

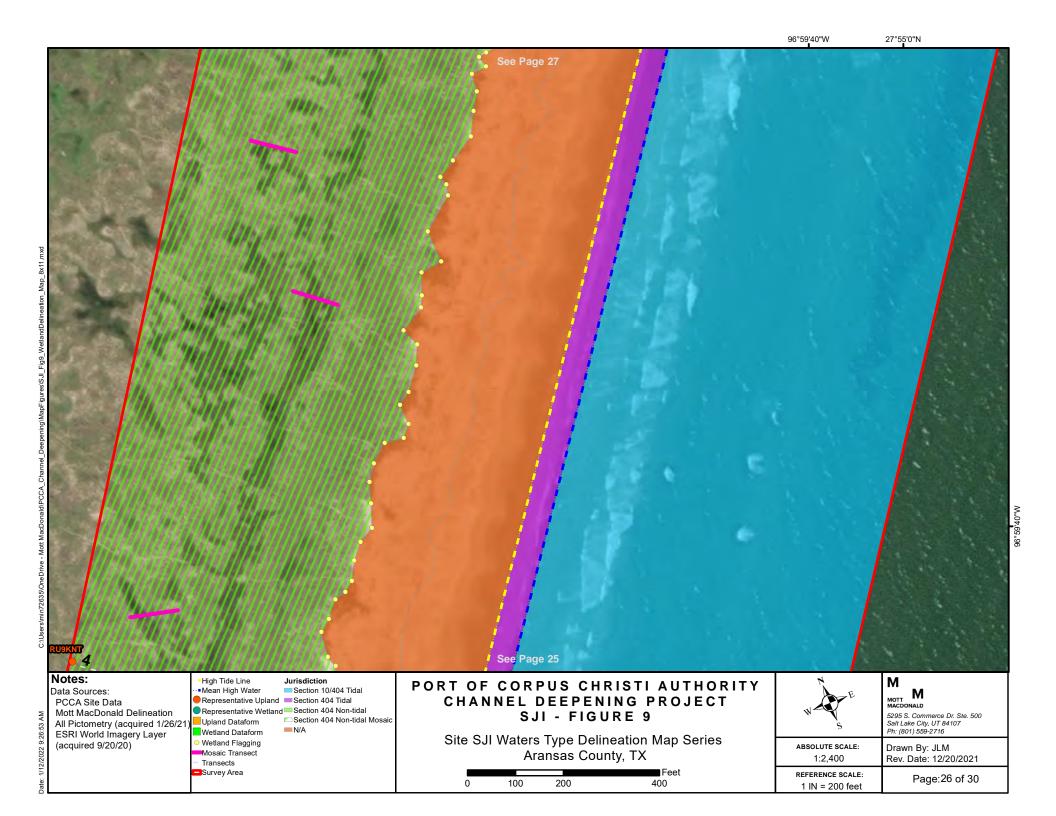
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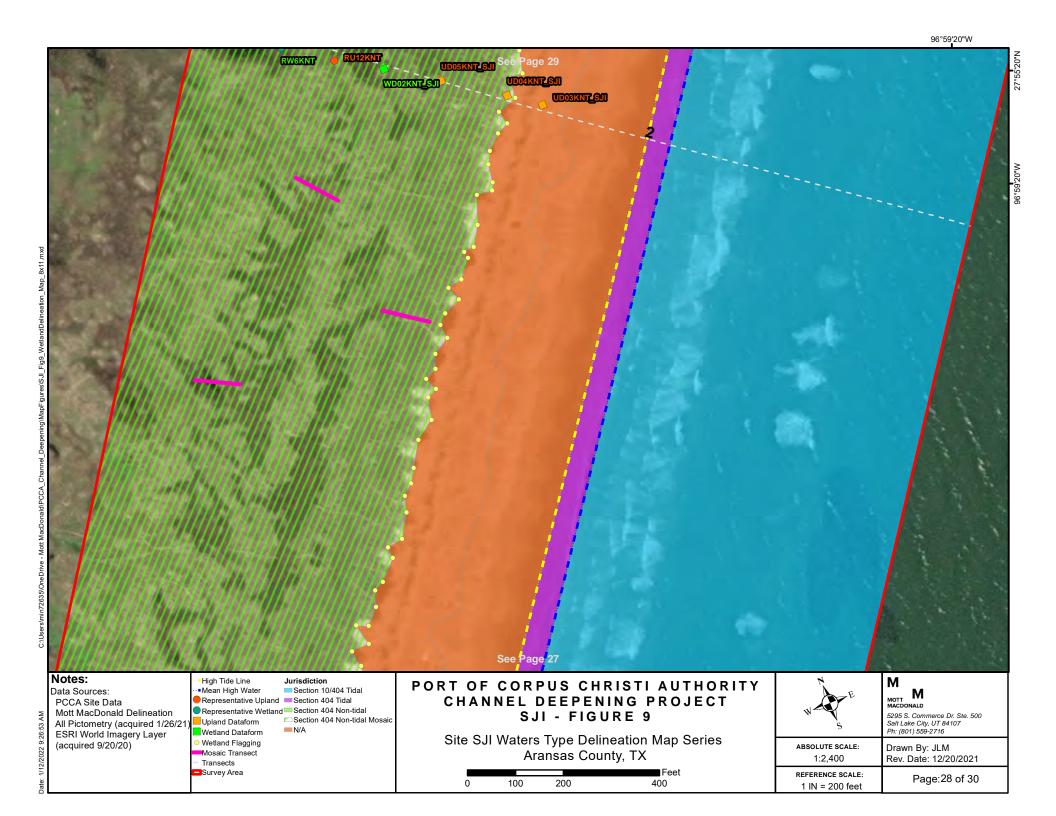
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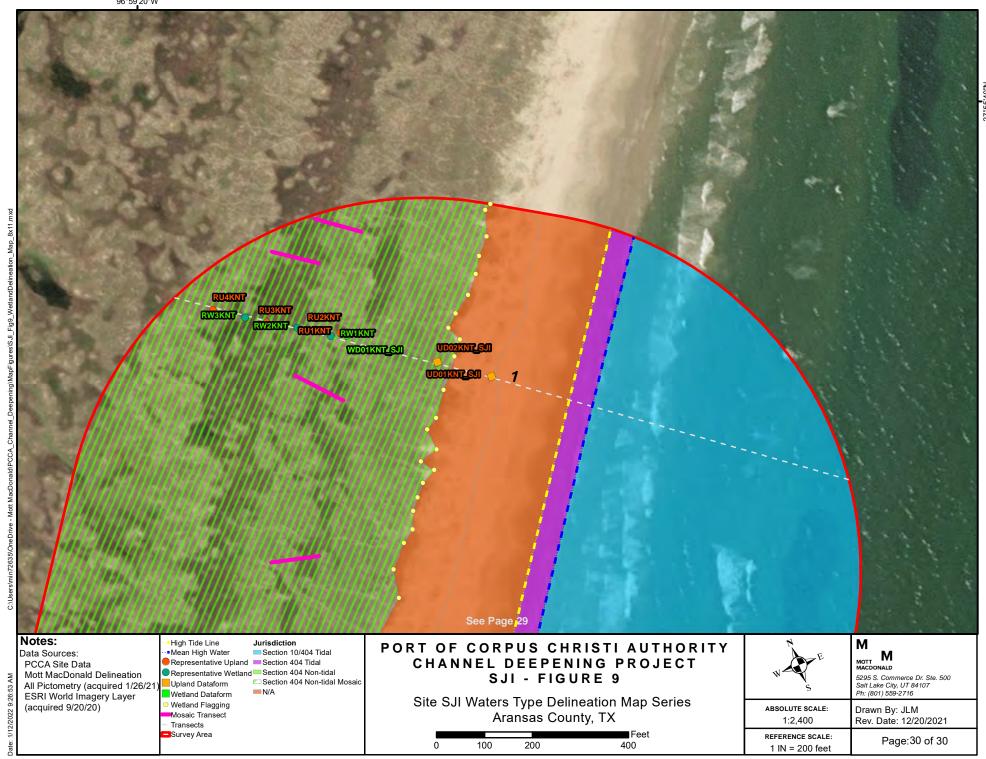
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1 IN = 200 feet







B. Waters and Wetlands Delineation Survey Workplan



Waters and Wetlands Delineation Survey Workplan Corpus Christi Ship Channel Deepening Project

Prepared for: Port of Corpus Christi Authority

April 21, 2021

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Figure 2: Maps Showing Waters and Wetlands Delineation Survey Workplans for 6 BU Sites

1

1 Project Summary

The Port of Corpus Christi Authority (PCCA) has requested that Mott MacDonald conduct a formal terrestrial waters and wetlands delineation and habitat characterization, including a High Tide Line (HTL)/Mean High Water (MHW) line tidal elevation survey of six (6) separate proposed Beneficial Use (BU) sites located near the Corpus Christi Ship Channel in Port Aransas, Nueces and Aransas Counties, Texas (See Figure 1). The survey will cover the BU project sites and a 500-foot buffer area around each location. BU sites to be surveyed include HI-E (site approx. 138.7 acres, buffered area approx. 269.3 acres), SS2 (site approx. 94.8 acres, buffered area approx. 250.6 acres), SS1 (site approx. 307.6 acres, buffered area approx. 590.0 acres), PA4 (site approx. 163.1 acres, buffered area approx. 294.1 acres), MI (site approx. 362.3 acres, buffered area approx. 986.0 acres; actual surveyed area 764.6 due to restricted access to survey private property), and SJI (site approx. 593.1 acres, buffered area approx. 1,480.2 acres). The total area to be surveyed for the 6 BU sites, plus the 500-foot buffer is approximately 3,870 acres. Results of the waters and wetlands delineation, habitat characterization, and HTL/MHW line tidal elevation surveys will be used to support a Draft Environmental Impact Statement (EIS) being prepared by the U.S. Army Corps of Engineers (USACE) for the PCCA Ship Channel Deepening Project.

2 Waters and Wetlands Delineation Survey Workplan

Prior to conducting the waters and wetlands delineation, habitat characterization, and HTL/MHW line tidal elevation surveys, Mott MacDonald developed this field survey workplan (workplan) using previously developed field workplans for BU sites SJI, HI-E, SS1, and PA4 provided by PCCA (developed by previous consultant) and newly developed field workplans created by Mott MacDonald for BU sites MI and SS2. The surveys will cover the BU project sites and a 500-foot buffer area around each location. The waters and wetlands delineation and habitat characterization will be conducted in accordance with the 1987 USACE Wetlands Delineation Manual and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region, which requires survey transects for areas greater than 5 acres. Mott McDonald will also conduct investigations necessary to determine the likely jurisdictional status of any identified wetlands under USACE/Environmental Protection Agency (EPA) regulations or guidance resulting from applicable U.S. Supreme Court decisions.

Mott MacDonald developed the survey workplan's baseline and transects in accordance with the 1987 USACE Wetland Delineation Manual procedures found in Part IV (Methods), Section D (Routine Determinations), Subsection 2 (Areas Greater than 5 Acres in Size), Step 18 (Establish a baseline) and Step 19 (Determine the required number and position of transects). Survey baselines were developed using the BU site boundary paralleling the shoreline or ship channel. The baseline length was used to determine the required number of transects in accordance with Step 19, as referenced above. To be conservative, the survey plan was then developed by adding one additional transect to the number required and using that number of transects to divide the baseline into equal segments. At a minimum, Mott MacDonald will include one transect per segment; however, based upon the transects provided or the need to pick up unique vegetation communities, the survey plan may establish multiple transects within a baseline segment.

The survey workplan, including baseline and transects developed for BU sites HI-E, SS1, SS2, PA4, MI, and SJI are summarized in Table 1 and map figures are provided in Figure 2. In addition to the data collected along transects, Mott MacDonald will conduct routine wetland determinations for wetlands and/or waters that occur between transects, as needed. Pedestrian meander surveys will be conducted between transects to confirm that all wetlands/waters have been identified within the BU sites and their 500-foot adjacent areas. Note that surveys will be conducted on lands with approved PCCA access only and that transects and resource boundary delineations will stop at private property parcel boundaries, where appropriate.

Table 1: Survey Workplan Summary

Site	Baseline Length (mile)	Baseline Segments (number)	Segment Length (mile)	Transects (number)	Transect Length Total (mile)
HI-E	0.85	4	0.21	5	2.4
SS2	1.16	6	0.20	9	2.8
SS1	1.89	6	0.32	9	3.7
PA4	1.19	6	0.20	7	2.2
MI	5.14	14	0.37	14	4.2
SJI	7.19	20	0.36	20	6.5
Total	17.42	56	N/A	64	21.8

HTL and MHW tidal elevations will also be recorded for each BU project site. The HTL elevation for this area (+2.76 ft NAVD88) has been recently verified by USACE (SWG-2015-00417). HTL is the upper limit of USACE jurisdiction along tidal shorelines, and in the absence of jurisdictional wetlands, which may extend above the HTL. The MHW line elevation for this area (+1.01 ft NAVD88) was obtained from the National Oceanic and Atmospheric Administration's (NOAA) Tide Station No. 8775296: USS Lexington. The MHW line demarcates the upper limit of "navigable waters" and USACE jurisdiction under Section 10 of the Rivers and Harbors Act of 1899."

Locations and boundaries of potential jurisdictional waters and wetlands will be identified and recorded using Global Positioning System (GPS) equipment in accordance with USACE's Standard Operating Procedures (SOP) for Recording and Submitting Jurisdictional Delineations Using GPS and GIS Tools and Technologies dated 04/21/2016.

