Area	8%	90%	2%				100%	
	Score	1	2	4.5					
Left Bank	% Riparian Area	90%	10%					100%	Rt Bk Cl > 1.97
	Score	2	4.5						Lt Bk Cl > 2.25

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-58

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 3 culverts, partial concrete lining, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	12	3	36	
	Gilled snail	Order Mesogastropoda	10	3	30	
	Mussel	Order Heterodonta	25	6	150	
	Damselfly	Suborder Zygoptera	12	7	84	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	3	6	18	
	Lunged snail	Order Limnophila	11	7	77	
	Leech	Order Hirudinea	3	8	24	
	Freshwater shrimp	Family Palaemonidae	2	4	8	
		Total	80		437	
	<i>Melanoides tuberculata</i>	Family Thiaridae	26	none		
HBI					5.46	2.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 9/29/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-58

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	35				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	6				
	Bluegill	<i>Lepomis macrochirus</i>	17				
	Largemouth Bass	<i>Micropterus salmoides</i>	1				
	Longear Sunfish	<i>Lepomis megalotis</i>	4				
	Mosquitofish	<i>Gambusia affinis</i>	36				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	18				
	Sailfin Molly	<i>Poecilia latipinna</i>	8				
		Total	125				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			40
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

Notes: Collection method - seine 10/3/2020

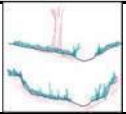
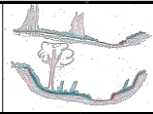
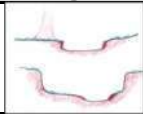
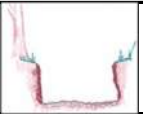
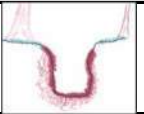
Condition Index	1.82
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-59
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, maintained yards, trees								
Right Bank	% Riparian Area	1%	98%	1%			100%	
	Score	1	2	4.5				
Left Bank	% Riparian Area	1%	77%	22%			100%	Rt Bk CI > 2.02
	Score	1	2	4.5				Lt Bk CI > 2.54
								2.28



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-59

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable effects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	1	3	3	
	Dragonfly	Suborder Anisoptera	10	5	50	
	Scud	Order Amphipoda	1	6	6	
	Freshwater shrimp	Family Palaemonidae	1	4	4	
		Total	13		63	
	<i>Melanoides tuberculata</i>	Family Thiaridae	6	none		
HBI					4.85	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	10/3/2020	T-59

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	11				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	1				
	Bluegill	<i>Lepomis macrochirus</i>	4				
	Longear Sunfish	<i>Lepomis megalotis</i>	12				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	106				
		Total	134				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			40
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

Notes: Collection method - seine 10/3/2020

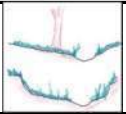
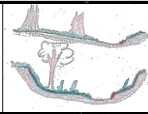
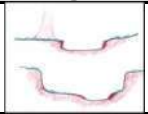
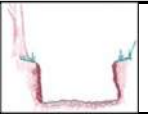
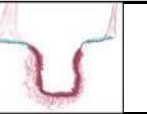
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-60
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, backyard, concrete lining, trees, dirt road

Right Bank	% Riparian Area	100%					100%	
	Score	2						
Left Bank	% Riparian Area	3%	95%	2%			100%	Rt Bk CI > 2.00
	Score	1	2	4.5				Lt Bk CI > 2.02

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-60

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable effects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, articulated block, 2 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	7	3	21	
	Damselfly	Suborder Zygoptera	13	7	91	
	Whirligig Beetle	Family Gyrinidae	1	6	6	
	Scud	Order Amphipoda	6	6	36	
	Aquatic worm	Class Oligochaeta	1	8	8	
		Total	28		162	
				HBI	5.79	2.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 9/28/2020



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-60

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	12				
	Bluegill	<i>Lepomis macrochirus</i>	12				
	Mosquitofish	<i>Gambusia affinis</i>	27				
	Rio Grande Cichlid	<i>Cichlasoma</i>	54				
		Total	105				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	3
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			36
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

Notes: Collection method - seine 9/29/2020

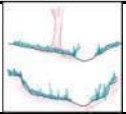
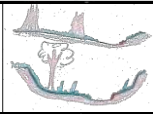
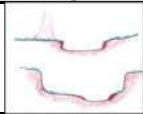
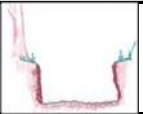
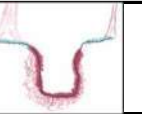
Condition Index	1.80
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-61
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-D & III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, bridge, lift station, riprap								
Right Bank	% Riparian Area	33%	59%	8%			100%	
	Score	1	2	4.5				
Left Bank	% Riparian Area	72%	28%				100%	Rt Bk CI > 1.87
	Score	1	2					Lt Bk CI > 1.28
								1.58

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-61

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap, 6 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	30	3	90	
	Gilled snail	Order Mesogastropoda	3	3	9	
	Mussel	Order Heterodonta	8	6	48	
	Damselfly	Suborder Zygoptera	37	7	259	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Whirligig Beetle	Family Gyridae	2	6	12	
	Scud	Order Amphipoda	13	6	78	
	Lunged snail	Order Limnophila	2	7	14	
	Freshwater shrimp	Family Palaemonidae	1	4	4	
		Total	97		519	
HBI					5.35	2.00
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 9/28/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-61

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	7				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	1				
	Blacktail Shiner	<i>Cyprinella venusta</i>	2				
	Bluegill	<i>Lepomis macrochirus</i>	10				
	Largemouth Bass	<i>Micropterus salmoides</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	5				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	24				
	Sailfin Molly	<i>Poecilia latipinna</i>	3				
		Total	54				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						3.00

Notes: Collection method - seine 9/29/2020

Condition Index	1.72
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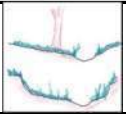
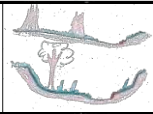
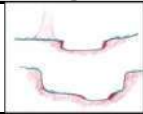
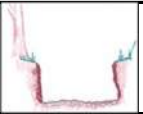
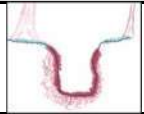


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-62
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, trees, backyards							
Right Bank	% Riparian Area	72%	28%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	100%					100%
	Score	2					
						Rt Bk CI >	2.70
						Lt Bk CI >	2.00
							2.35

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-62

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	34	3	102	
	Mussel	Order Heterodonta	11	6	66	
	Damselfly	Suborder Zygoptera	7	7	49	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	17	6	102	
	Freshwater shrimp	Family Palaemonidae	2	4	8	
		Total	73		337	
HBI					4.62	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/28/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-62

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	10				
	Bluegill	<i>Lepomis macrochirus</i>	9				
	Mosquitofish	<i>Gambusia affinis</i>	27				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	12				
	Sailfin Molly	<i>Poecilia latipinna</i>	3				
	Yellow Bullhead	<i>Ameiurus natalis</i>	1				
		Total	62				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	3
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	3
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			34
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

Notes: Collection method - seine 9/29/2020

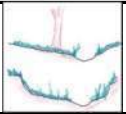
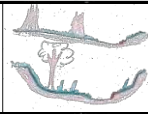
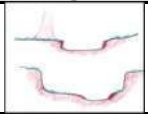
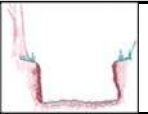
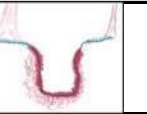
Condition Index	1.87
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-63
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, forested area

Right Bank	% Riparian Area	87%	13%				100%	
	Score	2	4.5					
Left Bank	% Riparian Area	100%					100%	Rt Bk CI > 2.33
	Score	2						Lt Bk CI > 2.00



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-63

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	32	3	96	
	Damselfly	Suborder Zygoptera	18	7	126	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	14	6	84	
	Lunged snail	Order Limnophila	1	7	7	
	Freshwater shrimp	Family Palaemonidae	2	4	8	
		Total	68		326	
HBI					4.79	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/28/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-63

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	7				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	9				
	Bluegill	<i>Lepomis macrochirus</i>	33				
	Mosquitofish	<i>Gambusia affinis</i>	20				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	7				
		Total	76				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			32
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

Notes: Collection method - seine 9/29/2020

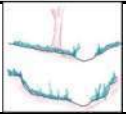
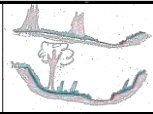
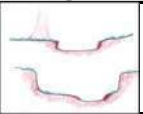
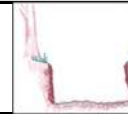
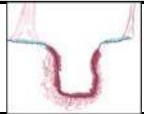
Condition Index	1.83
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-64
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested areas							
Right Bank	% Riparian Area	70%	30%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	100%					100%
	Score	2					
						Rt Bk CI >	2.75
						Lt Bk CI >	2.00
							2.38

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-64

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 3 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	7	3	21	
	Gilled snail	Order Mesogastropoda	5	3	15	
	Mussel	Order Heterodonta	6	6	36	
	Damselfly	Suborder Zygoptera	8	7	56	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	5	6	30	
	Aquatic worm	Class Oligochaeta	2	8	16	
	Freshwater shrimp	Family Palaemonidae	1	4	4	
		Total	35		183	
HBI					5.23	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/28/2020



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-64

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	1				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	42				
	Bluegill	<i>Lepomis macrochirus</i>	11				
	Mosquitofish	<i>Gambusia affinis</i>	2				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	5				
	Rio Grande Cichlid	<i>Cichlasoma</i>	3				
	Yellow Bullhead	<i>Ameiurus natalis</i>	1				
		Total	65				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			40
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

Notes: Collection method - seine 9/29/2020

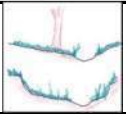
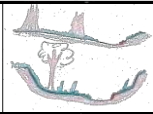
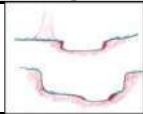
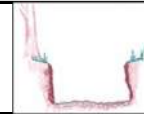
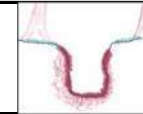
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-65
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested areas, riprap							
Right Bank	% Riparian Area	81%	19%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	6%	84%	10%			100%
	Score	1	2	4.5			
						Rt Bk CI >	2.48
						Lt Bk CI >	2.19
							2.33

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-65

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable effects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	12	3	36	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	17	7	119	
	Dragonfly	Suborder Anisoptera	6	5	30	
	Whirligig Beetle	Family Gyrinidae	1	6	6	
	Scud	Order Amphipoda	8	6	48	
	Lunged snail	Order Limnophila	2	7	14	
	Aquatic worm	Class Oligochaeta	1	8	8	
	Freshwater shrimp	Family Palaemonidae	15	4	60	
		Total	63		326	
	<i>Melanoides tuberculata</i>	Family Thiaridae	2	none		
HBI					5.17	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/28/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-65

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	9				
	Bluegill	<i>Lepomis macrochirus</i>	33				
	Green Sunfish	<i>Lepomis cyanellus</i>	4				
	Mosquitofish	<i>Gambusia affinis</i>	5				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma</i>	11				
	Yellow Bullhead	<i>Ameiurus natalis</i>	1				
		Total	64				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	1
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	3
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							<b>FV</b>

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

3.00

Notes: Collection method - seine 9/29/2020

Condition Index 2.07

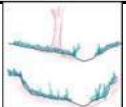
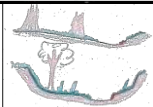
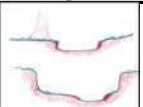
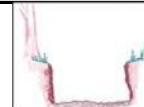
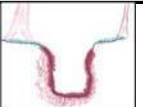


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-66
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, park path, forested area