Figure 1. Map Showing Location of 6 BU Sites

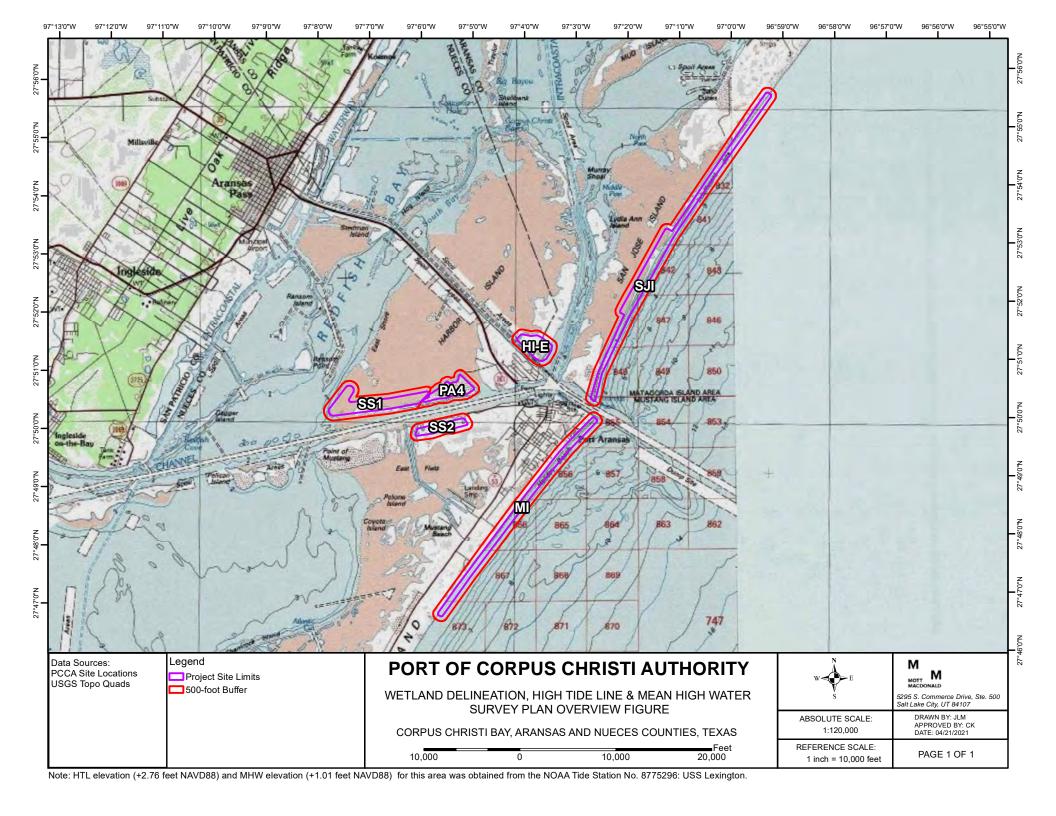
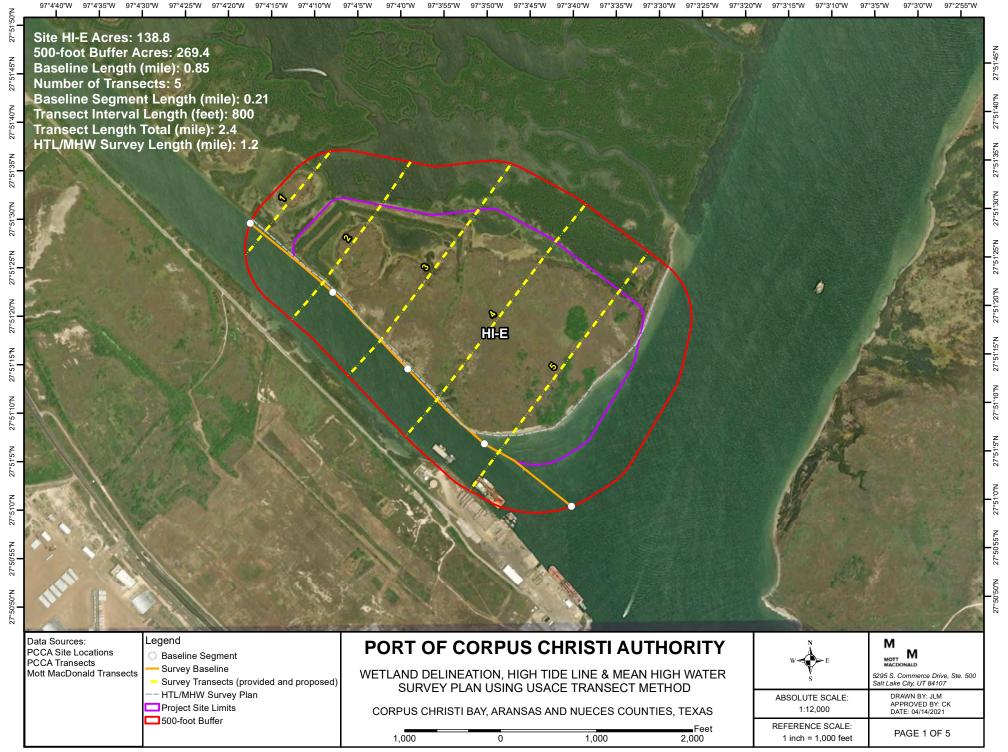
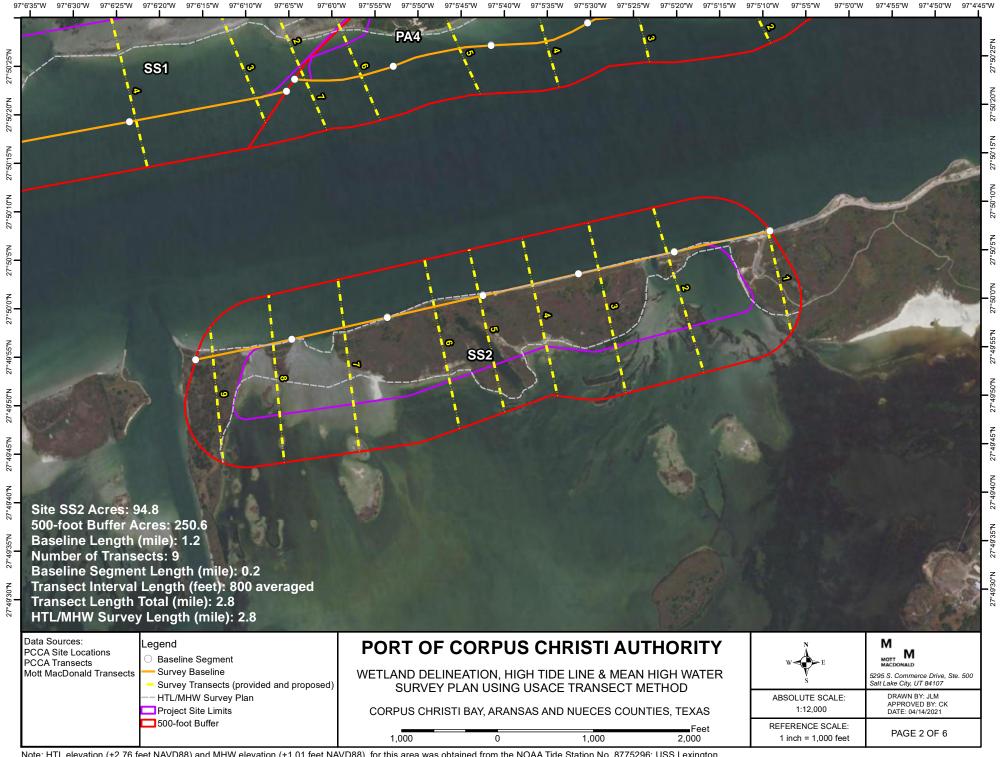
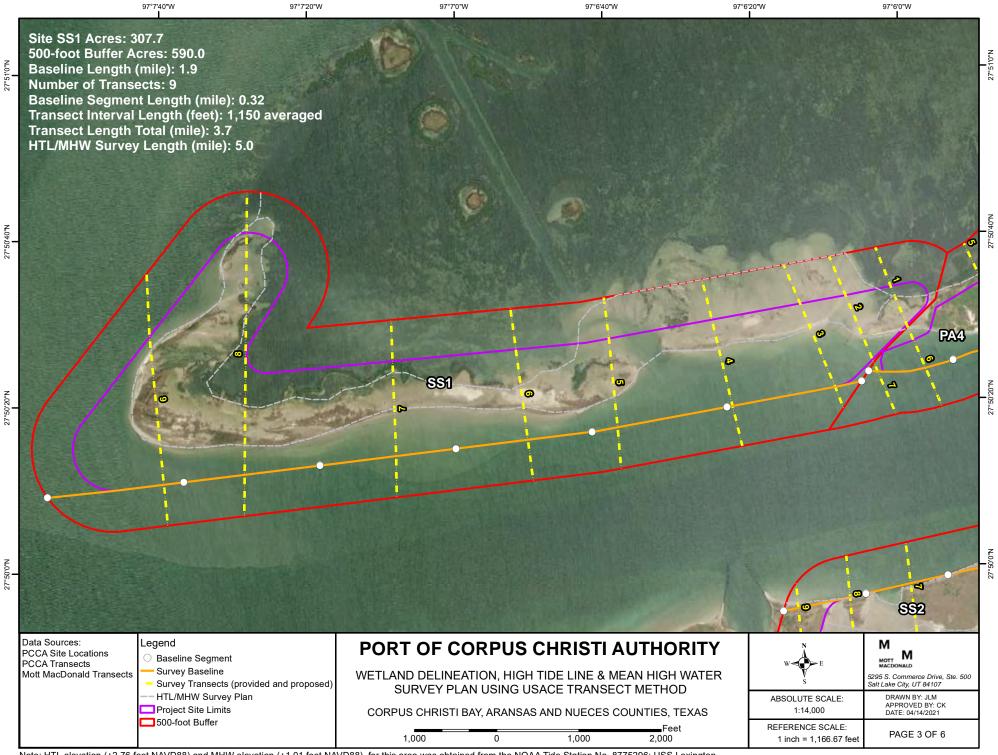
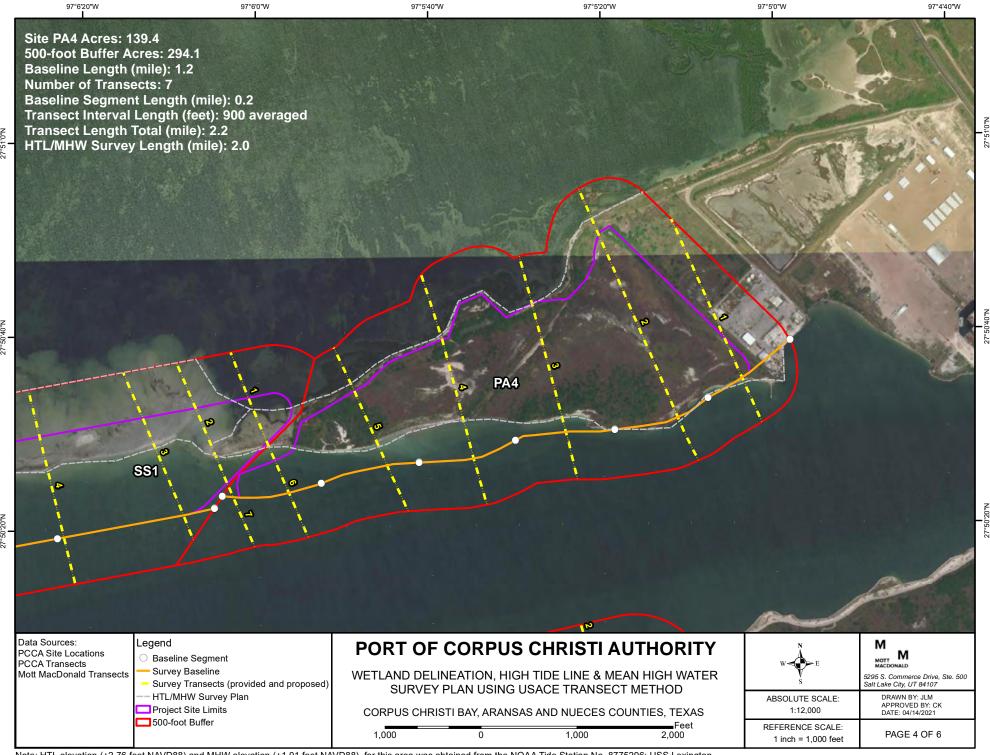


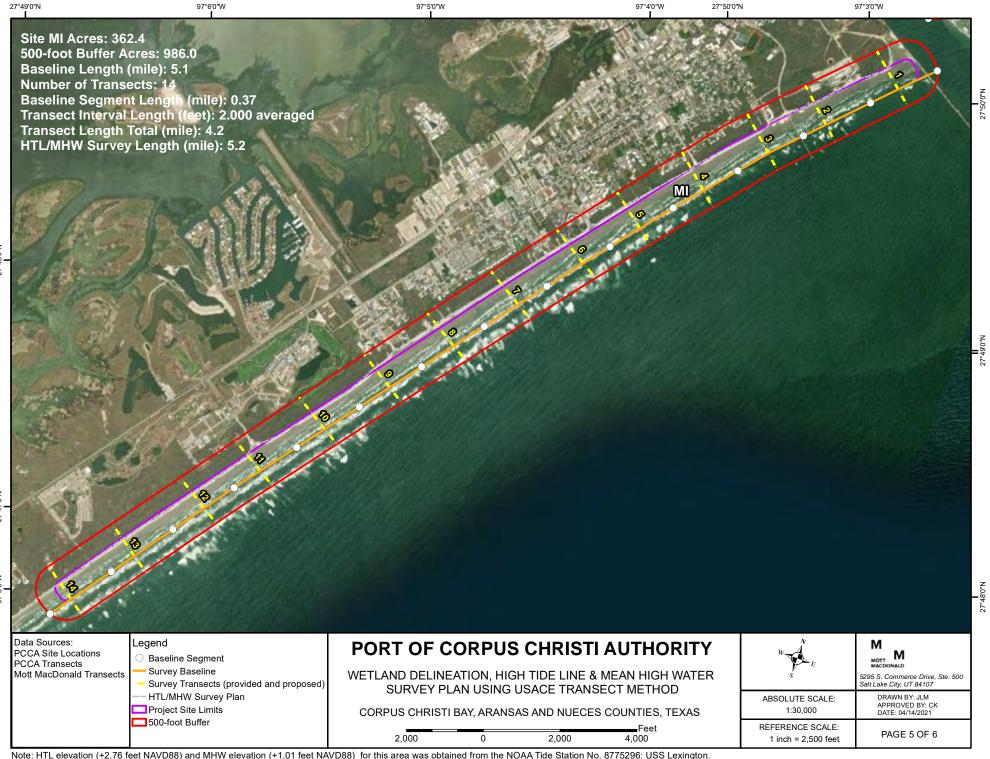
Figure 2. Maps Showing Waters and Wetlands Delineation Survey Workplans

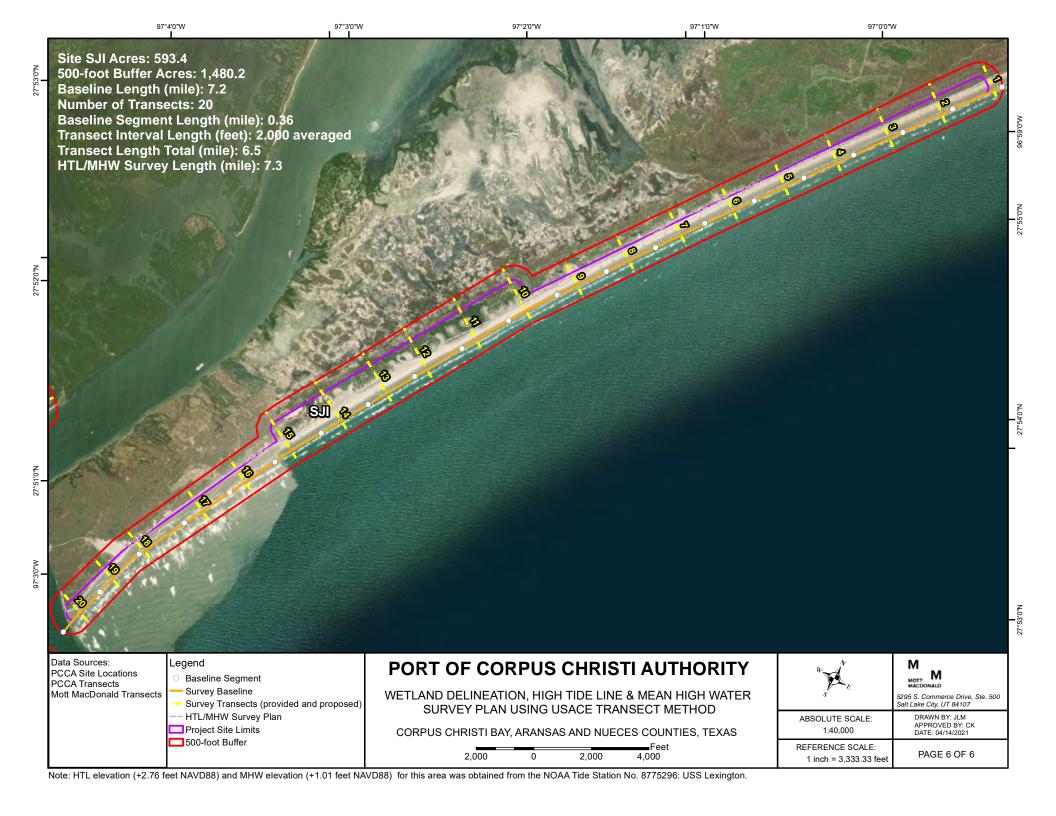


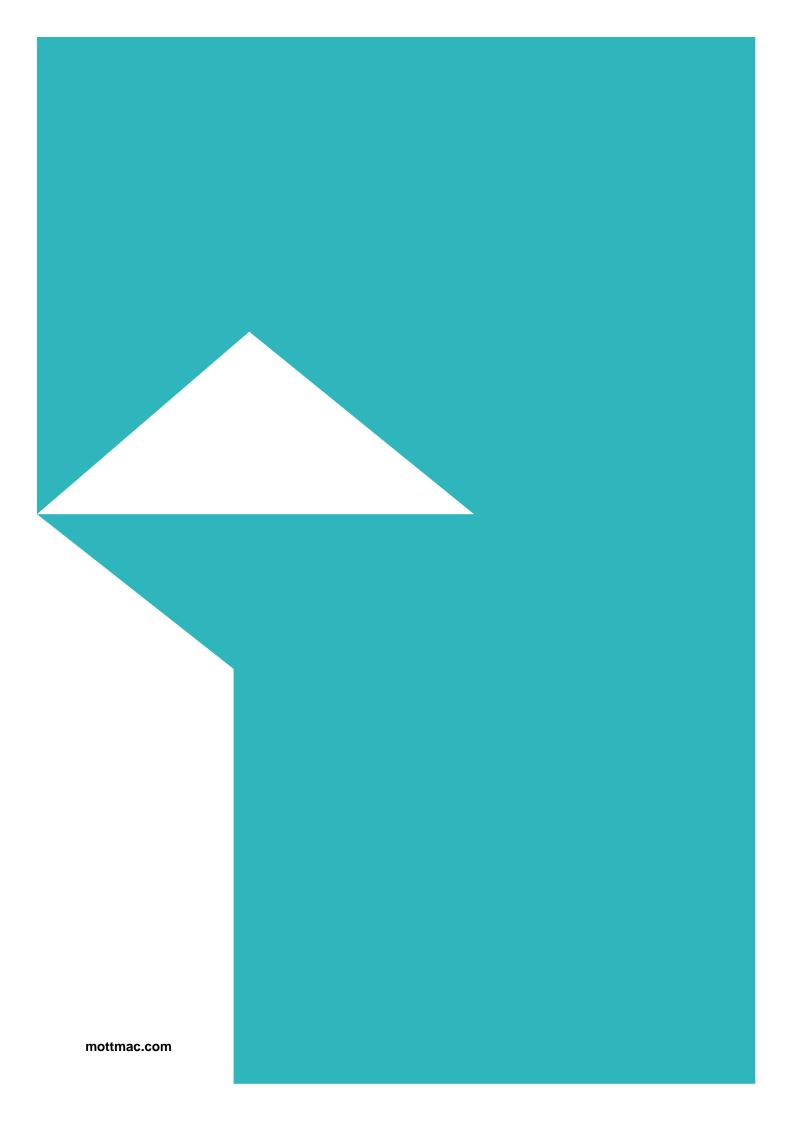












C. USACE Wetland Determination Data Forms

Project/Site: San Jose Island Cit	_{ty/County:} Aransas County	Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: T	ΓX Sampling Point: UD01BPH_SJI
Investigator(s): BPH Landform (hillslope, terrace, etc.): Barrier island - gulf beach Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.900	ection, Township, Range: N/A	
Landform (hillslope, terrace, etc.): Barrier island - gulf beach Lo	cal relief (concave, convex, none):	None Slope (%): 2-3
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.900	773 Long: -97.00	9687 _{Datum:} NAD83
Soil Map Unit Name: Not mapped	NV	VI classification: M2USP
Are climatic / hydrologic conditions on the site typical for this time of year?		
Are Vegetation N , Soil N , or Hydrology N significantly dis		
Are Vegetation N, Soil N, or Hydrology N naturally proble	ematic? (If needed, explain a	any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s		
Likedrooks tip Vogstetion Proport?		
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	Is the Sampled Area	V
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes X No X Yes X No X No X	within a Wetland?	Yes No _^
Remarks:		
Although dominant hydrophytic vegetation and w	vetland hydrology were r	present, the sampled area
was determined to not be within a wetland due to	, , ,	•
	•	
HADBOLOGA		
HYDROLOGY Westland Hydrology Indicators:	Socons	dary Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)		rface Soil Cracks (B6)
Surface Water (A1) Surface Water (A1) Aquatic Fauna (B13)	_	arsely Vegetated Concave Surface (B8)
High Water Table (A2) High Water Table (A2) Marl Deposits (B15) (I		ainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odd		oss Trim Lines (B16)
	-	y-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced		ayfish Burrows (C8)
☑ Drift Deposits (B3) ☐ Recent Iron Reduction	n in Tilled Soils (C6)	turation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C	7) <u>v</u> Ge	eomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Rem	narks) 🔲 Sh	allow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	=	.C-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Spl	hagnum moss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No X Depth (inches): _		
Water Table Present? Yes No X Depth (inches): _ Saturation Present? Yes No X Depth (inches): _		X
Saturation Present? Yes No X Depth (inches): _ (includes capillary fringe)	wetiand Hydrolog	gy Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:	
Remarks:		
Wetland hydrology was present.		

VEGETATION (Four Strata) – Use scientific names of plants.

6 Cover	Dominant Species?	Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 1 (B)
			That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant
			1
			1
			B ((B : (O :
			Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
		er	OBL species x 1 =
20% of	total cover:		FACW species x 2 =
			FAC species x 3 =
			FACU species x 4 =
			UPL species x 5 =
			Column Totals: (A) (B)
			Davidona ladou - D/A -
			Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			X 2 - Dominance Test is >50%
			3 - Prevalence Index is ≤3.0 ¹
			Problematic Hydrophytic Vegetation ¹ (Explain)
20 /0 01	total cover.		1
5	Υ	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3			Definitions of Four Vegetation Strata:
<u>. </u>			Deminions of Four Vegetation Strata.
			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of
			more in diameter at breast height (DBH), regardless of height.
			
			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
			than 5 m. bbr and greater than 5.25 tt (1 m) tail.
			Herb – All herbaceous (non-woody) plants, regardless
			of size, and woody plants less than 3.28 ft tall.
			Woody vine – All woody vines greater than 3.28 ft in
			height.
20% of	total cover:	10	
			Hydrophytic
			Vegetation
20% of	total cover:		riesent: les ··· NO
			4
	20% of 5 20% of	= Total Cover: 20% of total cover: = Total Cover: 5	= Total Cover 20% of total cover: = Total Cover 20% of total cover: 5 Y FACW N FAC N FACU N UPL 0 = Total Cover 20% of total cover: 10 = Total Cover 20% of total cover: 20% of total cover:

SOIL Sampling Point: UD01BPH_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of	indicators.)	
Depth	<u>Matrix</u>			ox Feature:					
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Remarks	<u> </u>
0-18	10YR 7/2	100					Sand		
				_					
									_
				_					
1Typo: C=C	oncentration, D=De _l	olotion DM-D	oduced Matrix M	S-Mackad	I Sand Gr	oine	² Location: PL	_=Pore Lining, M=Ma	utriv
	Indicators: (Applic					airio.		r Problematic Hydri	
Histosol		Jabio 10 ali 2.	Polyvalue B			PPSTI		ck (A9) (LRR O)	o como :
_	oipedon (A2)		Thin Dark S				· —	ck (A10) (LRR S)	
	stic (A3)		Loamy Much					Vertic (F18) (outside	e MLRA 150A.B)
I =	en Sulfide (A4)		Loamy Gley	-		. •,		Floodplain Soils (F1	
	d Layers (A5)		Depleted Ma	,	/			us Bright Loamy Soils	
	Bodies (A6) (LRR F	P, T, U)	Redox Dark		⁻ 6)		(MLRA		` ,
5 cm Μι	ıcky Mineral (A7) (L	RR P, T, U)	Depleted Da	ark Surface	(F7)		<u></u> ⊟ Red Pare	nt Material (TF2)	
	esence (A8) (LRR l	J)	Redox Depr	,	8)			llow Dark Surface (T	F12)
	ıck (A9) (LRR P, T)		Marl (F10) (I				U Other (Ex	plain in Remarks)	
	d Below Dark Surfac	ce (A11)	Depleted Oc		•		_ 3		
	ark Surface (A12)	MI DA 450A\	Iron-Mangar					ors of hydrophytic ve	
	rairie Redox (A16) (lucky Mineral (S1) (Umbric Surf			, U)		nd hydrology must be s disturbed or probler	·
_	Gleyed Matrix (S4)	LKK 0, 3)	Reduced Ve			ΛΔ 150R)		disturbed of probler	nauc.
	Redox (S5)		Piedmont FI						
	Matrix (S6)			-		•	RA 149A, 153C, 1	53D)	
_	rface (S7) (LRR P, :	S, T, U)		J	, ,	, ,	, ,	,	
Restrictive	Layer (if observed)	:							
Type:			<u> </u>						
Depth (in	ches):						Hydric Soil Pr	esent? Yes	No X
Remarks:									
Н	ydric soil was	not pres	ent.						