Right Bank	% Riparian Area	83%	17%				100%	
	Score	2	4.5					
Left Bank	% Riparian Area	10%	90%				100%	Rt Bk CI > 2.43
	Score	1	2					Lt Bk CI > 1.90

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-66

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	18	3	54	
	Gilled snail	Order Mesogastropoda	11	3	33	
	Damselfly	Suborder Zygoptera	23	7	161	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	9	6	54	
	Lunged snail	Order Limnophila	20	7	140	
	Freshwater shrimp	Family Palaemonidae	18	4	72	
		Total	100		519	
				HBI	5.19	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-66

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	5				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	36				
	Bluegill	<i>Lepomis macrochirus</i>	39				
	Mosquitofish	<i>Gambusia affinis</i>	10				
	Orangespotted Sunfish	<i>Lepomis humilis</i>	2				
	Rio Grande Cichlid	<i>Cichlasoma</i>	29				
	Sailfin Molly	<i>Poecilia latipinna</i>	1				
		Total	122				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	3
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			42
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						4.00

Notes: Collection method - seine 9/29/2020

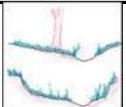
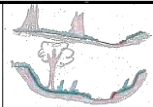
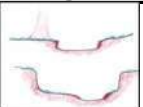

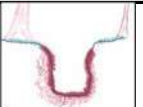
Condition Index	2.23
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-67
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, park, backyards							
Right Bank	% Riparian Area	100%					100%
	Score	2					
Left Bank	% Riparian Area	62%	38%				100%
	Score	2	4.5				
						Rt Bk CI >	2.00
						Lt Bk CI >	2.95
							2.48



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-67

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	20	3	60	
	Gilled snail	Order Mesogastropoda	31	3	93	
	Mussel	Order Heterodonta	1	6	6	
	Damselfly	Suborder Zygoptera	19	7	133	
	Scud	Order Amphipoda	24	6	144	
	Lunged snail	Order Limnophila	12	7	84	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	16	4	64	
		Total	124		592	
HBI					4.77	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-67

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	3				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	26				
	Blacktail Shiner	<i>Cyprinella venusta</i>	1				
	Bluegill	<i>Lepomis macrochirus</i>	5				
	Mosquitofish	<i>Gambusia affinis</i>	8				
	Rio Grande Cichlid	<i>Cichlasoma</i>	7				
		Total	50				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						3.00

Notes: Collection method - seine 9/29/2020

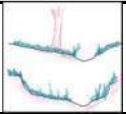
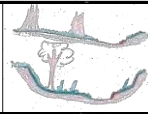
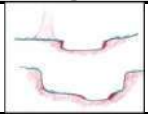
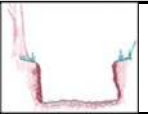
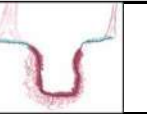
Condition Index	2.10
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-68
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, maintained park, houses, backyards

Right Bank	% Riparian Area	5%	95%				100%	
	Score	1	2					
Left Bank	% Riparian Area	100%					100%	Rt Bk CI > 1.95
	Score	2						Lt Bk CI > 2.00

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-68

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable effects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	17	3	51	
	Gilled snail	Order Mesogastropoda	41	3	123	
	Mussel	Order Heterodonta	34	6	204	
	Net-spinning caddisfly	Family Hydropsychidae	4	4	16	
	Crayfish	Family Cambaridae	1	5	5	
	Whirligig Beetle	Family Gyrinidae	1	6	6	
	Scud	Order Amphipoda	22	6	132	
	Lunged snail	Order Limnophila	11	7	77	
	Leech	Order Hirudinea	1	8	8	
		Total	132		622	
	<i>Melanoides tuberculata</i>	Family Thiaridae	1	none		
HBI					4.71	3.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-68

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	59				
	Bluegill	<i>Lepomis macrochirus</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	9				
	Redbreast Sunfish	<i>Lepomis auritus</i>	2				
	Rio Grande Cichlid	<i>Cichlasoma</i>	2				
		Total	73				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			36
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

Notes: Collection method - seine 9/29/2020

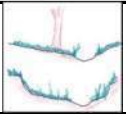
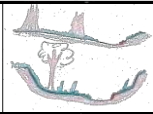
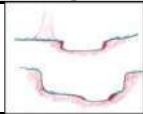
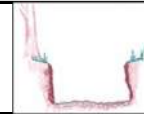
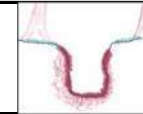
Condition Index	2.00
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-69
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, houses, backyards, pipeline easement

Right Bank	% Riparian Area	4%	96%				100%	
	Score	1	2					
Left Bank	% Riparian Area	100%					100%	Rt Bk CI > 1.96
	Score	2						Lt Bk CI > 2.00

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-69

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap, 3 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	29	3	87	
	Gilled snail	Order Mesogastropoda	23	3	69	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	14	7	98	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Scud	Order Amphipoda	16	6	96	
	Freshwater shrimp	Family Palaemonidae	4	4	16	
		Total	89		381	
	<i>Melanoides tuberculata</i>	Family Thiaridae	1	none		
HBI					4.28	4.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/29/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/29/2020	T-69

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	9				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	5				
	Bluegill	<i>Lepomis macrochirus</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	15				
		Total	30				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	3
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			34
							<b>FV</b>

Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)

2.00

Notes: Collection method - seine, strong smell of sulfide, no fish first two samples 9/29/2020

Condition Index 2.00

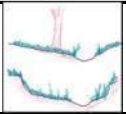
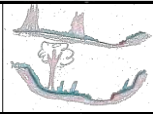
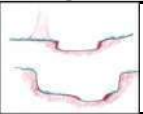
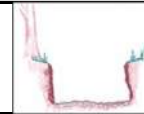
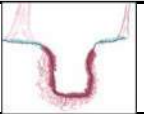


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-70
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, forested area, wastewater treatment plant, houses, backyards