Project/Site: San Jose Island City/C	County: Aransas County Sampling Date: 10/19/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD01KNT_SJ
Investigator(s): CSK, KNT Section	on Township Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - gulf beach Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.92739	relief (concave, convex, none): None Slope (%): 0-1
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.92739	9 Long: -96.987692 Datum: NAD83
Soil Map Unit Name: Beaches	NWI classification: M2USP
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation \underline{N} , Soil \underline{N} , or Hydrology \underline{N} significantly distur	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation ${\color{red}N}$, Soil ${\color{red}N}$, or Hydrology ${\color{red}N}$ naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes No X
Hydrophytic Vegetation Present? Yes X No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes X No	within a Wetland? Yes No _^
Remarks:	
Although dominant hydrophytic vegetation and we	·
was determined to not be within a wetland due to t	he absence of hydric soil.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRi	·
Saturation (A3) Hydrogen Sulfide Odor (C	
☐ Water Marks (B1) ☐ Oxidized Rhizospheres a ☐ Sediment Deposits (B2) ☐ Presence of Reduced Iro	
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	(s) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):	
Water Table Present? Yes No _X Depth (inches): Saturation Present? Yes No _X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was present.	
, 3, 1	

VEGETATION (Four Strata) – Use scientific names of plants.

= Total of total co	Cover	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/E Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total of total co	Cover /er:	That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/E) Prevalence Index worksheet:
= Total of total co	Cover Cover Cover FAC	Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/E Prevalence Index worksheet:
= Total of total co	Cover /er:	Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/E Prevalence Index worksheet:
= Total of total co	Cover Cover FAC	Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:
= Total of total co	Cover /er: Cover /er: FAC	That Are OBL, FACW, or FAC: 75 (A/E Prevalence Index worksheet:
= Total of total co	Cover /er: Cover /er: FAC	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species
= Total of total co	Cover Cover Cover FAC	Total % Cover of: OBL species
= Total of total co	Cover Cover Cover Cover FAC	OBL species
= Total of total co	/er:	FACW species x 2 =
f total co	/er:	FAC species x 3 =
= Total of total co	Cover	FACU species x 4 =
= Total of total co	Cover /er:	UPL species x 5 = (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
= Total of total co	Cover /er:	Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
= Total of total co	Cover /er:	Prevalence Index = B/A =
= Total of total co	Cover /er:	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
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= Total of total co	Cover /er:	1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
= Total (of total co Y Y	Cover /er:	 X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
= Total of total co	Cover ver: FAC	3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
= Total (of total co	/er: FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
of total co	/er: FAC	¹ Indicators of hydric soil and wetland hydrology must
Y	FAC	
Υ		
Υ		be present, unless disturbed or problematic.
. <u></u>	L ∧ (`\∧/	
		Definitions of Four Vegetation Strata:
Y	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of
Y	UPL	more in diameter at breast height (DBH), regardless o
		height.
		Sapling/Shrub – Woody plants, excluding vines, less
		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
		Herb – All herbaceous (non-woody) plants, regardless
		of size, and woody plants less than 3.28 ft tall.
		Woody vine – All woody vines greater than 3.28 ft in
		height.
= Total	Cover	
of total co	_{/er:} 1	
	<u></u>	
	Cover	Hydrophytic Vegetation
-		Present? Yes X No
i total co	/ei	
•	= Total Co	= Total Cover f total cover:

SOIL Sampling Point: UD01KNT_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of	indicators.)	
Depth	Matrix			ox Features		. 2			
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Remarks	<u> </u>
0-20	10YR 5/2	100					Sand		
				_					
									_
	-								
¹Type: C=C	oncentration, D=De _l	 oletion_RM=R	educed Matrix M	S=Masked	Sand Gr	ains	² Location: PL	_=Pore Lining, M=Ma	ntrix
	Indicators: (Applic					uiiio.		r Problematic Hydri	
☐ Histosol			Polyvalue B			RRSTI		ck (A9) (LRR O)	
_	oipedon (A2)		Thin Dark S				· —	ck (A10) (LRR S)	
	stic (A3)		Loamy Muck					Vertic (F18) (outside	e MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gley	-			Piedmont	Floodplain Soils (F1	9) (LRR P, S, T)
Stratified	d Layers (A5)		Depleted Ma	atrix (F3)			<u> </u>	us Bright Loamy Soils	s (F20)
	Bodies (A6) (LRR F		Redox Dark	Surface (F	⁻ 6)		☐ (MLRA	,	
	ıcky Mineral (A7) (L		Depleted Da					nt Material (TF2)	
	esence (A8) (LRR U	J)	Redox Depr	,	8)			llow Dark Surface (T	F12)
	ick (A9) (LRR P, T)	(044)	Marl (F10) (I		/MII DA 4	-4\	U Other (Ex	plain in Remarks)	
	d Below Dark Surfac ark Surface (A12)	æ (ATT)	☐ Depleted Oc ☐ Iron-Mangar		•		T) ³ Indicate	ors of hydrophytic ve	notation and
	rairie Redox (A16) (MLRA 150A)	Umbric Surfa					id hydrology must be	-
	lucky Mineral (S1) (Delta Ochric			, •,		disturbed or probler	·
_	Gleyed Matrix (S4)	,	Reduced Ve			0A, 150B)			
	Redox (S5)		Piedmont FI						
Stripped	Matrix (S6)		Anomalous	Bright Loar	my Soils (F20) (MLR	RA 149A, 153C, 15	53D)	
	rface (S7) (LRR P,								
Restrictive	Layer (if observed)	:							
Type:			<u> </u>						V
Depth (in	ches):						Hydric Soil Pro	esent? Yes	No X
Remarks:	,		1						
Н	ydric soil was	s not pres	ent.						

Project/Site: San Jose Isla	and		Citv/C	ountv: Ara	nsas Co	unty	Sampling Date:	10/18/2021
Applicant/Owner: Port of C	orpus Chri	sti Auth	ority	, <u></u>		State: TX	Sampling Point	UD02BPH_SJI
Investigator(s): BPH Section, Township, Range: N/A Landform (hillslope, terrace, etc.): Barrier island - beach dune Local relief (concave, convex, none): Convex Slope (%): 15-20								
Landform (hillslope, terrace, etc.	Barrier is	sland - b	each dune _{Local}	relief (conca	ve. convex.	none): Convex	(Slo	_{ope (%):} 15-20
Subregion (LRR or MLRA): LF	RR T / MLF	RA 150E	3 Lat. 27.90092	5	Long:	-97.009933	ois	atum: NAD83
Subregion (LRR or MLRA): LF Soil Map Unit Name: Beach	es				Long	NWI classific	ation: M2USI))
Are climatic / hydrologic conditi								
						l Circumstances" p		(No
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$, or Hydro	ology N	significantly disturb	tio?				<u>- 100</u>
						explain any answe		
SUMMARY OF FINDING			· · ·	pling poi	nt locatio	ons, transects	, important i	eatures, etc.
Hydrophytic Vegetation Prese Hydric Soil Present? Wetland Hydrology Present?	ent? Ye	es	No X	Is the Sam	pled Area			
Hydric Soil Present?	Ye	es	No X			Yes	X	
Wetland Hydrology Present?	Υ <u>ε</u>	es	No <u>X</u>					_
Remarks.				a watlar	مما ماريم ا	to the cheen	aa af damir	a a m t
The sampled area w					na aue i	to the absen	ce of domir	iant
hydrophytic vegetati	on, nyana	son, a	na wellana ny	arology.				
HYDROLOGY								
Wetland Hydrology Indicato	rs:					Secondary Indica	ntors (minimum o	f two required)
Primary Indicators (minimum	of one is requir	red; check	all that apply)			Surface Soil	Cracks (B6)	
Surface Water (A1)		H Aqua	atic Fauna (B13)			Sparsely Ve	getated Concave	Surface (B8)
High Water Table (A2)			Deposits (B15) (LRF	•		Drainage Pa		
Saturation (A3)			rogen Sulfide Odor (C	•		Moss Trim Li		
Water Marks (B1)			ized Rhizospheres al		coots (C3)		Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)			ence of Reduced Ironent Iron Reduction in		C6)	Crayfish Bur	rows (C8) isible on Aerial I r	magany (CQ)
Algal Mat or Crust (B4)			Muck Surface (C7)	Tilled Solls (C0)		Position (D2)	nagery (C9)
Iron Deposits (B5)			er (Explain in Remark	s)		Shallow Agu	` ,	
Inundation Visible on Aer	ial Imagery (B		(-,		FAC-Neutral	` '	
Water-Stained Leaves (B	,	,				_	noss (D8) (LRR	T, U)
Field Observations:								
Surface Water Present?			Depth (inches):					
Water Table Present?	Yes	No X	Depth (inches):					V
Saturation Present? (includes capillary fringe)	Yes	No X	Depth (inches):		Wetland I	Hydrology Preser	nt? Yes	No <u>X</u>
Describe Recorded Data (stre	eam gauge, mo	onitoring we	ell, aerial photos, pre	vious inspec	tions), if ava	ailable:		
Remarks:								
Wetland hydrology v	vas not pr	esent.						

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: UD02BPH_SJI

		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 0 ((A)
1				That Are OBL, FACW, or FAC.	(A)
2				Total Number of Dominant Species Across All Strata: 1 ((B)
4				Percent of Dominant Species	
5					(A/B)
6				Prevalence Index worksheet:	
7					
8				Total % Cover of: Multiply by:	
		= Total Co	/er	OBL species $\frac{0}{8}$ $x = \frac{0}{16}$ FACW species $\frac{8}{x^2}$ $x = \frac{16}{x^2}$	
50% of total cover:	20% of	total cover	:	1 4- 4-	
Sapling/Shrub Stratum (Plot size:)				=0	
1				10 00	
2					(D)
3				Column Totals: 85 (A) 321	(B)
4				Prevalence Index = B/A = 3.8	
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8				3 - Prevalence Index is ≤3.0 ¹	
		= Total Co	/er	Problematic Hydrophytic Vegetation ¹ (Explain))
50% of total cover:	20% of	total cover	:		
Herb Stratum (Plot size: 30'x30')				¹ Indicators of hydric soil and wetland hydrology mu	ust
1. Uniola paniculata	50	Y	FACU	be present, unless disturbed or problematic.	
2. Ipomoea pes-caprae	15	Y	FAC	Definitions of Four Vegetation Strata:	
3. Spartina patens	8	<u>N</u>	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm	n) or
4. Oenothera drummondii	7	N	UPL	more in diameter at breast height (DBH), regardles	
5. Croton punctatus	5	N	UPL	height.	
6				Sapling/Shrub – Woody plants, excluding vines, le	ess
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb - All herbaceous (non-woody) plants, regard	less
9				of size, and woody plants less than 3.28 ft tall.	
10				Woody vine – All woody vines greater than 3.28 ft	t in
11				height.	
12					
40.5		= Total Cov			
50% of total cover: 42.5	20% of	total cover	: 17		
Woody Vine Stratum (Plot size:)					
1					
2					
3					
4					
5				Hydrophytic	
		= Total Cov		Vegetation Present? Yes No X	
50% of total cover:		total cover	:	11000000	
Remarks: (If observed, list morphological adaptations belo	•				
Dominant hydrophytic vegetation was n	ot prese	ent.			

SOIL Sampling Point: UD02BPH_SJI

	Matrix		Red	ox Feature	S		n the absence o			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-18	10YR 7/2	100					Sand			
	-	-			-					
				_						
	-									
	-									
<u> </u>		- Infirm DM D	Andrea al Martela N				21	D. Daniel Co	NA NA-1-	
	oncentration, D=Deplicators: (Application)					ains.	Indicators f		ning, M=Matr	
_		Jabie io ali Li				DD C T I			-	Julis .
Histosol	pipedon (A2)		Polyvalue B Thin Dark S				· -	uck (A9) (LF uck (A10) (L		
=	istic (A3)		Loamy Mucl							MLRA 150A,E
=	en Sulfide (A4)		Loamy Gley	•	. , .	• • •		•	, .	(LRR P, S, T
	d Layers (A5)		Depleted Ma		,				oamy Soils (•
	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	6)			A 153B)	·	
	ucky Mineral (A7) (L		Depleted Da		` ,			rent Materia		
	resence (A8) (LRR l		Redox Depr	•	8)				Surface (TF	12)
_	uck (A9) (LRR P, T)		☐ Marl (F10) (•			U Other (E	Explain in R	emarks)	
= '	d Below Dark Surfac	ce (A11)	Depleted Oc		•	•	- \ 3			
=	ark Surface (A12)	MI DA 150A\	Iron-Mangai					-	ophytic vege gy must be p	
	rairie Redox (A16) (Jucky Mineral (S1) (Umbric Surf			, 0)		-	gy must be p I or problema	
_	Gleyed Matrix (S4)	LKK 0, 3)	Reduced Ve			0A. 150B)		ss distuibed	i di pidbieilia	auc.
_	Redox (S5)		Piedmont FI							
_	d Matrix (S6)						RA 149A, 153C,	153D)		
_	ırface (S7) (LRR P, 3	S, T, U)	<u>—</u>	J	·	, ,		,		
Restrictive	Layer (if observed)):								
Type:										
	ches):						Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:			<u> </u>				Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:	ches):	s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	<u>No_X</u>
Type: Depth (in temarks:		s not pres	 ent.				Hydric Soil F	resent?	Yes	No <u>X</u>
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	_ No <u>X</u>
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	. No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	_ No <u>X</u>
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	resent?	Yes	_ No <u>X</u>
Type: Depth (in emarks:		s not pres	 ent.				Hydric Soil F	Present?	Yes	_ No <u>X</u>
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	. No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	. No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X

Project/Site: San Jose Island City/Cour	hty: Aransas County Sampling Date: 10/19/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD02KNT_SJ
	Township, Range: N/A
$ \begin{array}{c} \text{Landform (hillslope, terrace, etc.):} \underline{\text{Barrier island - top of primary dune}} \text{Local reliebs} \\ \text{Subregion (LRR or MLRA):} \underline{\text{LRR T / MLRA 150B}} \text{Lat:} \underline{\text{27.927594}} \\ \end{array} $	ef (concave, convex, none): Convex Slope (%): 0-10 Long: -96.987979 Datum: NAD83
Soil Map Unit Name: Beaches	NWI classification: M2USP
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ significantly disturbed	? Are "Normal Circumstances" present? Yes X No
Are Vegetation N , Soil N , or Hydrology N naturally problematic?	? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sample	ing point locations, transects, important features, etc.
Hydric Soil Present? Wetland Hydrology Present? Yes No X Yes No X Yes No X	the Sampled Area thin a Wetland? Yes No X
Although dominant hydrophytic vegetation was prese within a wetland due to the absence of wetland hydro	•
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water Water Present? Yes No X Depth (inches):	Moss Trim Lines (B16) G Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) ed Soils (C6) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No X
Remarks: Wetland hydrology was not present.	us inspections), if available:

Cover	Dominant Species?	Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
			That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species
			Species Across All Strata: 2 (B) Percent of Dominant Species
			Species Across All Strata: 2 (B) Percent of Dominant Species
·			
·			
·			(112
·			
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
	= Total Cov	er	OBL species x 1 =
20% of	total cover:		FACW species x 2 =
			FAC species x 3 =
			FACU species x 4 =
			UPL species x 5 =
			Column Totals: (A) (B)
			Davidon a ladou - D/A -
			Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			X 2 - Dominance Test is >50%
	- Total Cav		3 - Prevalence Index is ≤3.0 ¹
,			Problematic Hydrophytic Vegetation ¹ (Explain)
20% 01	total cover:		
1	V	EACW/	¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Four Vegetation Strata:
			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
<u> </u>			more in diameter at breast height (DBH), regardless of height.
			neight.
·	IN	FACU	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
			Woody vine – All woody vines greater than 3.28 ft in height.
			neight.
, <u> </u>	- Total Cav		
20% 01	total cover:		
		_	
			Hydrophytic
			Vegetation
20% of	total cover:		11000iiii 100 <u> </u>
	======================================	= Total Cover: Y Y N N N N Total Cover: Y Total Cover: Total Cover: Total Cover: Total Cover:	= Total Cover 20% of total cover: Y FACW Y FAC N FACU N FACU N FACU N FAC ON FACU N FAC N FACU

SOIL Sampling Point: UD02KNT_SJI

Depth	cription: (Describe Matrix		Red	ox Feature	s			- ,	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarl	(S
0-20	10YR 6/3	100					Sand		
- 0.0							21 " 51	D 11: 14.1	
	oncentration, D=De Indicators: (Appli					ains.		_=Pore Lining, M=M r Problematic Hyd	
		cable to all Li				DD 0 T I		•	ic soils .
Histoso	r (A1) pipedon (A2)		Polyvalue B Thin Dark S				· -	k (A9) (LRR O) k (A10) (LRR S)	
=	listic (A3)		Loamy Muc	-				vertic (F18) (outsi	NA MIRA 150A F
_	en Sulfide (A4)		Loamy Gley	•	. , .	(0,		Floodplain Soils (F	
	d Layers (A5)		Depleted Ma		(· <i>–</i>)			ıs Bright Loamy So	
	Bodies (A6) (LRR I	P, T, U)	Redox Dark		- 6)		(MLRA		,
	ucky Mineraĺ (A7) (L		Depleted Da	ark Surface	e (F7)		Red Pare	nt Material (TF2)	
	resence (A8) (LRR		Redox Depr	essions (F	8)		<u></u>	low Dark Surface (*	ΓF12)
_	uck (A9) (LRR P, T)		<u></u>				U Other (Ex	plain in Remarks)	
=	d Below Dark Surfa	ce (A11)	Depleted O		•	•	3		
	ark Surface (A12)	(III DA 450A)	Iron-Mangai					ors of hydrophytic ve	-
	Prairie Redox (A16) (_			, U)		d hydrology must b	
_	Mucky Mineral (S1) (Gleyed Matrix (S4)	(LRR 0, 5)	Delta Ochrid			OA 150B)		disturbed or proble	ematic.
_	Redox (S5)		Piedmont F						
_	d Matrix (S6)						RA 149A, 153C, 15	53D)	
_	urface (S7) (LRR P,	S, T, U)			,	= , (.	, 1000, 10	,	
	Layer (if observed								
Type:		-							
	iches):						Hydric Soil Pro	esent? Yes	No X
Remarks:							,		_
F	lydric soil was	s not pres	ent.						
	-								

Project/Site: San Jose Island City/C	county: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD03BPH_SJI
	on, Township, Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - small depression Local	
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.90131	9 January -97.010621 Solve (78)
Soil Map Unit Name: Beaches	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N , Soil N , or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	
Hydric Soil Present? Yes X No	Is the Sampled Area within a Wetland? Yes No X
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	within a wetland? TesNo
Remarks:	
Although wetland hydrology and hydric soil were p	resent, the sampled area was determined to not
be within a wetland due to the absence of dominar	nt hydrophytic vegetation.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Sparsoly Versetand Conceins Surface (BR)
☐ Surface Water (A1) ☐ Aquatic Fauna (B13) ☐ High Water Table (A2) ☐ Marl Deposits (B15) (LRF	Sparsely Vegetated Concave Surface (B8) R U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C	
Water Marks (B1) Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Iro	
Drift Deposits (B3)	Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	
☐ Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations:	☐ Spriagrium moss (Do) (Erric 1, 0)
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vigus inspections) if available:
Describe Recorded Data (stream gauge, monitoring well, aerial priotos, pre	vious inspections), ii available.
Remarks:	
Wetland hydrology was present.	
Wettaria riyarology was present.	