Right Bank	% Riparian Area	1%	99%				100%	
	Score	1	2					
Left Bank	% Riparian Area	93%	7%				100%	Rt Bk CI > 1.99
	Score	2	4.5					Lt Bk CI > 2.18

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-70

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mussel	Order Heterodonta	9	6	54	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	1	7	7	
	Dragonfly	Suborder Anisoptera	2	5	10	
	Lunged snail	Order Limnophila	1	7	7	
	Aquatic worm	Class Oligochaeta	1	8	8	
		Total	15		91	
	<i>Melanoides tuberculata</i>	Family Thiaridae	1	none		
HBI					6.07	2.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/28/2020

# Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-70

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	6				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	7				
	Bluegill	<i>Lepomis macrochirus</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	3				
	Rio Grande Cichlid	<i>Cichlasoma</i>	1				
		Total	18				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			36
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						<b>3.00</b>

Notes: Collection method - seine, d-net 9/28/2020

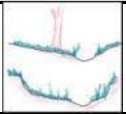
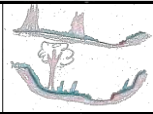
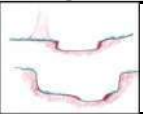
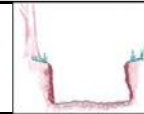
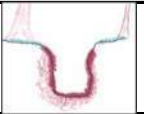
Condition Index	1.82
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-71
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested area, backyards, houses							
Right Bank	% Riparian Area	1%	99%				100%
	Score	1	2				
Left Bank	% Riparian Area	62%	38%				100%
	Score	2	4.5				
						Rt Bk CI >	1.99
						Lt Bk CI >	2.95
							2.47



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-71

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, 2 culverts, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	1	3	3	
	Mussel	Order Heterodonta	2	6	12	
	Damselfly	Suborder Zygoptera	2	7	14	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Scud	Order Amphipoda	1	6	6	
	Aquatic worm	Class Oligochaeta	1	8	8	
	Freshwater shrimp	Family Palaemonidae	1	4	4	
		Total	11		62	
	<i>Melanoides tuberculata</i>	Family Thiaridae	1	none		
HBI					5.64	2.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/18/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-71

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	3				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	1				
	Total		4				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	1
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			32
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

Notes: Collection method - seine, d-net, very few fish observed, closest transect to waste water treatment plant  
9/28/2020

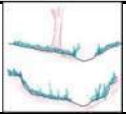
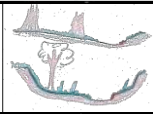
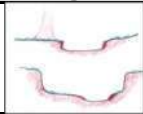
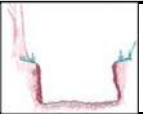
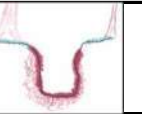
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-72
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, backyards, houses, forested area							
Right Bank	% Riparian Area	2%	98%				100%
	Score	1	2				
Left Bank	% Riparian Area	64%	36%				100%
	Score	2	4.5				
						Rt Bk CI >	1.98
						Lt Bk CI >	2.90
							2.44

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-72

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable effects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Damselfly	Suborder Zygoptera	4	7	28	
	Scud	Order Amphipoda	2	6	12	
	Freshwater shrimp	Family Palaemonidae	1	4	4	
		Total	7		44	
	<i>Melanoides tuberculata</i>	Family Thiaridae	2	none		
	HBI				6.29	2.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/18/2020



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-72

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	4				
	Bluegill	<i>Lepomis macrochirus</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma cyanoguttatum</i>	4				
		Total	9				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	3
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			34
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

Notes: Collection method - seine, very deep made sampling difficult 9/28/2020

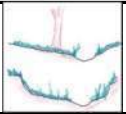
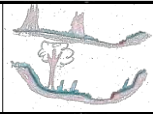
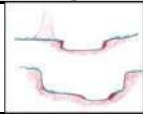
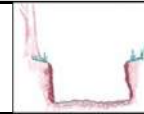
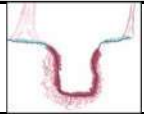
Condition Index	1.69
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-73
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV		
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1	
Notes: Maintained ROW, forested area, maintained adjacent property, concrete intake structure, riprap								
Right Bank	% Riparian Area	100%					100%	
	Score	2						
Left Bank	% Riparian Area	66%	34%				100%	Rt Bk CI > 2
	Score	2	4.5					Lt Bk CI > 2.85
								2.43

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-73

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, riprap, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	4	3	12	
	Stonefly	Order Plecoptera	1	1	1	
	Damselfly	Suborder Zygoptera	8	7	56	
	Whirligig Beetle	Family Gyrinidae	1	6	6	
	Lunged snail	Order Limnophila	1	7	7	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	1	4	4	
		Total	17		94	
	<i>Melanoides tuberculata</i>	Family Thiaridae	5	none		
HBI					5.53	2.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/18/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-73

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	2				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	1				
	Rio Grande Cichlid	<i>Cichlasoma</i>	4				
		Total	8				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	3
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			34
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

Notes: Collection method - seine, d-net, very deep made sampling difficult 9/28/2020

Condition Index	1.69
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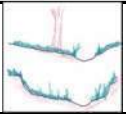
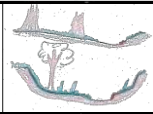
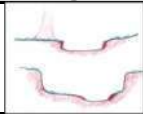
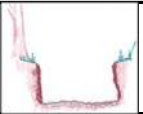
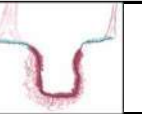


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-74
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniformed-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, forested area, riprap

Right Bank	% Riparian Area	100%					100%	
	Score	2						
Left Bank	% Riparian Area	66%	34%				100%	Rt Bk CI > 2.00
	Score	2	4.5					Lt Bk CI > 2.85

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-74

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	3	3	9	
	Gilled snail	Order Mesogastropoda	3	3	9	
	Mussel	Order Heterodonta	4	6	24	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	9	7	63	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	1	6	6	
	Lunged snail	Order Limnophila	1	7	7	
		Total	23		128	
	<i>Melanoides tuberculata</i>	Family Thiaridae	4	none		
HBI					5.57	2.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/18/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-74

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	3				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	15				
	Brook Silversides	<i>Labidesthes sicculus</i>	12				
	Largemouth Bass	<i>Micropterus salmoides</i>	1				
	Mosquitofish	<i>Gambusia affinis</i>	2				
	Rio Grande Cichlid	<i>Cichlasoma</i>	6				
		Total	39				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			3
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	5
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			38
							FV
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						3.00

Notes: Collection method - seine 9/28/2020

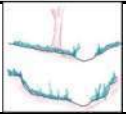
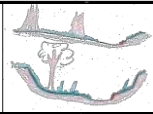
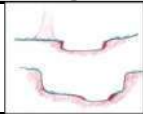
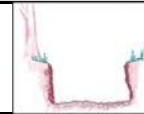
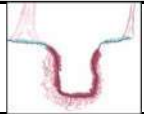
Condition Index	1.89
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-75
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV				
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.	The area consists of one or more of the following: impervious surfaces; mine spoil lands; denuded surfaces; row crops; active feed lots; or other comparable conditions. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.		
Score	5	4.5	4	3.5	3	2	1			
Notes: Maintained ROW, forested area, riprap										
Right Bank	% Riparian Area	1%	58%	41%			100%	Rt Bk CI >	3.02	BV
	Score	1	2	4.5						
Left Bank	% Riparian Area	63%	37%				100%	Lt Bk CI >	2.93	2.97
	Score	2	4.5							



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-75

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	2	3	6	
	Gilled snail	Order Mesogastropoda	5	3	15	
	Mussel	Order Heterodonta	5	6	30	
	Damselfly	Suborder Zygoptera	11	7	77	
	Dragonfly	Suborder Anisoptera	4	5	20	
	Whirligig Beetle	Family Gyridae	1	6	6	
	Scud	Order Amphipoda	3	6	18	
	Lunged snail	Order Limnophila	1	7	7	
	Aquatic worm	Class Oligochaeta	3	8	24	
	Leech	Order Hirudinea	2	8	16	
	Freshwater shrimp	Family Palaemonidae	2	4	8	
		Total	39		227	
	Melanooides tuberculata	Family Thiaridae	31	none		
	HBI					
<3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), >5.27 Poor (2), 0 Severe (1)						

Notes: 9/18/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-75

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	21				
	Blacktail shiner	<i>Cyprinella venusta</i>	21				
	Total		42				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	1
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			32
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

Notes: Collection method - seine 9/28/2020

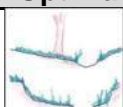
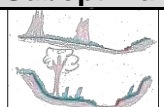
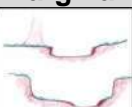

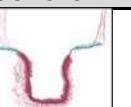
Condition Index	1.79
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# Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-76
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

### 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

### 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	<p>Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.</p>	<p>Native plant species &gt;60% coverage with no wetlands &amp; no maintenance or grazing OR native community species 30-59% with wetlands &amp; no maintenance or grazing within the buffer.</p>	<p>Native plant species 30-59% coverage with no wetlands &amp; no maintenance or grazing activities present within the buffer.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>	<p>Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.</p>		<p>The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.</p>
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested area, riprap							
Right Bank	% Riparian Area	84%	16%			100%	
	Score	2	4.5				
Left Bank	% Riparian Area	1%	73%	26%		100%	Rt Bk CI > 2.40
	Score	1	2	4.5			Lt Bk CI > 2.64
						2.52	

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-76

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Gilled snail	Order Mesogastropoda	2	3	6	
	Mussel	Order Heterodonta	26	6	156	
	Damselfly	Suborder Zygoptera	3	7	21	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Sowbug	Order Isopoda	1	9	9	
	Lunged snail	Order Limnophila	1	7	7	
	Aquatic worm	Class Oligochaeta	1	8	8	
		Total	35		212	
	<i>Melanoides tuberculata</i>	Family Thiaridae	32	none		
HBI					6.06	2.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/18/2020



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-76

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	11				
	Blacktail Shiner	<i>Cyprinella venusta</i>	5				
	Brook Silversides	<i>Labidesthes sicculus</i>	3				
	Sailfin Molly	<i>Poecilia latipinna</i>	2				
		Total	21				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	3
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	3
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			32
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

Notes: Collection method - 20 ft seine 9/28/2020

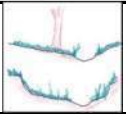
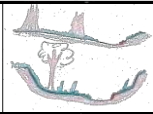
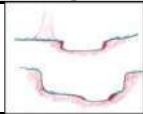
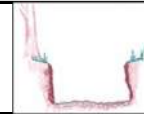
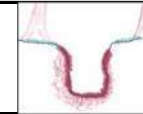
Condition Index	1.70
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-77
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1
Notes: Maintained ROW, forested area, maintained adjacent property							
Right Bank	% Riparian Area	75%	25%				100%
	Score	2	4.5				
Left Bank	% Riparian Area	73%	27%				100%
	Score	2	4.5				
						Rt Bk CI >	2.63
						Lt Bk CI >	2.68
							2.65

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-77

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	3	3	9	
	Gilled snail	Order Mesogastropoda	23	3	69	
	Mussel	Order Heterodonta	3	6	18	
	Damselfly	Suborder Zygoptera	2	7	14	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Whirligig Beetle	Family Gyridae	1	6	6	
	Aquatic worm	Class Oligochaeta	1	8	8	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	3	4	12	
		Total	40		159	
	<i>Melanoides tuberculata</i>	Family Thiaridae	66	none		
HBI					3.98	4.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/18/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-77

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	58				
	Brook Silversides	<i>Labidesthes sicculus</i>	16				
	Total		74				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	1
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			32
							FV
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