/EGETATION (Four Strata) – Use scientific na	mes ot pi	ants.		Sampling Point: UD03BPH_S
		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2.				
3.				Total Number of Dominant Species Across All Strata: 3 (B)
4				Opedes Acioss Ali Stiata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0 (A/B
5				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
3				OBL species <u>6</u> x 1 = <u>6</u>
50% 51.44		= Total Cov		FACW species 15 x 2 = 30
50% of total cover:	20% of	total cover:		FAC species 10 x 3 = 30
Sapling/Shrub Stratum (Plot size:)				FACU species 65 x 4 = 260
·				UPL species 4 x 5 = 20
2				Column Totals: 100 (A) 346 (B)
3				(7)
4				Prevalence Index = B/A = 3.46
5				Hydrophytic Vegetation Indicators:
S				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
3				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover:		
Herb Stratum (Plot size: 30'x30')				¹ Indicators of hydric soil and wetland hydrology must
_{1.} Uniola paniculata	20	Υ	FACU	be present, unless disturbed or problematic.
Chamaecrista fasciculata	20	Υ	FACU	Definitions of Four Vegetation Strata:
Eustachys neglecta	20	Y	FACU	
Paspalum monostachyum	10	N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o more in diameter at breast height (DBH), regardless of
5 Samolus ebracteatus	6	N	OBL	height.
_{6.} Muhlenbergia capillaris	5	N	FAC	Continue (Charache Manda and and and and and and and and and
7. Conoclinium coelestinum	5	N	FAC	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3. Andropogon glomeratus	5	N	FACW	
g. Schizachyrium scoparium	5	N	FACU	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10. Atriplex leucophylla	2	<u>N</u>	UPL	or size, and woody plants less than 5.20 it tall.
Oenothera drummondii	2	N	UPL	Woody vine – All woody vines greater than 3.28 ft in
		IN	OI L	height.
12	100			
50		= Total Cov		
	20% of	total cover:	20	
Noody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No _^
Remarks: (If observed, list morphological adaptations belo	w).			I.
50% of total cover: Remarks: (If observed, list morphological adaptations belo Dominant hydrophytic vegetation was n	20% of w).	total cover:		Present? Yes No X

SOIL Sampling Point: UD03BPH_SJI

Profile Desc	ription: (Describe	to the dep	th needed to docu	ment the	indicator	or confirm	m the absence of ir	ndicators.)
Depth	Matrix			x Feature		. 2		
(inches) 0-4	Color (moist)	<u> %</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
	10YR 6/3	100	40)/D 5/0			-	Sand	
4-18	10YR 6/3	95	10YR 5/6	5	<u>C</u>	M	Sand	
		_		_			<u> </u>	
	-							
					-	-		
1		 .				 	2	
			Reduced Matrix, M			rains.		Problematic Hydric Soils ³ :
		able to all	LRRs, unless othe			I DD C T		•
Histosol	oipedon (A2)		☐ Polyvalue Be☐ Thin Dark Su				· —	(A9) (LRR O) (A10) (LRR S)
 	stic (A3)		Loamy Muck	-				/ertic (F18) (outside MLRA 150A,B)
_	en Sulfide (A4)		Loamy Gleye	-		,		Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma				<u> </u> Anomalous	Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark	,	,		(MLRA 1	
	icky Mineral (A7) (L esence (A8) (LRR (Depleted Da Redox Depre					t Material (TF2) ow Dark Surface (TF12)
	ick (A9) (LRR P, T)))	Marl (F10) (L	•	-0)			lain in Remarks)
	d Below Dark Surfac	ce (A11)	Depleted Oc	-	(MLRA 1	51)	<u> </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Thick Da	ark Surface (A12)		Iron-Mangan	ese Mass	ses (F12)	(LRR O, P		s of hydrophytic vegetation and
	rairie Redox (A16) (· —					hydrology must be present,
_	Mucky Mineral (S1) (LRR O, S)	Delta Ochric					disturbed or problematic.
	Gleyed Matrix (S4) Redox (S5)		Reduced Ve					
	Matrix (S6)						 RA 149A, 153C, 153	BD)
	rface (S7) (LRR P,							
Restrictive	Layer (if observed)	:						
Type:								V
	ches):						Hydric Soil Pres	sent? Yes X No
Remarks:	ydric soil was	nresen	t					
''	yuno son was	picaci						

Project/Site: San Jose Island Applicant/Owner: Port of Corpus Cl	 nristi Authority	City/Cou	_{unty:} Aransas Co	ounty _{State:} TX	Sampling Date:	10/18/2021 UD03KNT SJI
Investigator(s): CSK, KNT			T 1: D		Sampling Point:	
Landform (hillslope, terrace, etc.): Barrie	r island - gulf h	Section	, Township, Range:	. None		N-1
Subregion (LRR or MLRA): LRR T / M	LKA 150B Lat:	27.923071	Long:	-90.991407	Da	atum: INADOS
Soil Map Unit Name: Beaches				NWI classific	cation: IVIZUSE	
Are climatic / hydrologic conditions on the						
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hy	drology N sigr	nificantly disturbe	ed? Are "Norm	ıal Circumstances" լ	oresent? Yes X	No
Are Vegetation N , Soil N , or Hy	drology N nati	urally problemati	c? (If needed	, explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS – Atta	ıch site map sh	nowing samp	oling point locat	ions, transects	s, important fo	eatures, etc.
Hydrophytic Vegetation Present?	Yes No	х <u> </u>	s the Sampled Area			
Hydric Soil Present?	Yes No	<u> </u>	s the Sampled Area within a Wetland?		No	
Wetland Hydrology Present?	Yes X No_	`	within a Wetland:	163	140	_
Remarks:						
Although wetland hydrology	•	•				in a
wetland due to the absence	of dominant	hydrophytic	c vegetation a	nd hydric soil		
HYDROLOGY						
Wetland Hydrology Indicators:				_	ators (minimum of	f two required)
Primary Indicators (minimum of one is re-	· 🗖			Surface Soil	• •	Curfo es (DO)
Surface Water (A1) High Water Table (A2)	Aquatic Fa	iuna (B13) sits (B15) (LRR I	ш	Drainage Pa	getated Concave	Surface (B8)
Saturation (A3)		Sulfide Odor (C1	•	Moss Trim L		
Water Marks (B1)			, ng Living Roots (C3)		Water Table (C2))
Sediment Deposits (B2)		of Reduced Iron		Crayfish Bur		
Drift Deposits (B3)	Recent Iro	n Reduction in T	illed Soils (C6)	Saturation V	isible on Aerial I m	nagery (C9)
Algal Mat or Crust (B4)	_	Surface (C7)		_	Position (D2)	
Iron Deposits (B5)		olain in Remarks))	Shallow Aqu	` '	
Inundation Visible on Aerial Imagery Water-Stained Leaves (B9)	(B7)			FAC-Neutral	Test (D5) noss (D8) (LRR T	- 115
Field Observations:				Spriagnum	illoss (Do) (LKK I	, 0)
	_ No X _ Depth	(inches):				
Water Table Present? Yes	No X Depth	(inches):				
Saturation Present? Yes	No X Depth	i (inches):	Wetland	l Hydrology Preser	nt? Yes X	No
(includes capillary fringe)					<u>'</u>	
Describe Recorded Data (stream gauge,	monitoring well, aer	riai pnotos, previ	ous inspections), if a	vallable:		
Remarks:						
	cont					
Wetland hydrology was pres	sent.					

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point: _UD03KNT_SJI Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: _____) % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant ___ (B) Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B) 6. _____ ___ ___ Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ = Total Cover FACW species _____ x 2 = ____ 50% of total cover: _____ 20% of total cover: ____ FAC species _____ x 3 = ____ Sapling/Shrub Stratum (Plot size: _____) FACU species _____ x 4 = ____ UPL species _____ x 5 = ____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____ Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 ___ Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: _____ 20% of total cover: ____ Herb Stratum (Plot size: 30' radius ¹Indicators of hydric soil and wetland hydrology must 1 Sporobolus virginicus **FACW** be present, unless disturbed or problematic. 2. Sesuvium portulacastrum **FACW Definitions of Four Vegetation Strata:** 3. Spartina patens 1 **FACW** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or 4. Ipomoea pes-caprae FAC more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. **Herb** – All herbaceous (non-woody) plants, regardless

50% of total cover: 20% of total cover:

of size, and woody plants less than 3.28 ft tall.

Woody vine - All woody vines greater than 3.28 ft in

Hydrophytic Vegetation Present?

height.

'es	No X	
	 _	-

Remarks: (If observed, list morphological adaptations below).

Dominant hydrophytic vegetation was not present since the total cover was less than five percent.

SOIL Sampling Point: UD03KNT_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of	indicators.)	
Depth	Matrix			ox Features		. 2			
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Remarks	<u> </u>
0-20	10YR 5/2	100					Sand		
				_					
									_
	-								
¹Type: C=C	oncentration, D=De _l	 oletion_RM=R	educed Matrix M	S=Masked	Sand Gr	ains	² Location: PL	_=Pore Lining, M=Ma	ntrix
	Indicators: (Applic					uiiio.		r Problematic Hydri	
☐ Histosol			Polyvalue B			RRSTI		ck (A9) (LRR O)	
_	oipedon (A2)		Thin Dark S				· —	ck (A10) (LRR S)	
	stic (A3)		Loamy Muck					Vertic (F18) (outside	e MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gley	-			Piedmont	Floodplain Soils (F1	9) (LRR P, S, T)
Stratified	d Layers (A5)		Depleted Ma	atrix (F3)			<u> </u>	us Bright Loamy Soils	s (F20)
	Bodies (A6) (LRR F		Redox Dark	Surface (F	⁻ 6)		☐ (MLRA	,	
	ıcky Mineral (A7) (L		Depleted Da					nt Material (TF2)	
	esence (A8) (LRR U	J)	Redox Depr	,	8)			llow Dark Surface (T	F12)
	ick (A9) (LRR P, T)	(044)	Marl (F10) (I		/MII DA 4	-4\	U Other (Ex	plain in Remarks)	
	d Below Dark Surfac ark Surface (A12)	æ (ATT)	☐ Depleted Oc ☐ Iron-Mangar		•	-	T) ³ Indicate	ors of hydrophytic ve	notation and
	rairie Redox (A16) (MLRA 150A)	Umbric Surfa					id hydrology must be	-
	lucky Mineral (S1) (Delta Ochric			, •,		disturbed or probler	·
_	Gleyed Matrix (S4)		Reduced Ve			0A, 150B)			
	Redox (S5)		Piedmont FI						
Stripped	Matrix (S6)		Anomalous	Bright Loar	my Soils (F20) (MLR	RA 149A, 153C, 15	53D)	
	rface (S7) (LRR P,								
Restrictive	Layer (if observed)	:							
Type:									V
Depth (in	ches):						Hydric Soil Pro	esent? Yes	No X
Remarks:	,		1						
Н	ydric soil was	s not pres	ent.						

Applicant/Owner: Port of Corpus Christi Authority	1					
Are Vegetation N , Soil N , or Hydrology N naturally problema	tic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.					
Hydric Soil Present?						
HYDROLOGY						
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) □ Surface Soil Cracks (B6) □ Surface Water (A1) □ Aquatic Fauna (B13) □ Sparsely Vegetated Concave Surface (B8) □ High Water Table (A2) □ Marl Deposits (B15) (LRR U) □ Drainage Patterns (B10) □ Saturation (A3) □ Hydrogen Sulfide Odor (C1) □ Moss Trim Lines (B16) □ Water Marks (B1) □ Oxidized Rhizospheres along Living Roots (C3) □ Dry-Season Water Table (C2) □ Sediment Deposits (B2) □ Presence of Reduced Iron (C4) □ Crayfish Burrows (C8) □ Drift Deposits (B3) □ Recent Iron Reduction in Tilled Soils (C6) □ Saturation Visible on Aerial Imagery (C9) □ Iron Deposits (B5) □ Other (Explain in Remarks) □ Shallow Aquitard (D3) □ Inundation Visible on Aerial Imagery (B7) □ FAC-Neutral Test (D5) □ Water-Stained Leaves (B9) □ Sphagnum moss (D8) (LRR T, U)						
Field Observations: Surface Water Present? Yes No _X Depth (inches): Water Table Present? Yes No _X Depth (inches):						
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No X					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, preventation of the provided Remarks: Wetland hydrology was not present.	vious inspections), if available:					

,	ames of pl	ants.		Sampling Point: UD04BPH_S
		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
l				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B
3				(**-
7.				Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
		= Total Cov	/er	OBL species $5 \times 1 = 5$
50% of total cover:				FACW species <u>25</u> x 2 = <u>50</u>
Sapling/Shrub Stratum (Plot size:)	20 70 01	10101 00101	·	FAC species <u>0</u> x 3 = <u>0</u>
				FACU species 60 x 4 = 240
l				UPL species 10 x 5 = 50
2.				Column Totals: 100 (A) 345 (B)
3				
l				Prevalence Index = $B/A = 3.45$
5				Hydrophytic Vegetation Indicators:
S				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
3				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 30'x30')				¹ Indicators of hydric soil and wetland hydrology must
1. Chamaecrista fasciculata	30	<u>Y</u>	FACU	be present, unless disturbed or problematic.
_ Uniola paniculata	20	<u>Y</u>	FACU	Definitions of Four Vegetation Strata:
3. Iva frutescens	15	<u>Y</u>	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
Schizachyrium scoparium	10	N	FACU	more in diameter at breast height (DBH), regardless of
Paspalum monostachyum	10	N	FACW	height.
Fimbristylis castanea	5	N	OBL	Sapling/Shrub – Woody plants, excluding vines, less
Heterotheca subaxillaris	5	N	UPL	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Physalis cinerascens	5	N	UPL	Howk All book account (non-viscodia) whente we would be
).				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				
11				Woody vine – All woody vines greater than 3.28 ft in
				height.
12	100			
50% (1.1.1 50		= Total Cov		
	20% of	total cover	: 20	
Voody Vine Stratum (Plot size:)				
l				
3 4				Hydrophytic
3 4				Vegetation
2		= Total Cov	 /er	

SOIL Sampling Point: UD04BPH_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of in	dicators.)	
Depth	Matrix			ox Feature			_		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	<u> </u>
0-18	10YR 6/2	100					Loamy sand		
									_
				_					
				_					_
1T. (DOL C-C		olotion DM=D	laduand Matrix M	C=Maakaa			2l continue DI =	Pore Lining, M=Ma	+wise
	oncentration, D=De Indicators: (Applie					airis.		Problematic Hydri	
		Cable to all Li				DDCTI		-	c Jons .
Histosol	oipedon (A2)		Polyvalue B				· —	(A9) (LRR O) (A10) (LRR S)	
	stic (A3)		Loamy Much	-				ertic (F18) (outsid	- MI RΔ 150Δ R)
I =	en Sulfide (A4)		Loamy Gley	-		. 0,		loodplain Soils (F1	
	d Layers (A5)		Depleted Ma		,			Bright Loamy Soils	
	Bodies (A6) (LRR F	P, T, U)	Redox Dark		- 6)		(MLRA 1		(* = =)
	icky Mineral (A7) (L		Depleted Da	ırk Surface	· (F7)		Red Parent	Material (TF2)	
	esence (A8) (LRR I	J)	Redox Depr	•	8)		<u> </u> Very Shallo	w Dark Surface (T	=12)
	ıck (A9) (LRR P, T)		Marl (F10) (I				U Other (Exp	ain in Remarks)	
	d Below Dark Surfac	ce (A11)	Depleted Oc		•	-	2		
	ark Surface (A12)		Iron-Mangar					of hydrophytic ve	
	rairie Redox (A16) (Umbric Surf			, U)		hydrology must be	
	lucky Mineral (S1) (Bleyed Matrix (S4)	LKK (J, 5)	Delta Ochric			OA 150B)		listurbed or probler	natic.
	Redox (S5)		Piedmont FI						
	Matrix (S6)			-			RA 149A, 153C, 153	D)	
_	rface (S7) (LRR P ,	S, T, U)		ge	, (. ==, (=	,,,	-,	
	Layer (if observed)								
Type:			_						
Depth (in	ches):						Hydric Soil Pres	sent? Yes	No X
Remarks:									
H	ydric soil was	not pres	ent.						

Project/Site: San Jose Island City/C	county: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD04KNT_SJI
	on, Township, Range: N/A
Barrier island - top of primary dune	Convey 0.10
Catanatian (IRR and RA) LRR T / MIRA 150B Lat 27 92319	9 -96 991655 NAD83
Soil Map Unit Name: Landform (hillslope, terrace, etc.): Landform (hillslope, etc.): Landform (hillslope, terrace, etc.): Landform (hillslope, terrace, etc.): Landform (hillslope, etc.): Landform (hillslo	Long: Datum: Datum: Datum: Datum: Datum: Datum: Datum:
Soil Map Unit Name: Deaches	NWI classification: MZOCI
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N , Soil N , or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	
Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes No X
Hydrophytic Vegetation Present? Yes	within a Wetland? Yes No
Remarks:	
the sampled area was determined to not be within	a wetland due to the absence of dominant
hydrophytic vegetation, hydric soil, and wetland hy	drology.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRF	
Saturation (A3) Hydrogen Sulfide Odor (C	
Water Marks (B1) Continuent Page 2 in (B2) Water Marks (B1) Decrease of Page 2 in (B2)	
Sediment Deposits (B2) Presence of Reduced Iro Drift Deposits (B3) Recent Iron Reduction in	
Algal Mat or Crust (B4) Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No X
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
gg.,g	
Remarks:	
Wetland hydrology was not present.	
Trestand flydrelegy was not present.	