Notes: Collection method - 20 ft seine 9/28/2020

Condition Index	2.13
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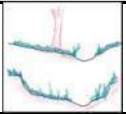
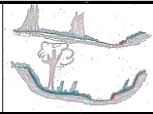
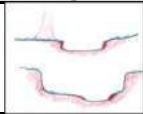
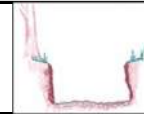
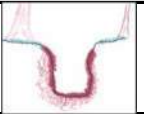


## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-78
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, forested area, maintained adjacent property

Right Bank	% Riparian Area	75%	25%				100%	
	Score	2	4.5					
Left Bank	% Riparian Area	83%	17%				100%	Rt Bk CI > 2.63
	Score	2	4.5					Lt Bk CI > 2.43

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-78

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, culvert, riprap, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	7	3	21	
	Gilled snail	Order Mesogastropoda	2	3	6	
	Mussel	Order Heterodonta	7	6	42	
	Damselfly	Suborder Zygoptera	8	7	56	
	Scud	Order Amphipoda	3	6	18	
	Lunged snail	Order Limnophila	20	7	140	
	Leech	Order Hirudinea	1	8	8	
	Freshwater shrimp	Family Palaemonidae	1	4	4	
		Total	49		295	
	<i>Melanoides tuberculata</i>	Family Thiaridae	52	none		
HBI					6.02	2.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/18/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-78

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	73				
	Bluegill	<i>Lepomis macrochirus</i>	1				
	Channel Catfish	<i>Ictalurus punctatus</i>	1				
		Total	75				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	1
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	1
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			32
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

Notes: Collection method - 20 ft seine 9/28/2020

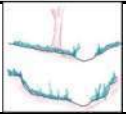
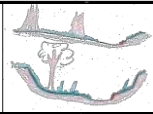
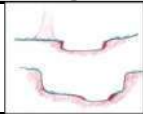
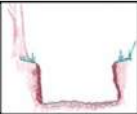
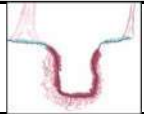
Condition Index	1.71
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-79
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, concrete lining, riprap, forested area

Right Bank	% Riparian Area	98%	2%				100%	
	Score	2	4.5					
Left Bank	% Riparian Area	21%	63%	16%			100%	Rt Bk CI > 2.05
	Score	1	2	4.5				Lt Bk CI > 2.19



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-79

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable affects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, partial concrete lining, riprap, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	8	3	24	
	Gilled snail	Order Mesogastropoda	3	3	9	
	Mussel	Order Heterodonta	13	6	78	
	Damselfly	Suborder Zygoptera	11	7	77	
	Dragonfly	Suborder Anisoptera	3	5	15	
	Lunged snail	Order Limnophila	30	7	210	
	Freshwater shrimp	Family Palaemonidae	1	4	4	
		Total	69		417	
	<i>Melanoides tuberculata</i>	Family Thiaridae	8	none		
HBI					6.04	2.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/18/2020

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-79

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Blackstripe Topminnow	<i>Fundulus notatus</i>	50				
	Blacktail Shiner	<i>Cyprinella venusta</i>	2				
	Brook Silversides	<i>Labidesthes sicculus</i>	41				
	Mosquitofish	<i>Gambusia affinis</i>	2				
		Total	95				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	3
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			36
							FV
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						3.00

Notes: Collection method - 20 ft seine 9/28/2020

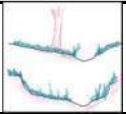
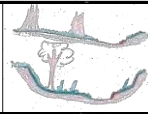
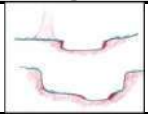
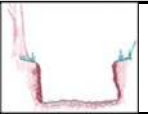
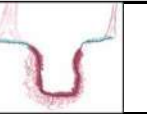
Condition Index	1.82
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## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-80
Name(s) of Evaluator(s)		Stream Name		
Christy Wild, Paul Wild, Caleb Wild, An Le		Channel III-F		

## 1. Channel Condition: Assess the cross-section of the stream and prevailing condition.

Visual Channel Condition Parameter	Optimal	Suboptimal	Marginal	Poor	Severe	CV
	 <p>Channel shows very little incision or widening and little or no evidence of erosion or unprotected banks. Indicators of stability include greater than 80% vegetative cover on the banks, stable point bars and bankfull benches may be present, mid-channel and transverse bars are rare or transient. The stream has access to active floodplain or fully developed bankfull benches. No bulkheading or riprap may be present.</p>	 <p>Channel is slightly incised and contains a few areas of active erosion. Indicators of instability include vegetative cover or natural rock protection only present along 60-80% of the Transect, point bars and bankfull benches are likely present and transient sediment is present along 10-40% of the stream bottom. The stream has access to bankfull benches or developed floodplains along portions of the reach. Channel may show evidence of past channel alteration, but should be exhibiting notable recovery of a natural channel. Bulkhead and riprap are limited to 1-25% of the Transect.</p>	 <p>Channel is incised or has had its course widened. Indicators of erosional scars on 40-60% of the Transect, vegetative cover or natural rock only found on 40-60% of the Transect, vertical or undercut banks, or nickpoints associated with headcuts may be present and portions of the channel may be widening while other portions of the channel are narrowing, and transient sediments are found in 40-60% of the natural stream bed or bottom. The stream does not have access to the active floodplain. Bulkheading or riprap is found along 25-50% of the Transect.</p>	 <p>Channel is over-widened or incised with vertically or laterally unstable banks. Visual indicators of over-widening and incision include near vertical banks with shallow root depths, erosional scars present along 60-80% of the Transect, vegetative cover or natural rock is limited to 20-40% of the Transect, substantial sediment deposition of uniform-size material is present along 60-80% of the Transect and point bars and bankfull benches are absent. The stream does not have access to an active floodplain. Bulkheading and riprap are present along 50-80% of the Transect.</p>	 <p>Channel is deeply incised or excavated with vertical or lateral instability in the stream bank. Indicators of instability include the streambed elevation located below the rooting depth, both banks are vertical or undercut, vegetative surface protection or natural rock is only found along 20% or less of the Transect, the bank is sloughing and erosional scars or raw banks present on 80-100% of the Transect and 80% or more of the natural streambed is covered by substantial sediment resulting in threaded channels. The stream does not have access to an active floodplain.</p>	
Score	5	4	3	2	1	1.00