		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:) 1		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant Species Across All Strata: 2	В)
4				Percent of Dominant Species	,
6.				That Are OBL, FACW, or FAC: 50 (A	A/B)
7				Prevalence Index worksheet:	
8.				Total % Cover of: Multiply by:	
UI		= Total Cov	er	OBL species <u>0</u> x 1 = <u>0</u>	
50% of total cover:				FACW species <u>0</u> x 2 = <u>0</u>	
Sapling/Shrub Stratum (Plot size:)	20 /0 01	total cover		FAC species 30 x 3 = 90	
1				FACU species 30 x 4 = 120	
				UPL species 10 x 5 = 50	
2				Column Totals: 70 (A) 260	(B)
4				Prevalence Index = B/A = 3.7	
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8				3 - Prevalence Index is ≤3.0 ¹	
F00/		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)	1
50% of total cover:	20% of	total cover	·		
Herb Stratum (Plot size: 30' radius) 1. Uniola paniculata	30	Y	FACU	¹ Indicators of hydric soil and wetland hydrology mu be present, unless disturbed or problematic.	st
2. Panicum amarum	20	<u>Y</u>	FAC	Definitions of Four Vegetation Strata:	
3. Lepidium virginicum	10	N	UPL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm	n) or
4. Sophora tomentosa	5	<u>N</u>	FAC	more in diameter at breast height (DBH), regardles	
5. Ipomoea pes-caprae	5	<u>N</u>	FAC	height.	
6				Sapling/Shrub – Woody plants, excluding vines, le	ess
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb – All herbaceous (non-woody) plants, regardl	ess
9				of size, and woody plants less than 3.28 ft tall.	
10				Woody vine – All woody vines greater than 3.28 ft	in
11				height.	""
12					
	70	= Total Cov	er		
50% of total cover: 35					
Woody Vine Stratum (Plot size:)					
1					
2.					
3.					
4.					
5				Hadranbada	
<u> </u>		= Total Cov	er	Hydrophytic Vegetation	
50% of total cover:				Present? Yes No X	
Remarks: (If observed, list morphological adaptations bel		total cover	·		
	•				
Dominant hydrophytic vegetation was r	not prese	ent.			

Sampling Point: UD04KNT_SJI

SOIL Sampling Point: UD04KNT_SJI

	Matrix		Redo	x Feature:			n the absence of		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Rei	marks
0-20	10YR 6/2	100					Sand		
_	•			-					
	-								
	-								
	·								
	·								
• •	Concentration, D=Dep					ains.	² Location: P	L=Pore Lining, N	M=Matrix.
ydric Soil	Indicators: (Applic	able to all L	RRs, unless other	rwise note	ed.)		_	r Problematic I	-
Histosol			Polyvalue Be				. —	ck (A9) (LRR 0)	
=	pipedon (A2)		Thin Dark Su					ck (A10) (LRR S	
	listic (A3) en Sulfide (A4)		Loamy Muck	•	. , .	(0)			u tside MLRA 150A , ls (F19) (LRR P, S , 1
	d Layers (A5)		Depleted Ma	,	1 2)			us Bright Loamy	
	Bodies (A6) (LRR P	, T, U)	Redox Dark		6)			153B)	, 30.10 (1. 20)
	ucky Mineral (A7) (Ll		Depleted Da	rk Surface	(F7)			ent Material (TF2	2)
=	resence (A8) (LRR L	J)	Redox Depre	,	3)			allow Dark Surfa	
_	uck (A9) (LRR P, T)		Marl (F10) (L				U Other (E	xplain in Remarl	ks)
=	ed Below Dark Surfac	e (A11)	Depleted Oc		•	•	T) 3Indicat	ana af buduanbud	tio voqetation and
	ark Surface (A12) Prairie Redox (A16) (I	MI RA 150A)	☐ Iron-Mangan☐ Umbric Surfa					ors of hydrophyt nd hydrology mu	tic vegetation and
	Mucky Mineral (S1) (I		Delta Ochric			, 0,		s disturbed or pr	
_	Gleyed Matrix (S4)	,	Reduced Ver			0A, 150B)			
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	19A)		
	d Matrix (S6)		Anomalous E	Bright Loar	ny Soils (F20) (MLR	A 149A, 153C, 1	53D)	
	urface (S7) (LRR P, S								
_	Layer (if observed)	•							
Type:							Ukadaia Cail B	resent? Yes	No X
D (! . /!	- I \						Hydric Soil P	resent/ Yes	No <u>/\</u>
	nches):								
emarks:	, -		_ ent						
emarks:	lydric soil was		ent.						
emarks:	, -		ent.				1		
emarks:	, -		ent.				1 -		
emarks:	, -		ent.						
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emarks:	, -		ent.						
temarks:	, -		ent.						
emarks:	, -		ent.						
emarks:	, -		ent.						
emarks:	, -		ent.						
emarks:	, -		ent.						
emarks:	, -		ent.						

Project/Site: San Jose Island City/C	ounty: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD05BPH_SJI
	on, Township, Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - gulf beach Local	relief (concave, convey, none): Convex
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.89612	0 Langui -97.013090 Solpe (1/8) NAD83
Soil Map Unit Name: Not mapped	NWI classification: M2USP
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation N, Soil N, or Hydrology N, significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N , Soil N , or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes	In the County of Acces
Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes No X
Wetland Hydrology Present? Yes X No	within a Wetianu! 165 NO
Remarks:	
Although dominant hydrophytic vegetation and wet	
was determined to not be within a wetland due to t	he absence of hydric soil.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRF	R U) Drainage Patterns (B10)
☐ Saturation (A3) ☐ Hydrogen Sulfide Odor (C	
Water Marks (B1) □ Oxidized Rhizospheres a □ December 1 December 1 December 2 December 2 December 2 December 2 December 2 December 3 December 3 December 4 Decembe	
☑ Sediment Deposits (B2) ☐ Presence of Reduced Iron ☑ Drift Deposits (B3) ☐ Recent Iron Reduction in	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was present.	
Wettaria rryarology was present.	

6 Cover	Dominant Species?	Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 3 (B)
			That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant
·			2
·			2
			· · ·
			D ((D : (O :
			Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
		er	OBL species x 1 =
20% of	total cover:		FACW species x 2 =
			FAC species x 3 =
			FACU species x 4 =
			UPL species x 5 =
			Column Totals: (A) (B)
			Dravalance Index = D/A =
			Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			X 2 - Dominance Test is >50%
	= Total Cov		3 - Prevalence Index is ≤3.0¹
,			Problematic Hydrophytic Vegetation ¹ (Explain)
20 /0 01	total cover.		1
0	Υ	FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			Definitions of Four Vegetation Strata:
			Deminions of Four Vegetation Strata.
 -			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
			more in diameter at breast height (DBH), regardless of height.
			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
			than 3 in. DDT and greater than 3.20 it (1 iii) tail.
 -			Herb – All herbaceous (non-woody) plants, regardless
			of size, and woody plants less than 3.28 ft tall.
			Woody vine – All woody vines greater than 3.28 ft in
			height.
0			
20% of	total cover:	14	
·			
·			Hydrophytic
=	= Total Cov	er	Vegetation
20% of	total cover:		Present? Yes <u>^</u> No
i			1
	20% of 0 5 5 0 0 = 20% of 1 = 20%	= Total Cover: 20% of total cover: = Total Cover: = Total Cover: 0	= Total Cover 20% of total cover: = Total Cover 20% of total cover: = Total Cover 20% of total cover: N FACW N UPL N UPL N UPL O = Total Cover 20% of total cover: 14

SOIL Sampling Point: UD05BPH_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	indicator	or confirm	n the absence of	indicators.)	
Depth	Matrix			ox Feature		. 2		_	
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture _	Remai	<u>rks</u>
0-18	10YR 6/2	100					Sand		
				_					
	-								
1Typo: C=C	oncentration, D=De _l	olotion DM-D	Poducod Matrix M		Sand Gr	oine	² Location: D	L=Pore Lining, M=N	Matrix
	Indicators: (Applic					airio.		or Problematic Hyd	
Histosol		, , , , , , , , , , , , , , , , , , ,	Polyvalue B			DD S T I		ck (A9) (LRR O)	
_	oipedon (A2)		Thin Dark S				· —	ck (A3) (LRR S)	
Black Hi			Loamy Mucl						ide MLRA 150A,B)
I =	en Sulfide (A4)		Loamy Gley	-		. •,		it Floodplain Soils (I	
	d Layers (A5)		Depleted Ma		/			ous Bright Loamy So	
	Bodies (A6) (LRR F	P, T, U)	Redox Dark		- 6)			(153B)	,
	ıcky Mineral (A7) (L		Depleted Da	ark Surface	(F7)		Red Pare	ent Material (TF2)	
Muck Pr	esence (A8) (LRR I	J)	Redox Depr	essions (F	8)		<u></u> Very Sha	allow Dark Surface	(TF12)
<u>Π</u> 1 cm Μι	ıck (A9) (LRR P, T)		Marl (F10) (LRR U)			U Other (E	xplain in Remarks)	
	d Below Dark Surfac	ce (A11)	Depleted Od		•	-	2		
_	ark Surface (A12)		☐ Iron-Mangar					ors of hydrophytic v	-
	rairie Redox (A16) (_			', U)		nd hydrology must l	
_	Mucky Mineral (S1) (LRR O, S)	Delta Ochrid			OA 450D)		s disturbed or probl	ematic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5) Matrix (S6)		Piedmont FI	-	, ,		ıяд) RA 149A, 153C, 1	E2D)	
_	rface (S7) (LRR P, :	S T III	Anomalous	Brigiil Luai	illy Solis (F20) (WILK	A 149A, 155C, 1	330)	
	Layer (if observed)								
Type:									
, , <u> </u>	ches):						Hydric Soil P	resent? Yes	X
Remarks:							Tiyano con T		
H	ydric soil was	not pres	ent.						
	,	Į.							

Project/Site: San Jose Island City/C	ounty: Aransas County	Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX	
	on, Township, Range: N/A	
Landform (hillslone terrace etc.). Barrier island - upland mound in mosaic	relief (concave, convex, none). None	Slope (%): 0-1
Landform (hillslope, terrace, etc.): Barrier island - upland mound in mosaic Local Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.92342	2 Langui -96,992011	Slope (%)
Soil Map Unit Name: Psamments, rarely flooded	Long NWI classificat	None
		·
Are climatic / hydrologic conditions on the site typical for this time of year? Y		
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ significantly disturb		
Are Vegetation N , Soil N , or Hydrology N naturally problems	atic? (If needed, explain any answers	s in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes X No		
Hydric Soil Present? Yes No X	Is the Sampled Area	X
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes	within a Wetland? Yes	No <u>/\</u>
Remarks:		
Although dominant hydrophytic vegetation and wet	land hydrology were present,	the sampled area
was determined to not be within a wetland due to the	he absence of hydric soil.	
HYDROLOGY		
Wetland Hydrology Indicators:		ors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil C	, ,
Surface Water (A1) Aquatic Fauna (B13) And Reposite (B15) (B15)	– • • • •	etated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Hydrogen Sulfide Odor (C	_	
☐ Saturation (A3) ☐ Hydrogen Sulfide Odor (C ☐ Water Marks (B1) ☐ Oxidized Rhizospheres a	_	/ater Table (C2)
Sediment Deposits (B2) Sediment Deposits (B2) Presence of Reduced Iron		· ·
Drift Deposits (B3) Recent Iron Reduction in		ible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Geomorphic P	=
Iron Deposits (B5) Other (Explain in Remark	= ·	` '
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral T	
Water-Stained Leaves (B9)	☐ Sphagnum mc	oss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No X Depth (inches):		
Water Table Present? Yes No X Depth (inches):		V
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	Wetland Hydrology Present	? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	l vious inspections), if available:	
Remarks:		
Wetland hydrology was present.		

	Absolute			Sampling Point: UD05KNT_S
1		Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
-'				Total Number of Demain and
3				Total Number of Dominant Species Across All Strata: 2 (B)
J				
j				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B
5				That Are OBE, I ACW, OF I AC.
				Prevalence Index worksheet:
·				Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
50% of total cover:				FACW species x 2 =
	20% 01	total cover.		FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =
•				UPL species x 5 =
				Column Totals: (A) (B)
3				(1)
·				Prevalence Index = B/A =
j				Hydrophytic Vegetation Indicators:
·				1 - Rapid Test for Hydrophytic Vegetation
·				2 - Dominance Test is >50%
3				3 - Prevalence Index is ≤3.0 ¹
	:	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover:		Troblematic Trydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 30' radius)	_			Indicators of hydric soil and watland hydrology must
	70	Υ	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	20	Y	FACW	Definitions of Four Vegetation Strata:
	2	N	FACU	Definitions of Four Vegetation Strata.
·	2	N	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
r:	2	N	FACU	more in diameter at breast height (DBH), regardless of height.
	2	N	FAC	
7.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10.				
11				Woody vine – All woody vines greater than 3.28 ft in
				height.
12	98			
-		= Total Cov		
	20% of	total cover:	19.0	
Noody Vine Stratum (Plot size:)				
l				
2				
3				
4				
5				Hydrophytic
		= Total Cov	er	Vegetation
				Present? Yes X No
50% of total cover:	_			

SOIL Sampling Point: UD05KNT_SJI

Profile Desc	cription: (Describe	to the dep	th needed to docu	ment the	indicator	or confirm	m the absence of inc	licators.)	
Depth	Matrix			x Feature		. 2			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-3	10YR 4/2		101/5 0/0				Loamy sand		
3-20	10YR 5/3	99	10YR 6/8	_ <u>1</u>	<u>C</u>	PL	Loamy sand		
						· 	·		
						·	·		
							·		
				_	_				
¹ Type: C=C	oncentration, D=De _l	oletion, RM:	=Reduced Matrix, M	S=Maske	d Sand G	ains.	² Location: PL=F	ore Lining, M=Mat	rix.
Hydric Soil	Indicators: (Applic	cable to all	LRRs, unless othe	rwise not	ted.)		Indicators for P	roblematic Hydric	: Soils³:
☐ Histosol	(A1)		Polyvalue Be	elow Surfa	ace (S8) (I	LRR S, T,	U) 1 cm Muck (A9) (LRR O)	
	pipedon (A2)		Thin Dark Su	urface (S9) (LRR S,	T, U)		A10) (LRR S)	
I =	istic (A3)		Loamy Muck	-		₹ 0)		rtic (F18) (outside	
	en Sulfide (A4)		Loamy Gleye		(F2)			oodplain Soils (F19	
	d Layers (A5)	. T III	Depleted Ma		E6)			Bright Loamy Soils	(F20)
	Bodies (A6) (LRR Fucky Mineral (A7) (L		=	`	,		(MLRA 15	ספוט) Material (TF2)	
	esence (A8) (LRR l		Redox Depre				7 7	v Dark Surface (TF	(12)
	uck (A9) (LRR P, T)	-,	Marl (F10) (L	•	Ο,			in in Remarks)	,
	d Below Dark Surfac	ce (A11)	Depleted Oc	-	(MLRA 1	51)	` '	,	
Thick Da	ark Surface (A12)		☐ Iron-Mangar	ese Mass	ses (F12)	(LRR O, P	, T) ³ Indicators	of hydrophytic veg	etation and
	rairie Redox (A16) (· —					ydrology must be	
_	Mucky Mineral (S1) (LRR O, S)	Delta Ochric					sturbed or problem	atic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5) I Matrix (S6)		Piedmont Flo				49A) RA 149A, 153C, 153I	n)	
_	rface (S7) (LRR P, :	S. T. U)	Anomalous I	ongni Lua	illy Solis	(1 20) (WIL I	XX 149A, 133C, 1331	,	
	Layer (if observed)								
Type:	,								
Depth (in	ches):						Hydric Soil Pres	ent? Yes	No X
Remarks:								<u> </u>	
H	lydric soil was	s not pre	esent.						
ĺ									

Project/Site: San Jose Island City/C	sounty: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD06BPH_SJI
	on, Township, Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - dune Local	relief (concave, convex, none): Convex
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.89625	1 Lengt -97.013311 Solve (%) NAD83
Soil Map Unit Name: Not mapped	NWI classification: M2USP
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N , Soil N , or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	
Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes No X
Hydrophytic Vegetation Present? Yes	within a Wetland? TesNo _/
Remarks:	
The sampled area was determined to not be within	a wetland due to the absence of dominant
hydrophytic vegetation, hydric soil, and wetland hy	drology.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Aquatic Fauna (B13) Mad Banasite (B15) (B15)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Saturation (A3) High Water Table (A2) Saturation (A3) Hydrogen Sulfide Odor (C	
Water Marks (B1) Water Marks (B1) Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Iron	
Drift Deposits (B3)	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Daniella	
Remarks:	
Wetland hydrology was not present.	

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point: _UD06BPH_SJI Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: _____) % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: _____ (A) **Total Number of Dominant** 1 _ (B) Species Across All Strata: Percent of Dominant Species (A/B) That Are OBL, FACW, or FAC: 6.______ Prevalence Index worksheet: Total % Cover of: Multiply by: 0____ x 1 = 0 OBL species = Total Cover 0 <u>x 2 = 0</u> FACW species 50% of total cover: _____ 20% of total cover: ____ 3 _____9 FAC species Sapling/Shrub Stratum (Plot size: _____) FACU species 75 x 4 = 300 ___ x 5 = 10 **UPL** species Column Totals: 80 (A) Prevalence Index = B/A = 4**Hydrophytic Vegetation Indicators:** ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 ___ Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: _____ 20% of total cover: ____ Herb Stratum (Plot size: 30'x30') ¹Indicators of hydric soil and wetland hydrology must 1 Uniola paniculata FACU be present, unless disturbed or problematic. 3 2. Ipomoea pes-caprae FAC **Definitions of Four Vegetation Strata:** 3. Oenothera drummondii 2 UPL Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. **Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. 80 = Total Cover 50% of total cover: 40 20% of total cover: 16 Woody Vine Stratum (Plot size:) Hydrophytic ____ = Total Cover Vegetation Yes _____ No X Present? 50% of total cover: 20% of total cover: Remarks: (If observed, list morphological adaptations below).

Dominant hydrophytic vegetation was not present.

SOIL Sampling Point: UD06BPH_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of	indicators.)	
Depth	Matrix			ox Features					
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	·
0-18	10YR 7/1	100					Sand		
									_
1Typo: C=C	oncentration, D=De	olotion DM-D	oduced Matrix M	S-Mackad	I Sand Gr	oine	² Location: PL	_=Pore Lining, M=Ma	triv
	Indicators: (Appli					airis.		Problematic Hydri	
		Cable to all Li				DDCTI		-	c dolla .
Histosol	oipedon (A2)		Polyvalue B Thin Dark S				· —	k (A9) (LRR O) k (A10) (LRR S)	
Black Hi			Loamy Mucl					Vertic (F18) (outside	MI RA 150A R)
I =	en Sulfide (A4)		Loamy Gley	-		. 0,		Floodplain Soils (F1	
	d Layers (A5)		Depleted Ma	•	,			is Bright Loamy Soils	
	Bodies (A6) (LRR F	P. T. U)	Redox Dark		6)		(MLRA		(. 20)
	ıcky Mineral (A7) (L		Depleted Da	`	,		`	nt Material (TF2)	
	esence (A8) (LRR I		Redox Depr					low Dark Surface (Ti	- 12)
	ıck (A9) (LRR P, T)		Marl (F10) (LRR U)			Other (Ex	plain in Remarks)	
Deplete	d Below Dark Surfac	ce (A11)	Depleted Od	chric (F11)	(MLRA 1	51)			
	ark Surface (A12)		Iron-Mangar					ors of hydrophytic veg	
	rairie Redox (A16) (Umbric Surf			, U)		d hydrology must be	
	Mucky Mineral (S1)	LRR O, S)	Delta Ochric					disturbed or problen	natic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont FI					-ap)	
_	Matrix (S6)	e T II\	Anomalous	Bright Loar	my Soils (F20) (MLR	RA 149A, 153C, 15	3D)	
	rface (S7) (LRR P, : Layer (if observed)								
	Layer (II Observed)	•							
Type:	-1>						Uhadaia Cail Da	12 V	No X
	ches):						nyaric Soil Pro	esent? Yes	NO <u>/ </u>
Remarks:	ydric soil was	not pres	ent						
	yano oon wac	not proc	Oric.						

Project/Site: San Jose Island City/C	ounty: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD06KNT_SJI
Investigator(s): CSK, KNT	on Township Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - gulf beach Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.91863 Soil Map Unit Name: Beaches	relief (concave, convey, none): None Slone (%): 0-1
Subregion (LRR or MLRA): LRR T / MLRA 150B Let. 27.91863:	4 Length -96.995185 Solpe (%) NAD83
Subregion (LRR of MLRA) Eat Lat Lat Lat Eaches	Long Baldinu Loog. M2USP
Soil Map Unit Name: Deaches	NWI classification: W2001
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N , Soil N , or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes No X
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes X No	within a Wetianu: 165 NO
Remarks:	
Although dominant hydrophytic vegetation and wet	
was determined to not be within a wetland due to the	ne absence of hydric soil.
LIVEROLOGY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13)	
High Water Table (A2) Marl Deposits (B15) (LRF	
Saturation (A3) Hydrogen Sulfide Odor (C	
Water Marks (B1) Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Iron	n (C4) Crayfish Burrows (C8)
Drift Deposits (B3)	Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations:	Gpriagnum moss (Do) (ERR 1, 0)
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), il avaliable.
Remarks:	
Wetland hydrology was present.	
Wettand frydrology was present.	

	mes of pl	anis.		Sampling Point: UD06KNT_S
		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
l				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B
3				-
7				Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
		= Total Cov	er	OBL species x 1 =
50% of total cover:	20% of	total cover:		FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 =
·				FACU species x 4 =
· 				UPL species x 5 =
				Column Totals: (A) (B)
3				
l				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
ò				1 - Rapid Test for Hydrophytic Vegetation
<u></u>				X 2 - Dominance Test is >50%
3				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover		
Herb Stratum (Plot size: 30' radius)	_			¹ Indicators of hydric soil and wetland hydrology must
1. Ipomoea pes-caprae	5	Y	FAC	be present, unless disturbed or problematic.
2. Spartina patens	2	<u>Y</u>	FACW	Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
4. <u> </u>				more in diameter at breast height (DBH), regardless of
5				height.
5				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3				Herb – All herbaceous (non-woody) plants, regardless
	<u> </u>			of size, and woody plants less than 3.28 ft tall.
10.				
in				Woody vine – All woody vines greater than 3.28 ft in height.
2.				neight.
	7	= Total Cov		
	 20% of			
500/ -51-1-1 3.5	2U% OT	total cover		
	20 /0 0.			
Noody Vine Stratum (Plot size:)				
Noody Vine Stratum (Plot size:)				
Noody Vine Stratum (Plot size:) 1 2				
Noody Vine Stratum (Plot size:) 1 2				
Noody Vine Stratum (Plot size:) 1 2 3 4				
Noody Vine Stratum (Plot size:) 1 2 3 4				Hydrophytic
Noody Vine Stratum (Plot size:) 1 2 3 4				Vegetation
Woody Vine Stratum (Plot size:) 1 2 3		= Total Cov	er	

SOIL Sampling Point: UD06KNT_SJI

ix. Soils³: MLRA 150A) (LRR P, S,
Soils ³ : MLRA 150A) (LRR P, S,
Soils ³ : MLRA 150A) (LRR P, S,
Soils ³ : MLRA 150A) (LRR P, S,
Soils ³ : MLRA 150A) (LRR P, S,
Soils ³ : MLRA 150A) (LRR P, S,
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Soils ³ : MLRA 150A) (LRR P, S,
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Soils ³ : MLRA 150A) (LRR P, S,
MLRA 150A,
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resent,
atic.
No X

Project/Site: San Jose Island City/C	ounty: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD07BPH_SJI
Investigator(s): BPH Section	on Township Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - hummock Local	relief (concave, convey, none): Convex
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.89674	2 Languary -97.014152 Sopre (1/8) NAD83
Soil Map Unit Name: Beaches	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N , Soil N , or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	
Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes No X
Hydrophytic Vegetation Present? Yes	within a Wetland? Yes No
Remarks:	
The sampled area was determined to not be within	a wetland due to the absence of dominant
hydrophytic vegetation, hydric soil, and wetland hy	drology.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13) Mad Banasite (B15) (B15)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Hydrogen Sulfide Odor (C	·
Water Marks (B1) Unique Saturation (AS) Water Marks (B1) Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Iron	
Drift Deposits (B3)	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	s) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	☐ Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was not present.	

		Dominan		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species'	? Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: $\frac{1}{}$ (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 33 (A/B)
6				Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by: OBL species 10 x 1 = 10
		= Total Co	ver	
50% of total cover:	20% o	f total cove	r:	17.6W species X Z =
Sapling/Shrub Stratum (Plot size:)				x o
1				
2				01 L species
3				Column Totals: 100 (A) 322 (B)
4				Prevalence Index = B/A = 3.22
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% o	f total cove	r:	
Herb Stratum (Plot size: 30'x30')				¹ Indicators of hydric soil and wetland hydrology must
1. Iva frutescens	25	Υ	FACW	be present, unless disturbed or problematic.
2. Chamaecrista fasciculata	25	Υ	FACU	Definitions of Four Vegetation Strata:
3. Schizachyrium scoparium	20	Υ	FACU	Tree Meady plants avaluding vines 2 in (7.6 cm) or
4. Uniola paniculata	5	N	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Physalis cinerascens	5	N	UPL	height.
6. Oenothera drummondii	5	N	UPL	Sapling/Shrub – Woody plants, excluding vines, less
7. Samolus ebracteatus	5	N	OBL	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8. Fimbristylis castanea	5	N	OBL	Herb – All herbaceous (non-woody) plants, regardless
9 Paspalum monostachyum	3	N	FACW	of size, and woody plants less than 3.28 ft tall.
10. Muhlenbergia capillaris	1	N	FAC	Washarina All I I I I I I I I I I I I I I I I I I
11. Conoclinium coelestinum	1	N	FAC	Woody vine – All woody vines greater than 3.28 ft in height.
12.				, in signal
· · · · · · · · · · · · · · · · · · ·	100	= Total Co	ver	
50% of total cover: 50	20% 0			
Woody Vine Stratum (Plot size:)				
1				
2.				
3				
4.				
5				Undeschatie
		= Total Co	ver	Hydrophytic Vegetation
50% of total cover:				Present? Yes No X
Remarks: (If observed, list morphological adaptations believed)			·· <u> </u>	
	•	ont		
Dominant hydrophytic vegetation was r	iot pres	ent.		

Sampling Point: UD07BPH_SJI

SOIL Sampling Point: UD07BPH_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of in	dicators.)	
Depth							_		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	<u> </u>
<u>0-18</u>	10YR 6/4	100					Loamy sand		
									_
				_					
				_					_
1Typo: C=C	oncentration, D=De	nlotion PM-P	oduced Matrix M	S-Mackad	Sand Gr	oine	² Location: DI =	Pore Lining, M=Ma	utriv
	Indicators: (Appli					airio.		Problematic Hydri	
Histosol		54510 to 411 <u>2</u> 1	Polyvalue B			PPSTI		-	
_	oipedon (A2)		Thin Dark S				· —	(A3) (LRR O) (A10) (LRR S)	
	stic (A3)		Loamy Much	-				ertic (F18) (outsid	e MLRA 150A.B)
I =	en Sulfide (A4)		Loamy Gley	-		. •,		loodplain Soils (F1	
	d Layers (A5)		Depleted Ma		,			Bright Loamy Soils	
	Bodies (A6) (LRR I	P, T, U)	Redox Dark		⁻ 6)		(MLRA 1		` ,
5 cm Μι	ıcky Mineral (A7) (L	.RR P, T, U)	Depleted Da	ırk Surface	(F7)		Red Parent	Material (TF2)	
	esence (A8) (LRR I		Redox Depr	•	8)			w Dark Surface (T	F12)
	ıck (A9) (LRR P, T)		Marl (F10) (I				U Other (Expl	ain in Remarks)	
	d Below Dark Surfa	ce (A11)	Depleted Oc		•		3		
	ark Surface (A12)	(MI DA 450A)	Iron-Mangar					of hydrophytic ve	
	rairie Redox (A16) (lucky Mineral (S1) (Umbric Surf			, U)		hydrology must be listurbed or probler	
	Gleyed Matrix (S4)	(LKK 0, 3)	Delta Ochric			ΛΔ 150R)		isturbed of probler	nauc.
	Redox (S5)		Piedmont FI						
	Matrix (S6)			-	, ,	•	RA 149A, 153C, 153	D)	
_	rface (S7) (LRR P,	S, T, U)	_	J	, ,	, ,	· , · · · ,	,	
Restrictive	Layer (if observed)):							
Type:									
Depth (in	ches):						Hydric Soil Pres	sent? Yes	No X
Remarks:							1		
H	ydric soil was	s not pres	ent.						

Project/Site: San Jose Island	City/County: Ara	nsas County	Sampling Date: 10/18/2021				
Applicant/Owner: Port of Corpus Christi Authority	- , , <u></u>	State: TX	Sampling Point: UD07KNT_SJI				
Investigator(s): CSK, KNT Landform (hillslope, terrace, etc.): Barrier island - top of primary dune	Section, Township	, Range: N/A					
Landform (hillslope, terrace, etc.). Barrier island - top of primary dune	Local relief (conca	ve convex none). Convex	Slope (%): 0-10				
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.9	318809	Long: -96.995455	Datum: NAD83				
Soil Map Unit Name: Beaches		NWI classific	ation: None				
Are climatic / hydrologic conditions on the site typical for this time of y	voor2 Voo X						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	y disturbed?						
		(If needed, explain any answer	,				
SUMMARY OF FINDINGS – Attach site map showing	g sampling poi	nt locations, transects	, important features, etc.				
Hydrophytic Vegetation Present? Yes No X	- Is the Sam	nled Area					
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X	within a W		No X				
	-						
Remarks:							
The sampled area was determined to not be v		nd due to the absend	ce of dominant				
hydrophytic vegetation, hydric soil, and wetlar	nd hydrology.						
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply))	Surface Soil	· · · · · · · · · · · · · · · · · · ·				
Surface Water (A1) Aquatic Fauna (B	•	_	getated Concave Surface (B8)				
High Water Table (A2) Marl Deposits (B1	•	☐ Drainage Pat					
Saturation (A3) Hydrogen Sulfide		Moss Trim Li	·				
☐ Water Marks (B1) ☐ Oxidized Rhizospl	heres along Living R	Roots (C3) ☐ Dry-Season \	Water Table (C2)				
Sediment Deposits (B2) Presence of Redu	uced Iron (C4)	🔲 Crayfish Burr	ows (C8)				
Drift Deposits (B3)	ıction in Tilled Soils (C6) 🔲 Saturation Vi	sible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2)							
Iron Deposits (B5) Under (Explain in I	Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral	` ,					
☐ Water-Stained Leaves (B9)		<u> </u>	noss (D8) (LRR T, U)				
Field Observations:	,						
	es):						
Water Table Present? Yes No X Depth (inchest Saturation Present? Yes No X Depth (inchest Saturation Present?		Wetland Hydrology Presen	t? Yes No X				
(includes capillary fringe)	,		t? Yes No				
Describe Recorded Data (stream gauge, monitoring well, aerial photos	tos, previous inspec	lions), if available:					
Damada							
Remarks:							
Wetland hydrology was not present.							

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Cov	/er	OBL species $\frac{0}{100}$ x 1 = $\frac{0}{100}$
50% of total cover:	20% of	total cover	:	FACW species 30 $\times 2 = 60$
Sapling/Shrub Stratum (Plot size:)				FAC species <u>17</u> x 3 = <u>51</u>
				FACU species <u>45</u> x 4 = <u>180</u>
1				UPL species 10 x 5 = 50
2				Column Totals: 102 (A) 341 (B)
3				
4				Prevalence Index = B/A = 3.3
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
		= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 30' radius)				¹ Indicators of hydric soil and wetland hydrology must
_{1.} Uniola paniculata	40	Υ	FACU	be present, unless disturbed or problematic.
2. Paspalum monostachyum	30	Υ	FACW	Definitions of Four Vegetation Strata:
3. Oenothera drummondii	10	N	UPL	
4 Sophora tomentosa	10	N	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Panicum amarum	5	\overline{N}	FAC	height.
6. Rayjacksonia phyllocephala	5	\overline{N}	FACU	Continue (Character Mondon Landon and Live in the Landon and Landon and Live in the Landon and Live in the Landon and Live in the Landon and Land
7. Ambrosia psilostachya	2	\overline{N}	FAC	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				and on Berraina greater than eize it (1 m) tam
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Cov		
50% of total cover: <u>51</u>	20% of	total cover	20.4	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4.				
5.				Underskutie
<u> </u>		= Total Cov		Hydrophytic Vegetation
50% of total cover:				Present? Yes No X
		total cover	· <u> </u>	
Remarks: (If observed, list morphological adaptations believed, in the control of	•			
Dominant hydrophytic vegetation was r	not prese	ent.		

Sampling Point: UD07KNT_SJI

SOIL Sampling Point: UD07KNT_SJI

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirm	the absence of i	indicators.)	
Depth	1						_		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-20	10YR 6/2	100					Sand		
-									
									_
¹ Type: C=C	oncentration, D=Dep	letion. RM=R	educed Matrix. M	S=Masked	Sand Gr	ains.	² Location: PL	=Pore Lining, M=Ma	trix.
	Indicators: (Applic							Problematic Hydric	
Histosol			Polyvalue Be			.RR S, T, U	J) \square 1 cm Muc	k (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su				. 🗀	k (A10) (LRR S)	
Black Hi			Loamy Muck	y Mineral	(F1) (LRR	(O)	Reduced \	Vertic (F18) (outside	MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedmont	Floodplain Soils (F19	9) (LRR P, S, T)
	d Layers (A5)		Depleted Ma					s Bright Loamy Soils	(F20)
	Bodies (A6) (LRR P		Redox Dark	,	,		(MLRA		
	icky Mineral (A7) (LI		Depleted Da					nt Material (TF2)	740)
	esence (A8) (LRR L ıck (A9) (LRR P, T)	')	Redox Depre	,	8)			low Dark Surface (TF plain in Remarks)	12)
	d Below Dark Surfac	e (A11)	Depleted Oc		(MIRA 1	51)	Other (LX)	piairi iri Nerriarks)	
	ark Surface (A12)	(, (, , , ,	Iron-Mangan		•	•	T) ³ Indicato	rs of hydrophytic veg	etation and
	rairie Redox (A16) (I	MLRA 150A)	_					d hydrology must be	
Sandy N	lucky Mineral (S1) (I	LRR O, S)	Delta Ochric	(F17) (ML	.RA 151)		unless	disturbed or problem	atic.
	Gleyed Matrix (S4)		Reduced Ve						
_	Redox (S5)		Piedmont Flo	-	, ,		•		
_	Matrix (S6)			Bright Loar	ny Soils (F20) (MLR	A 149A, 153C, 15	33D)	
	rface (S7) (LRR P, S Layer (if observed)								
Type:	Layer (II observed)	•							
Depth (in	chee):						Hydric Soil Pre	esent? Yes	X
Remarks:	Ciles)		<u> </u>				Tiyunc 3011 Te		
H	ydric soil was	not pres	ent.						
	,								

Project/Site: San Jose Island City/C	County: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD08BPH_SJI
In the standard SPH	Taumakin Banna N/A
Landform (hillslope, terrace, etc.): Barrier island - gulf beach Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.89167 Soil Map Unit Name: Not mapped	relief (concave, convex, none). None Slone (%): 0-1
Subregion (LRR or MLRA), LRR T / MLRA 150B Let. 27.89167	2 Jane -97.016677 Solve NAD83
Not manned	Long Batum Batum Batum.
Soil Map Unit Name: Not Happed	NVVI classification: W2001
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ significantly distur	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N , Soil N , or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	ppling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	
Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes No X
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes X No	within a wetiand?
Remarks:	
Although wetland hydrology was present, the samp	
wetland due to the absence of dominant hydrophy	tic vegetation and hydric soil.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRI	R U) Prainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (
☐ Water Marks (B1) ☐ Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Iro Presence of Reduced Iro Presence of Reduced Iro Presence of Reduced Iro	
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in ☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface (C7)	Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remark	<u> </u>
✓ Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was present.	

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point: _UD08BPH_SJI Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: _____) % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant ___ (B) Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B) 6. _____ ___ ___ Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ = Total Cover FACW species _____ x 2 = ____ 50% of total cover: _____ 20% of total cover: ____ FAC species _____ x 3 = ____ Sapling/Shrub Stratum (Plot size: _____) FACU species _____ x 4 = ____ UPL species _____ x 5 = ____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____ Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 _____ = Total Cover ___ Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: _____ 20% of total cover: ____ Herb Stratum (Plot size: 30'x30' ¹Indicators of hydric soil and wetland hydrology must 1 Sesuvium portulacastrum **FACW** be present, unless disturbed or problematic. 2. Panicum amarum FAC **Definitions of Four Vegetation Strata:** 3. Ipomea pes-caprae 1 FAC Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. **Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. 3 _ = Total Cover 50% of total cover: ____ ____ 20% of total cover: ____ Woody Vine Stratum (Plot size:) Hydrophytic _____ = Total Cover Vegetation Yes No X Present? 50% of total cover: 20% of total cover: Remarks: (If observed, list morphological adaptations below). Dominant hydrophytic vegetation was not present as the total coverage did not equal at least five

percent.