Notes: No access to active floodplain, channelized, incision, erosional scars

## 2. Riparian Buffers: Assess both banks' 100-ft riparian areas along the entire Transect.

Riparian Buffers	Optimal	Suboptimal	Low Suboptimal	Poor	Severe	BV	
	Native plant species represent greater than 60% coverage with wetlands present within the Transect. No maintenance and/or grazing within the buffer. Riparian buffers that have been cleared of native plant species within two years of the assessment will automatically score Optimal.	Native plant species >60% coverage with no wetlands & no maintenance or grazing OR native community species 30-59% with wetlands & no maintenance or grazing within the buffer.	Native plant species 30-59% coverage with no wetlands & no maintenance or grazing activities present within the buffer.	Native plant species represents less than 30% coverage of native plant species with wetlands present and no maintenance or grazing activities present.	Native plant species represents less than 30% coverage of native plant species with no wetlands present and no maintenance or grazing activities present.		The area consists of one or more of the following: lawns; mowed or maintained right-of-way; grazing; sparsely vegetated non-maintained area; or other comparable condition. The presence or absence of wetlands and/or the presence of native plant communities does not affect this score.
Score	5	4.5	4	3.5	3	2	1

Notes: Maintained ROW, intake structure, riprap, forested area

Right Bank	% Riparian Area	90%	10%				100%	
	Score	2	4.5					
Left Bank	% Riparian Area	1%	62%	37%			100%	Rt Bk CI > 2.25
	Score	1	2	4.5				Lt Bk CI > 2.92

## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-80

## 3. Channel Alteration: Assess the extent of anthropogenic channel alterations.

Channel Alteration	Negligible	High Minor	Low Minor	High Moderate	Low Moderate	Severe	AV
	Channelization, dredging, alteration, or hardening absent. Stream has unaltered pattern or has normalized. No dams, dikes, levees, culverts, riprap, bulkheads, armor, drop structures or withdrawal structures. No channel incision.	<20% of stream reach is impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	20-40% of stream reach impacted by any of the listed channel alterations. Alteration or channelization is present, usually adjacent to structures such as bridge abutments or culverts. Evidence of past alteration may be present, but stream pattern and stability have recovered; recent alteration is not present. Withdrawals present, but no notable affect on flow.	Between 41 - 60% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. Withdrawals, although large enough to affect flow, have no observable effects on habitat or biota.	Between 61 - 80% of reach is impacted by any of the channel alterations listed above. If the stream has been channelized, normal stable stream meander pattern has not recovered. All Transects, regardless of percent of channel alteration, where withdrawals affect flow, habitat, and biota will be scored as Low Moderate.	Greater than 80% of reach is impacted by any of the channel alterations listed above. Greater than 80% of banks shored with matting, gabion, riprap, or cement. Channels entirely lined with riprap. Withdrawals are large enough to have severe loss of flow and little to no habitat or biota. The channel is deeply channelized or structures are present that prevent access to the floodplain or dam operations prevent flood flows.	
Score	5	4.5	4	3	2	1	1.00

Notes: 100% Channelization, riprap, no floodplain access

## 4. In-Stream Macroinvertebrate Observation: Assess biological integrity of the stream using a rapid sampling method for macroinvertebrate species.

In-Stream Macroinvertebrate Observation	Organism	Taxonomic Level	Quantity	Tolerance Value	Subtotal	MV
	Mayfly	Order Ephemeroptera	4	3	12	
	Gilled snail	Order Mesogastropoda	3	3	9	
	Mussel	Order Heterodonta	3	6	18	
	Crayfish	Family Cambaridae	1	5	5	
	Damselfly	Suborder Zygoptera	6	7	42	
	Dragonfly	Suborder Anisoptera	1	5	5	
	Scud	Order Amphipoda	2	6	12	
	Lunged snail	Order Limnophila	27	7	189	
		Total	47		292	
	<i>Melanoides tuberculata</i>	Family Thiaridae	107	none		
HBI					6.21	2.00

&lt;3.77 Optimal (5), 3.77-4.52 Suboptimal (4), 4.53-5.27 Marginal (3), &gt;5.27 Poor (2), 0 Severe (1)

Notes: 9/18/2020



## Theoretical

## Level 2 Stream Condition Assessment Data Form

File Number	Applicant	8 Digit HUC	Date	Transect Number
SWG-2018-00952	MCDD6	12040102	9/28/2020	T-80

5. Regionalized Index of Biotic Integrity (Fish): Assess function of perennial streams, perennial pools, and intermittent streams through sampling fish populations.

Regionalized Index of Biotic Integrity (Fish)	Common Name	Scientific Name	Quantity				
	Brook Silversides	<i>Labidesthes sicculus</i>	118				
	Total		118				
	Ecoregion 35 - South Central Plains Region			Scores			Score
	HUC 120401020212 - Panther Branch-Spring Creek 76 KM <sup>2</sup>			5	3	1	
	Total Number of fish species			See Table			1
	Number of native cyprinid species			>4	2--4	<2	1
	Number of benthic invertivore sp.			>4	3--4	<3	1
	Number of sunfish species			>4	3--4	<3	1
	Number of intolerant species			>3	2--3	<2	1
	Percent individuals as tolerant (excluding gambusia)			<26%	26--50%	>50%	5
	Percent of individuals omnivores			<9%	9--16%	>16%	5
	Percent individuals invertivores			>65%	33--65%	<33%	5
	Percent individuals as piscivores			>9%	5--9%	<5%	1
	Number of individuals in the sample per seine haul			>28	14-28	<14	3
	Percent non-native species			<1.4%	1.4--2.7%	>2.7%	5
	Percent individuals with disease or other anomaly			<0.6%	0.6--1.0%	>1.0%	5
				Aquatic Life Use Score			34
							<b>FV</b>
	Aquatic Life Use Score: ≥52 Exceptional (5), 42-51 High (4), 36-41 Intermediate (3), <36 Limited (2), 0 Severe (1)						2.00

Notes: Collection method - 20 ft seine, very deep 9/28/2020

Condition Index	1.72
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## Appendix H: Stream Condition Assessment Summary Form

# Stream Condition Assessment Summary Form

Project #	Applicant		
SWG-2018-00952	Montgomery County Drainage District Number 6		
Evaluators		HUC	
Christy Wild, Paul Wild, Caleb Wild, Elizabeth Silvy, An Le		Dr. 12040102	
Stream Name	Transect ID	Actual CI	Theoretical CI
Channel III-A	T-1	1.82	1.82
Channel III-A	T-2	1.74	1.74
Channel III-A	T-3	1.78	1.78
Channel III-A	T-4	1.77	1.77
Channel III-A	T-5	1.74	1.74
Channel III-A	T-6	1.53	1.53
Channel III-A	T-7	1.57	1.57
Channel III-A	T-8	1.96	1.96
Channel III-A	T-9	1.76	1.76
Channel III-A	T-10	1.93	1.93
Channel III-A & C	T-11	1.58	1.58
Channel III-C	T-12	1.84	1.84
Channel III-C	T-13	2.09	2.09
Channel III-C	T-14	2.32	2.32
Channel III-C	T-15	1.72	1.72
Channel III-C	T-16	2.19	2.19
Channel III-C	T-17	1.93	1.93
Channel III-C	T-18	2.29	2.29
Channel III-C	T-19	2.09	2.09
Channel III-C	T-20	2.24	2.24
Channel III-C	T-21	2.34	2.34
Channel III-C	T-22	2.21	2.21
Channel III-C	T-23	2.02	2.02
Channel III-C	T-24	1.63	1.63
Channel III-C	T-25	2.09	2.09
Channel III-C	T-26	2.26	2.26
Channel III-C	T-27	2.03	2.03
Channel III-C	T-28	2.21	2.21
Channel III-C	T-29	2.63	2.63
Channel III-C	T-30	1.87	1.87
Channel III-C	T-31	2.44	2.44
Channel III-C	T-32	2.46	2.46
Channel III-E	T-33	1.58	1.58
Channel III-E	T-34	2.38	2.38

# Stream Condition Assessment Summary Form

Project #	Applicant		
SWG-2018-00952	Montgomery County Drainage District Number 6		
Evaluators		HUC	
Christy Wild, Paul Wild, Caleb Wild, Elizabeth Silvy, An Le		Dr. 12040102	
Stream Name	Transect ID	Actual CI	Theoretical CI
Channel III-E	T-35	2.16	2.16
Channel III-E	T-36	2.06	2.06
Channel III-E	T-37	1.91	1.91
Channel III-E	T-38	2.28	2.28
Channel III-D	T-39	2.44	2.44
Channel III-D	T-40	2.59	2.59
Channel III-D	T-41	2.30	2.30
Channel III-D	T-42	2.20	2.20
Channel III-D	T-43	2.37	2.37
Channel III-D	T-44	1.99	1.99
Channel III-D	T-45	1.55	1.55
Channel III-D	T-46	1.79	1.79
Channel III-D	T-47	2.19	2.19
Channel III-D	T-48	2.39	2.39
Channel III-D	T-49	2.38	2.38
Channel III-D	T-50	1.78	1.78
Channel III-D	T-51	1.79	1.79
Channel III-D	T-52	2.00	2.00
Channel III-D	T-53	2.00	2.00
Channel III-D	T-54	1.84	1.84
Channel III-D	T-55	2.03	2.03
Channel III-D	T-56	2.42	2.42
Channel III-D	T-57	2.45	2.45
Channel III-D	T-58	1.82	1.82
Channel III-D	T-59	2.06	2.06
Channel III-D	T-60	1.80	1.80
Channel III-D & F	T-61	1.72	1.72
Channel III-F	T-62	1.87	1.87
Channel III-F	T-63	1.83	1.83
Channel III-F	T-64	2.08	2.08
Channel III-F	T-65	2.07	2.07
Channel III-F	T-66	2.23	2.23
Channel III-F	T-67	2.10	2.10
Channel III-F	T-68	2.00	2.00



## Stream Condition Assessment Summary Form

<b>Project #</b>	<b>Applicant</b>		
SWG-2018-00952	Montgomery County Drainage District Number 6		
<b>Evaluators</b>		<b>HUC</b>	
Christy Wild, Paul Wild, Caleb Wild, Elizabeth Silvy, An Le		Dr. 12040102	
<b>Stream Name</b>	<b>Transect ID</b>	<b>Actual CI</b>	<b>Theoretical CI</b>
Channel III-F	T-69	2.00	2.00
Channel III-F	T-70	1.82	1.82
Channel III-F	T-71	1.69	1.69
Channel III-F	T-72	1.69	1.69
Channel III-F	T-73	1.69	1.69
Channel III-F	T-74	1.89	1.89
Channel III-F	T-75	1.79	1.79
Channel III-F	T-76	1.70	1.70
Channel III-F	T-77	2.13	2.13
Channel III-F	T-78	1.71	1.71
Channel III-F	T-79	1.82	1.82
Channel III-F	T-80	1.72	1.72
<b>RCI</b>		<b>2.00</b>	<b>2.00</b>
<b>dRCI</b>		<b>0.00</b>	
<b>Impact Factor</b>		<b>1</b>	
<b>Linear Feet of Impacts</b>		<b>43,665</b>	
<b>Debits</b>		<b>0.00</b>	