SOIL Sampling Point: UD08BPH_SJI

Depth							,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remark	s
0-18	10YR 7/1	100					Sand		
	•								
									
									
				_					
T 0 6			and an and Marketin Re	10 Marilia			21	Daniel Linius M. M.	- 6-2
	Concentration, D=De Indicators: (Applicators)					ains.		=Pore Lining, M=M Problematic Hydi	
		cable to all Li				DD C T I		-	ic soils .
Histoso	pipedon (A2)		Polyvalue B Thin Dark S				· —	k (A9) (LRR O) k (A10) (LRR S)	
=	listic (A3)		Loamy Muc	-				Vertic (F18) (outsic	le MI RA 150A F
	en Sulfide (A4)		Loamy Gley	•	. , .	. •,		Floodplain Soils (F	
	d Layers (A5)		Depleted Ma		,			is Bright Loamy Soi	
	Bodies (A6) (LRR I	P, T, U)	Redox Dark	Surface (F	- 6)		(MLRA	-	
5 cm M	ucky Mineral (A7) (L	.RR P, T, U)	Depleted Da	ark Surface	e (F7)			nt Material (TF2)	
	resence (A8) (LRR		Redox Depr		8)		—	low Dark Surface (ΓF12)
	uck (A9) (LRR P, T)						U Other (Ex	plain in Remarks)	
=	ed Below Dark Surfa	ce (A11)	Depleted O		•	•	- 3		
=	ark Surface (A12)	(MI DA 450A)	Iron-Manga					rs of hydrophytic ve	-
	Prairie Redox (A16) (Mucky Mineral (S1) (_			, U)		d hydrology must be disturbed or proble	
_	Gleyed Matrix (S4)	(LKK 0, 3)	Delta Ochrid			.0Δ 150R)		disturbed of proble	mauc.
_	Redox (S5)		Piedmont Fl						
=	d Matrix (S6)						RA 149A, 153C, 15	53D)	
_	urface (S7) (LRR P,	S, T, U)	_	J	, ,	. , ,	,,	,	
	Layer (if observed)								
Type:									
Depth (ir	nches):						Hydric Soil Pro	esent? Yes	No X
Remarks:	,						1 -		
F	łydric soil was	s not pres	ent.						

Project/Site: San Jose Island City/C	county: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD08KNT_SJI
	on, Township, Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - gulf beach Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.91415	relief (concave, convey, none): None Slone (%): 0-1
Subragion (LRR or MLRA), LRR T / MLRA 150B Lat. 27.91415	9 Loggy -96.998801 Solve (70) NAD83
Soil Map Unit Name: Beaches	NWI classification: M2USP
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N , Soil N , or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	ppling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	
Hydric Soil Present? Yes X No	Is the Sampled Area within a Wetland? Yes No X
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	within a Wetland? Yes No
Remarks:	
Although hydric soil and wetland hydrology were p	resent, the sampled area was determined to not
be within a wetland due to the absence of dominar	nt hydrophytic vegetation.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Sparsoly Vegetated Conceins Surface (BR)
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Marl Deposits (B15) (LRF	Sparsely Vegetated Concave Surface (B8) R U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C	
Water Marks (B1) Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Iro	
Drift Deposits (B3)	Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	☐ Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No _X Depth (inches):	
Surface Water Present? Yes No _X Depth (inches): Water Table Present? Yes No _X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was present.	
Welland hydrology was present.	

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point: _UD08KNT_SJI Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: _____) % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: _____(A) Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B) 6. _____ ___ ___ Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ = Total Cover FACW species _____ x 2 = ____ 50% of total cover: _____ 20% of total cover: ____ FAC species _____ x 3 = ____ Sapling/Shrub Stratum (Plot size: _____) FACU species _____ x 4 = ____ UPL species _____ x 5 = ____ Column Totals: _____ (A) ____ (B) Prevalence Index = B/A = _____ Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 ___ Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: _____ 20% of total cover: ____ Herb Stratum (Plot size: 30' radius ¹Indicators of hydric soil and wetland hydrology must 1 Sesuvium portulacastrum **FACW** be present, unless disturbed or problematic. 2. Ipomoea pes-caprae FAC **Definitions of Four Vegetation Strata:** 3. Sporobolus virginicus 1 **FACW** Tree - Woody plants, excluding vines, 3 in, (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. **Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. 3 = Total Cover 50% of total cover: 1.5 ___ 20% of total cover: 0.6 Woody Vine Stratum (Plot size:) Hydrophytic _____ = Total Cover Vegetation Yes No X Present? 50% of total cover: _____ 20% of total cover: ___ Remarks: (If observed, list morphological adaptations below).

Dominant hydrophytic vegetation was not present since the total cover was less than five percent.

SOIL Sampling Point: UD08KNT_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of i	indicators.)	
Depth	Matrix	<u> </u>		x Feature		Loc ²	Tantona	Damania	
(inches) 0-20	Color (moist) 10YR 5/2		Color (moist) 10YR 5/6	2	Type ¹	M	<u>Texture</u> sand	Remarks	
0-20	10113/2	_ 90 _	1011 3/0		<u> </u>	<u> </u>	Saliu		
									_
				-					
	-								
									
¹ Type: C=C	oncentration, D=De	pletion, RM=F	Reduced Matrix, M	S=Masked	d Sand G	rains.	² Location: PL	=Pore Lining, M=Matrix	κ.
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless othe	rwise not	ed.)		Indicators for	Problematic Hydric S	Soils³:
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (LRR S, T, I	υ) <u> </u>	k (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su	urface (S9)	(LRR S	, T, U)		k (A10) (LRR S)	
_	stic (A3)		Loamy Muck	-		R O)		Vertic (F18) (outside N	
	en Sulfide (A4)		Loamy Gleye		F2)			Floodplain Soils (F19)	
	d Layers (A5)	. T III	Depleted Ma		-0)			is Bright Loamy Soils (F	-20)
	Bodies (A6) (LRR I cky Mineral (A7) (L		Redox Dark	`	,		(MLRA	าร งธ) nt Material (TF2)	
	esence (A8) (LRR I		Depleted Da Redox Depre					low Dark Surface (TF1)	2)
	ick (A9) (LRR P, T)	٠,	Marl (F10) (L		0)			plain in Remarks)	-,
	d Below Dark Surfa	ce (A11)	Depleted Oc		(MLRA 1	151)	<u> </u>	,	
Thick Da	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12)	(LRR O, P	, T) ³ Indicato	rs of hydrophytic veget	ation and
	rairie Redox (A16) (_					d hydrology must be pr	
	lucky Mineral (S1)	LRR O, S)	Delta Ochric					disturbed or problemat	ic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5) Matrix (S6)		Piedmont Flo				49A) RA 149A, 153C, 15	:2D)	
	rface (S7) (LRR P,	S T II)	<u> </u>	origrit Loai	ny Sons	(FZU) (WILF	KA 149A, 133C, 13	וטפט	
	Layer (if observed)								
Type:	.,								
	ches):						Hydric Soil Pre	esent? Yes X	No
Remarks:							1.,		
H	ydric soil was	present							
	-	•							

Project/Site: San Jose Island City/C	ounty: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD09BPH_SJI
	on, Township, Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - coppice dune Local	relief (concave, convex, page): Convex
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.89220	6 Length -97.017578 Solpe (1/8) NAD83
Soil Map Unit Name: Beaches	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N , Soil N , or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes	In the Complet Area
Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes No X
Wetland Hydrology Present? Yes X No	within a Wetianu: 165 NO
Remarks:	
Although dominant hydrophytic vegetation and wet	
was determined to not be within a wetland due to t	he absence of hydric soil.
LIVERGLOOV	
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRF	
Saturation (A3) Hydrogen Sulfide Odor (C	
Water Marks (B1) Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Iron	n (C4) Crayfish Burrows (C8)
Drift Deposits (B3)	Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark ☐ Inundation Visible on Aerial Imagery (B7)	
☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9)	✓ FAC-Neutral Test (D5)✓ Sphagnum moss (D8) (LRR T, U)
Field Observations:	— Opriagnam moss (50) (Erric 1, 0)
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections) if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious irispections), ii avaliable.
Remarks:	
Wetland hydrology was present.	
Trought hydrology was prosont.	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Dancart of Dancin and Consider
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				(/\begin{align*} \text{//\text{intervalse}} \text{/\text{/\text{intervalse}}} \text{/\text{/\text{intervalse}}} \text{/\text{/\text{intervalse}}} \text{/\text{intervalse}}
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
·		= Total Cov		OBL species x 1 =
EON of total across				FACW species x 2 =
50% of total cover:	20% 01	total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =
1				UPL species x 5 =
2				Column Totals: (A) (B)
3				Column rotals (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				
<u> </u>		= Total Cov		3 - Prevalence Index is ≤3.0 ¹
EON of total across				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	·	
Herb Stratum (Plot size: 30'x30')	47	V	E A C\A/	¹ Indicators of hydric soil and wetland hydrology must
1. Spartina patens	_ 17	<u>Y</u>	FACW	be present, unless disturbed or problematic.
2. Sesuvium portulacastrum	2	<u>N</u>	FACW	Definitions of Four Vegetation Strata:
3. Ipomea pes-caprae		N	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6.				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
	20	= Total Cov	er er	
50% of total cover: 10	20% of	total cover	: <u>4</u>	
Woody Vine Stratum (Plot size:)				
1				
2.				
3.				
4				
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes X No
50% of total cover:	20% of	total cover	:	11030IR. 103 RO
Remarks: (If observed, list morphological adaptations believed)	ow).			
Dominant hydrophytic vegetation was p	resent			
zerimiani nyarepnyae regetation nae p	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

Sampling Point: UD09BPH_SJI

SOIL Sampling Point: UD09BPH_SJI

Depth	Matrix	-	Redox	ent the indicator or confirm Features		
(inches)	Color (moist)	<u>%</u>	Color (moist)	% Type ¹ Loc ²	Texture	Remarks
0-18	10YR 7/1	100	· -		Sand	
	-					
			-			
			·			
• • • • • • • • • • • • • • • • • • • •		•		Masked Sand Grains.		L=Pore Lining, M=Matrix.
		cable to all L	RRs, unless otherw	•	_	r Problematic Hydric Soils ³ :
Histoso			=	w Surface (S8) (LRR S, T, U		ck (A9) (LRR O) ck (A10) (LRR S)
	pipedon (A2) istic (A3)			ace (S9) (LRR S, T, U) Mineral (F1) (LRR O)		Vertic (F18) (outside MLRA 150A,B)
=	en Sulfide (A4)		Loamy Gleyed			t Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Matri			us Bright Loamy Soils (F20)
	Bodies (A6) (LRR		Redox Dark Su	` '	☐ (MLRA	•
	ucky Mineral (A7) (I		Depleted Dark	` '		ent Material (TF2)
	resence (A8) (LRR uck (A9) (LRR P, T)		Redox Depress Marl (F10) (LR	, ,		llow Dark Surface (TF12) plain in Remarks)
=	d Below Dark Surfa		= ' '	c (F11) (MLRA 151)	Circle (Ex	cplain in Remarks)
	ark Surface (A12)	(,,,,,	_	e Masses (F12) (LRR O, P,	, T) ³ Indicato	ors of hydrophytic vegetation and
Coast F	rairie Redox (A16)	(MLRA 150A)	_	e (F13) (LRR P, T, U)		nd hydrology must be present,
_	Mucky Mineral (S1)	(LRR O, S)		17) (MLRA 151)		s disturbed or problematic.
_	Gleyed Matrix (S4)		=	c (F18) (MLRA 150A, 150B)		
	Redox (S5) d Matrix (S6)			dplain Soils (F19) (MLRA 1 4 ght Loamy Soils (F20) (MLR		E3D)
=	urface (S7) (LRR P,	S. T. U)	Anomalous brig	gnt Loanly Sons (1 20) (INLA	A 149A, 133C, 1	330)
	Layer (if observed					
Туре:						
Depth (ir	ches):				Hydric Soil Pr	resent? Yes No X
Remarks:					I.	
F	lydric soil wa	s not pres	sent.			

Applicant/Owner: Port of Corpus Christi Authority Investigator(s): CSK, KNT Section Landform (hillslope, terrace, etc.): Barrier island - top of primary dunes Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.914442 Soil Map Unit Name: Beaches Are climatic / hydrologic conditions on the site typical for this time of year? Year	2 Long:96.999185 Datum: NAD83 NWI classification: M2USP es X No (If no, explain in Remarks.)
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ significantly disturbance Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ naturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydric Soil Present?	
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water Marks (B9) Field Observations:	Moss Trim Lines (B16) ong Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Surface Water Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No X
Remarks: Wetland hydrology was not present.	

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				Develop of Developer Charles
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)
6				
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		= Total Cov	er	OBL species 0 x 1 = 0
50% of total cover:				FACW species <u>45</u> x 2 = <u>90</u>
Sapling/Shrub Stratum (Plot size:)	2070 01	total cover	·	FAC species 10 x 3 = 30
				FACU species 40 x 4 = 160
1				UPL species 10 x 5 = 50
2				Column Totals: 105 (A) 330 (B)
3				(-)
4				Prevalence Index = B/A = 3.1
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 30' radius				¹ Indicators of hydric soil and wetland hydrology must
1. Paspalum monostachyum	40	Υ	FACW	be present, unless disturbed or problematic.
2. Chamaecrista fasciculata	20	Y	FACU	Definitions of Four Vegetation Strata:
3. Physalis angulata	20	Υ	FACU	
4. Chasmanthium latifolium	10	\overline{N}	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Oenothera drummondii	10	N	UPL	height.
6. Spartina patens	5	<u>N</u>	FACW	
···		<u></u>	171011	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				than 3 iii. DBH and greater than 3.20 it (1 iii) taii.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	105	= Total Cov	er	
50% of total cover: <u>52.5</u>	20% of	total cover	21	
Woody Vine Stratum (Plot size:)				
1				
2.				
3.				
4				
5				Hydrophytic
		= Total Cov		Vegetation Present? Yes No X
50% of total cover:		total cover		
Remarks: (If observed, list morphological adaptations belo	w).			
Dominant hydrophytic vegetation was n	ot prese	ent.		

Sampling Point: UD09KNT_SJI

SOIL Sampling Point: UD09KNT_SJI

Depth	Matrix			ox Feature	S		n the absence o			
(inches)	Color (moist)	<u> %</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-20	10YR 6/4	<u> 100 </u>					Sand			
				_						
				_						
	oncentration, D=De					ains.			ning, M=Mati	
Hydric Soil	Indicators: (Applie	cable to all Li	RRs, unless other	erwise not	ed.)		Indicators f	or Problen	natic Hydric	Soils ³ :
Histoso	l (A1)		Polyvalue B	elow Surfa	ce (S8) (L	.RR S, T, l	Ս) <u> </u>	uck (A9) (L	RR O)	
Histic E	pipedon (A2)		Thin Dark S	urface (S9)	(LRR S,	T, U)	2 cm Mı	uck (A10) (I	LRR S)	
Black H	istic (A3)		Loamy Muc	ky Mineral	(F1) (LRF	(O)		•		MLRA 150A,B
	en Sulfide (A4)		Loamy Gley	ed Matrix (F2)) (LRR P, S, T)
	d Layers (A5)		Depleted Ma	, ,				_	Loamy Soils	(F20)
	Bodies (A6) (LRR F		Redox Dark	•	,			A 153B)		
	ucky Mineral (A7) (L		Depleted Da		` '			rent Materia		
	resence (A8) (LRR I		Redox Depr	•	8)				Surface (TF	12)
	uck (A9) (LRR P, T)		☐ Marl (F10) (-		-4\	U Other (E	Explain in R	(emarks)	
= '	d Below Dark Surface	ce (A11)	Depleted O		•	•	T\ 3Indian	امريط کم مسمد		station and
	ark Surface (A12) ^v rairie Redox (A16) (MI DA 150A)	☐ Iron-Manga						rophytic vege	
	Mucky Mineral (S1) (Delta Ochrid			, 0)		-	d or problem	
_	Gleyed Matrix (S4)	LKK 0, 3)	Reduced Ve			ΛΔ 150R)		ss distuibet	a or problem	auc.
_	Redox (S5)		Piedmont F							
_	d Matrix (S6)						RA 149A, 153C,	153D)		
=	urface (S7) (LRR P,	S. T. U)	/thomalous	Drigitt Loai	ily Colls (1 20) (IVILI	1434, 1330,	1330)		
	Layer (if observed)									
Type:		,-								
	oboo):						Hydric Soil F	Procent?	Voc	No X
Depth (ir							nyuric Soil F	resent?	162	_ NO <u></u>
Remarks:	<u> </u>	s not nres	ent							
Remarks: 	lydric soil was	s not pres	ent.							
Remarks: -	<u> </u>	s not pres	ent.							
Remarks: -	<u> </u>	s not pres	ent.							
Remarks: -	<u> </u>	s not pres	ent.							
Remarks: -	<u> </u>	s not pres	ent.							
Remarks: 	<u> </u>	s not pres	ent.							
Remarks: 	<u> </u>	s not pres	ent.							
Remarks: F	<u> </u>	s not pres	ent.							
Remarks: F	<u> </u>	s not pres	ent.							
Remarks: F	<u> </u>	s not pres	ent.							
Remarks: F	<u> </u>	s not pres	ent.							
Remarks: F	<u> </u>	s not pres	ent.							
Remarks: F	<u> </u>	s not pres	ent.							
Remarks: F	<u> </u>	s not pres	ent.							
Remarks: F	<u> </u>	s not pres	ent.							
Remarks: F	<u> </u>	s not pres	ent.							
Remarks: H	<u> </u>	s not pres	ent.							
Remarks: F	<u> </u>	s not pres	ent.							
Remarks: F	<u> </u>	s not pres	ent.							
Remarks:	<u> </u>	s not pres	ent.							
Remarks: F	<u> </u>	s not pres	ent.							
Remarks:	<u> </u>	s not pres	ent.							
Remarks:	<u> </u>	s not pres	ent.							

Project/Site: San Jose Island City/C	ounty: Aransas County Sampling Date: 10/19/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD10BPH_SJI
	on, Township, Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - gulf beach Local	relief (concave, convey, none): Undulating Slope (%): 3-5
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.88706	7 Lengt -97.020130 Sope (%) NAD83
Soil Map Unit Name: Not mapped	NWI classification: M2USP
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N , Soil N , or Hydrology N naturally problems	ttic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes	In the Commind Area
Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes No X
Wetland Hydrology Present? Yes X No	within a wetiant: 1es NO
Remarks:	
Although dominant hydrophytic vegetation and wet	
was determined to not be within a wetland due to t	ne absence of hydric soil.
LIVERGLOOV	
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Surface Water (A1) Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRF	
Saturation (A3) Hydrogen Sulfide Odor (C	
Water Marks (B1) Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Iron	n (C4)
Drift Deposits (B3)	Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	
☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9)	✓ FAC-Neutral Test (D5)✓ Sphagnum moss (D8) (LRR T, U)
Field Observations:	Spriagram moss (Do) (ERR 1, 0)
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was present.	
Wediana riyarology was present.	

	mes of pl	ants.		Sampling Point: UD10BPH_S
		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
J				Species Across All Strata: 2 (B)
5	_			Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B
S				,
7				Prevalence Index worksheet:
3				Total % Cover of: Multiply by:
		= Total Cov	er	OBL species x 1 =
50% of total cover:	20% of	total cover	:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)	_			FAC species x 3 =
•				FACU species x 4 =
				UPL species x 5 =
				Column Totals: (A) (B)
				D 1 1 1 D/A
				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
i				1 - Rapid Test for Hydrophytic Vegetation
· 3				X 2 - Dominance Test is >50%
•		= Total Cov		3 - Prevalence Index is ≤3.0 ¹
EOO/ of total covers				Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: <u>Herb Stratum</u> (Plot size: <u>30'x30'</u>)	20% 01	total cover	·	
Sporobolus virginicus	30	Υ	FACW	¹ Indicators of hydric soil and wetland hydrology must
Fimbristylis castanea	15	Y	OBL	be present, unless disturbed or problematic.
	10	N	FACW	Definitions of Four Vegetation Strata:
Spartina patens				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
Panicum amarum	<u>6</u> 5	$\frac{N}{N}$	FAC UPL	more in diameter at breast height (DBH), regardless of height.
Oenothera drummondii	2			neight.
Sesuvium portulacastrum	2	N	FACW	Sapling/Shrub – Woody plants, excluding vines, less
pomoea pes-caprae		<u>N</u>	FAC	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
0				Weedwaine Allowed wines weeks they 200 ft in
11.				Woody vine – All woody vines greater than 3.28 ft in height.
12.				ling.iii
	70	= Total Cov	er	
50% of total cover: 35	20% of			
Voody Vine Stratum (Plot size:)	20 70 01	total cover	·	
•				
2.				
3				
4				
••				Hydrophytic
			er	Vegetation
5.	:			
			:	Present? Yes X No

SOIL Sampling Point: UD10BPH_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of	indicators.)	
Depth	<u>Matrix</u>			ox Feature:					
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	<u> </u>
0-18	10YR 5/2	100					Sand		
	-								
1Typo: C=C	oncentration, D=De _l	olotion DM-D	oduced Matrix M	S-Mackad	I Sand Gr	nine	² Location: DI	L=Pore Lining, M=Ma	utriv
	Indicators: (Applic					airio.		r Problematic Hydri	
Histosol		, , , , , , , , , , , , , , , , , , ,	Polyvalue B			DD S T I		ck (A9) (LRR O)	
_	oipedon (A2)		Thin Dark S				· —	ck (A10) (LRR S)	
Black Hi			Loamy Much					Vertic (F18) (outside	e MLRA 150A.B)
I =	n Sulfide (A4)		Loamy Gley	-		. •,		t Floodplain Soils (F1	
	d Layers (A5)		Depleted Ma	,	. –,			us Bright Loamy Soils	
	Bodies (A6) (LRR F	P, T, U)	Redox Dark		- 6)		(MLRA		` ,
	ıcky Mineral (A7) (L		Depleted Da	ırk Surface	(F7)		<u></u> Red Pare	ent Material (TF2)	
Muck Pr	esence (A8) (LRR (J)	Redox Depr	essions (F	8)		<u></u> Very Sha	llow Dark Surface (T	F12)
<u>Π</u> 1 cm Μι	ıck (A9) (LRR P, T)		Marl (F10) (I	LRR U)			<u></u> Other (E≻	kplain in Remarks)	
	d Below Dark Surfac	ce (A11)	Depleted Oc		•		0		
_	ark Surface (A12)		☐ Iron-Mangar					ors of hydrophytic veg	
	rairie Redox (A16) (Umbric Surf			, U)		nd hydrology must be	
	lucky Mineral (S1) (LRR O, S)	Delta Ochric			04 450D\		s disturbed or problen	natic.
	Gleyed Matrix (S4)		Reduced Ve						
	ledox (S5) Matrix (S6)		Piedmont FI	-			ғ9А) RA 149A, 153С, 1:	E2D)	
_	rface (S7) (LRR P, :	S T III	Anomalous	Brigiit Loai	ily Solis (rzu) (IVILK	KA 149A, 155C, 1	330)	
	_ayer (if observed)								
Type:									
, , <u> </u>	ches):						Hydric Soil Pr	resent? Yes	X
Remarks:							Tiyano con Ti		
H	ydric soil was	not pres	ent.						
	,	Į.							

Project/Site: San Jose Island	City/County: Ara	nsas County	Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	- , , <u></u>	State: TX	Sampling Point: UD10KNT_SJI
Investigator(s): CSK, KNT Landform (hillslope, terrace, etc.): Barrier island - gulf beach	Section, Township	. Range: N/A	
Landform (hillslope, terrace, etc.): Barrier island - gulf beach	Local relief (conca	ve. convex. none): None	Slope (%): 0-1
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.9	909667	Long: -97.002459	Datum: NAD83
Soil Map Unit Name: Beaches		NWI classific	eation: M2USP
Are climatic / hydrologic conditions on the site typical for this time of	vear? Yes X		
Are Vegetation N , Soil N , or Hydrology N significant			
Are Vegetation N, Soil N, or Hydrology N naturally p	problematic?	(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site map showin		· · · · ·	,
		<u> </u>	· · · · ·
Hydrophytic Vegetation Present? Yes No No Yes No X	Is the Sam	-	V
Hydrophytic Vegetation Present? Yes	within a W	etland? Yes	No <u>^</u>
Remarks:			
Although wetland hydrology was present, the	sampled area	was determined to	not be within a
wetland due to the absence of dominant hydr	•		
	. , .	,	
LIVEROL OCY			
HYDROLOGY Westernd Hydrology Indicators		Cacandamiladia	tore (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply	٨	Secondary indication in Surface Soil	ators (minimum of two required)
Surface Water (A1) Surface Water (A1) Aquatic Fauna (B	•		getated Concave Surface (B8)
High Water Table (A2) Addatic Faulta (B) Marl Deposits (B)	•	Drainage Pa	=
Saturation (A3) Hydrogen Sulfide		Moss Trim L	· ·
	oheres along Living R	_	Water Table (C2)
Sediment Deposits (B2)	uced Iron (C4)	🔲 Crayfish Bur	rows (C8)
	uction in Tilled Soils (isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		=	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Inundation Visible on Aerial Imagery (B7)	Remarks)	<u>∐</u> Shallow Aqu	` '
Water-Stained Leaves (B9)		=	noss (D8) (LRR T, U)
Field Observations:		<u> </u>	1033 (D0) (EIRR 1, 0)
V	es):		
Water Table Present? Yes No X Depth (inche			
	es):	Wetland Hydrology Preser	nt? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho		tions) if available:	
Describe Recorded Data (Stream gauge, monitoring well, aerial pric	nos, previous irispec	lions), ii avaliable.	
Remarks:	_		
Wetland hydrology was present.			
Wettand hydrology was present.			

Sampling Point: UD10KNT_SJI **VEGETATION (Four Strata)** – Use scientific names of plants. Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: _____) % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: (A)

					· <u> </u>	
2				Total Number of Dominal		(D)
3				Species Across All Strata	ı:	(B)
4				Percent of Dominant Spe		(4 (5)
5				That Are OBL, FACW, or	FAC:	(A/B)
6				Prevalence Index works	sheet:	
7				Total % Cover of:	Multiply b	oy:
8				OBL species	x 1 =	
500/ 51 4 1		= Total Co		FACW species		
50% of total cover:	20%	of total cover	¨	FAC species		
Sapling/Shrub Stratum (Plot size:)				FACU species		
1				· ·	x 5 =	
2				Column Totals:		
3				Column rotals.	(A)	(D)
4				Prevalence Index =	= B/A =	
5				Hydrophytic Vegetation	Indicators:	
6				1 - Rapid Test for Hy		on
7				2 - Dominance Test	is >50%	
8				3 - Prevalence Index		
		= Total Co	ver	Problematic Hydroph		-xolain)
50% of total cover:	20%	of total cover	·:		.,	,
Herb Stratum (Plot size: 30' radius				¹ Indicators of hydric soil a	and wotland hydrol	oav must
1. Sesuvium portulacastrum	3	Υ	FACW	be present, unless distur		
2. Sporobolus virginicus	1		FACW	Definitions of Four Veg	·	
3.				_		
4.				Tree – Woody plants, ex- more in diameter at breas		
5.				height.	st fielgift (DDF1), Te	gardiess of
6				Sapling/Shrub – Woody than 3 in. DBH and great		
7				and o mi BBH and group	or than 0120 it (1 ii	1) tall
8				Herb – All herbaceous (r		
9				of size, and woody plants	1688 man 3.20 m a	all.
10				Woody vine – All woody	vines greater than	3.28 ft in
11				height.		
12						
	4	= Total Co				
50% of total cover: 2	20%	of total cover	·: 0.8			
Woody Vine Stratum (Plot size:)						
1						
2						
3						
4						
5				Hydrophytic		
		= Total Co	ver	Vegetation		
E00/ of tot-1	200/	ef total acces		Present? Yes	No X	

Remarks: (If observed, list morphological adaptations below).

Dominant hydrophytic vegetation was not present since the total cover was less than five percent.

50% of total cover: _____ 20% of total cover: ___

SOIL Sampling Point: UD10KNT_SJI

ioils³:
olis .
LRA 150A,
(LRR P, S,
20)
,
2)
ation and
esent, ic .
C.
No X

Applicant/Owner: Port of Corpus Christi Authority Investigator(s): BPH Section Landform (hillslope, terrace, etc.): Barrier island - beach dune Local Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.88724 Soil Map Unit Name: Beaches Are climatic / hydrologic conditions on the site typical for this time of year? Mare Vegetation N, Soil N, or Hydrology N significantly disturbed.	rbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation \underline{N} , Soil \underline{N} , or Hydrology \underline{N} naturally problem SUMMARY OF FINDINGS – Attach site map showing san	atic? (If needed, explain any answers in Remarks.) npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: The sampled area was determined to not be withir hydrophytic vegetation, hydric soil, and wetland hy	
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Aquatic Fauna (B13) Marl Deposits (B15) (LR Hydrogen Sulfide Odor (Oxidized Rhizospheres a Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain in Remark Other (Explain in Remark) Water-Stained Leaves (B9)	C1)
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, present)	Wetland Hydrology Present? Yes No X
Remarks: Wetland hydrology was not present.	

mes of pl	ants.		Sampling Point: UD11BPH_
	Dominant		Dominance Test worksheet:
			Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
			That Are OBL, FACW, or FAC.
			Total Number of Dominant
			Species Across All Strata: 1 (B)
			Percent of Dominant Species
			That Are OBL, FACW, or FAC: 0 (A/E
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
			OBL species 0 $x 1 = 0$
			FACW species $0 x 2 = 0$
20% of	total cover	:	FAC species 4 x 3 = 12
			FACU species 85 x 4 = 340
			UPL species 1 x 5 = 5
			Column Totals: 90 (A) 357 (B)
			(A) (D)
			Prevalence Index = B/A = 4
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
			3 - Prevalence Index is ≤3.0 ¹
:	= Total Cov	er er	Problematic Hydrophytic Vegetation ¹ (Explain)
20% of	total cover	:	
			¹ Indicators of hydric soil and wetland hydrology must
	<u>Y</u>		be present, unless disturbed or problematic.
3	N	FAC	Definitions of Four Vegetation Strata:
1	N	UPL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of
1	N	FAC	more in diameter at breast height (DBH), regardless of
			height.
			Sapling/Shrub – Woody plants, excluding vines, less
			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardless
			of size, and woody plants less than 3.28 ft tall.
			Weedy vine All weedy vines greater than 2.29 ft in
			Woody vine – All woody vines greater than 3.28 ft in height.
90	= Total Cov	/er	
			Liverantic
		·er	Hydrophytic Vegetation
	= Total Cov		Hydrophytic Vegetation Present? Yes No X
	20% of 85 3 1 1 1 90 20% of 90 20% of	= Total Cover =	= Total Cover 20% of total cover: 85

SOIL Sampling Point: UD11BPH_SJI

	Matrix		Red	ox Feature	S		n the absence o			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-18	10YR 7/2	100		_			Sand			
	-	-			-					
				_						
	-									
	-									
<u> </u>		- Infine DM D	Andrea al Martela N				21	D. Daniel Co	NA NA-1-	
	oncentration, D=Deplicators: (Application)					ains.	Indicators f		ning, M=Matr	
_		Jabie io ali Li				DD C T I			-	Julis .
Histosol	pipedon (A2)		Polyvalue B Thin Dark S				· -	uck (A9) (LF uck (A10) (L		
=	istic (A3)		Loamy Mucl							MLRA 150A,E
=	en Sulfide (A4)		Loamy Gley	•	. , .	• • •		•	, .	(LRR P, S, T
	d Layers (A5)		Depleted Ma		,				oamy Soils (•
	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	6)			A 153B)	·	
	ucky Mineral (A7) (L		Depleted Da		` ,			rent Materia		
	resence (A8) (LRR l		Redox Depr	•	8)				Surface (TF	12)
_	uck (A9) (LRR P, T)		☐ Marl (F10) (•			U Other (E	Explain in R	emarks)	
= '	d Below Dark Surfac	ce (A11)	Depleted Oc		•	•	- \ 3			
=	ark Surface (A12)	MI DA 150A\	Iron-Mangai					-	ophytic vege gy must be p	
	rairie Redox (A16) (Jucky Mineral (S1) (Umbric Surf			, 0)		-	gy must be p I or problema	
_	Gleyed Matrix (S4)	LKK 0, 3)	Reduced Ve			0A. 150B)		ss distuibed	i di pidbieilia	auc.
_	Redox (S5)		Piedmont FI							
_	d Matrix (S6)						RA 149A, 153C,	153D)		
_	ırface (S7) (LRR P, 3	S, T, U)	<u>—</u>	J	·	, ,		,		
Restrictive	Layer (if observed)):								
Type:										
	ches):						Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:			<u> </u>				Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:	ches):	s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	<u>No_X</u>
Type: Depth (in temarks:		s not pres	 ent.				Hydric Soil F	resent?	Yes	No <u>X</u>
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	_ No <u>X</u>
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	. No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	_ No <u>X</u>
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	resent?	Yes	_ No <u>X</u>
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	_ No <u>X</u>
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	. No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	. No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X

Project/Site: San Jose Isla Applicant/Owner: Port of Co	and orpus Christi Auth		ounty: Araı	nsas County	Sampling Date	
Investigator(s): CSK, KNT	<u> </u>				Sampling Point	<u> </u>
Landform (hillslope, terrace, etc	Barrier island - top of pri	Section	on, rownsnip	, Range: 1471	Vex	, (v. 0-15
Subregion (LRR or MLRA): LF	>): >R T / MI RΔ 1501	Local	relief (conca	/e, convex, none): <u>2311</u>	1 - Sic	pe (%): <u>σ 10 </u>
		Z Lat: 27.50555	1	Long: <u>-97.00299</u> 4	None	atum: 14/1000
Soil Map Unit Name: Beach				NWI clas	ssification: INOTIE	
Are climatic / hydrologic conditi						
Are Vegetation N , Soil N	, or Hydrology N	significantly distur	bed?	Are "Normal Circumstanc	es" present? Yes 🛂	No
Are Vegetation N, Soil N	, or Hydrology N	naturally problema	atic? (If needed, explain any ar	nswers in Remarks.)	
SUMMARY OF FINDING	S - Attach site m	ap showing sam	pling poi	nt locations, transe	ects, important	features, etc.
Hydrophytic Vegetation Prese	ent? Yes	No X No X No X	Is the Sam	nled Area		
Hydric Soil Present?	Yes	No X	within a We		_{No} X	
Wetland Hydrology Present?	Yes	No <u>X</u>				_
Remarks:						
The sampled area w				าd due to the abs	sence of domi	nant
hydrophytic vegetati	on, hydric soil, a	nd wetland hy	drology.			
LIVEROLOGY						
HYDROLOGY				Casandanili	- di - at / i - i	-f t
Wetland Hydrology Indicator Primary Indicators (minimum		all that apply)			ndicators (minimum o Soil Cracks (B6)	or two requirea)
Surface Water (A1)		atic Fauna (B13)			Vegetated Concave	Surface (B8)
High Water Table (A2)		l Deposits (B15) (LRF	s n)		e Patterns (B10)	, Surface (Bo)
Saturation (A3)		rogen Sulfide Odor (0	•		im Lines (B16)	
Water Marks (B1)		dized Rhizospheres a			son Water Table (C2	2)
Sediment Deposits (B2)	Pres	sence of Reduced Iro	n (C4)	Crayfish	Burrows (C8)	
Drift Deposits (B3)		ent Iron Reduction in	Tilled Soils (C6) 🔲 Saturatio	on Visible on Aerial I	magery (C9)
Algal Mat or Crust (B4)		Muck Surface (C7)		_	phic Position (D2)	
Iron Deposits (B5)		er (Explain in Remark	s)	=	Aquitard (D3)	
Inundation Visible on Aer Water-Stained Leaves (B				=	utral Test (D5) um moss (D8) (LRR	T 11)
Field Observations:	<u> </u>			Opriagin	an moss (Bo) (Entr	1, 0,
Surface Water Present?	Yes No X	Depth (inches):	_			
Water Table Present?	Yes No X	Depth (inches):				
Saturation Present?	Yes No X	Depth (inches):		Wetland Hydrology Pro	esent? Yes	No X
(includes capillary fringe) Describe Recorded Data (stre				ions) if available:		
Describe Necorded Data (site	am gauge, monitoring w	eli, aeriai priotos, pre	vious irispeci	ioris), ii available.		
Remarks:						
Wetland hydrology v	was not present					
vvctiana nyarology v	vas not present.					

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Demonstrat Demoissant Consists
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				(VB)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
·		= Total Cov		OBL species x 1 =
50% of total cover:				FACW species x 2 =
	20 % 01	total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =
1				UPL species x 5 =
2				Column Totals: (A) (B)
3				(1) (1)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:				Problematic Hydrophytic vegetation (Explain)
Herb Stratum (Plot size: 30' radius)	2070 01	total oover		1
1. Rayjacksonia phyllocephala	50	Υ	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Uniola paniculata	10	<u>N</u>	FACU	
	10	N	FACU	Definitions of Four Vegetation Strata:
3. Schizachyrium scoparium				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Paspalum monostachyum	10	N	FACW	more in diameter at breast height (DBH), regardless of
5. Spartina patens	10	N	FACW	height.
6. Chamaecrista fasciculata	5	<u>N</u>	FACU	Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
11.				Woody vine – All woody vines greater than 3.28 ft in height.
12.				noight.
12.	95	= Total Cov		
50% of total cover: 47.5				
	20% of	total cover	13	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	er	Vegetation
50% of total cover:	20% of	total cover		Present? Yes No X
Remarks: (If observed, list morphological adaptations belo				
	•	4		
Dominant hydrophytic vegetation was n	ot prese	ent.		

Sampling Point: UD11KNT_SJI

SOIL Sampling Point: UD11KNT_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of	indicators.)	
Depth	<u>Matrix</u>			ox Feature:					
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-20	10YR 7/2	100					Sand		
									_
	-								
¹Type: C=C	oncentration, D=De _l	 oletion_RM=R	educed Matrix M	S=Masked	Sand Gr	ains	² Location: PL	=Pore Lining, M=Ma	trix
	Indicators: (Applic					uiiio.		Problematic Hydric	
☐ Histosol			Polyvalue B			RRSTI		k (A9) (LRR O)	
_	oipedon (A2)		Thin Dark S				· —	k (A10) (LRR S)	
Black Hi			Loamy Mucl					Vertic (F18) (outside	MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gley	-			Piedmont	Floodplain Soils (F1	9) (LRR P, S, T)
Stratified	d Layers (A5)		Depleted Ma	atrix (F3)			<u> </u>	ıs Bright Loamy Soils	(F20)
	Bodies (A6) (LRR F		Redox Dark	Surface (F	⁻ 6)		☐ (MLRA	,	
	ıcky Mineral (A7) (L		Depleted Da					nt Material (TF2)	
	esence (A8) (LRR U	J)	Redox Depr	,	8)			low Dark Surface (Th	F12)
	ick (A9) (LRR P, T)	(044)	Marl (F10) (/MII DA 4	-4\	U Other (Ex	plain in Remarks)	
	d Below Dark Surfac ark Surface (A12)	æ (ATT)	Depleted Oc		•		T) ³ Indicato	ors of hydrophytic veg	etation and
	rairie Redox (A16) (MLRA 150A)	_					d hydrology must be	
	lucky Mineral (S1) (Delta Ochric			, •,		disturbed or problem	•
_	Gleyed Matrix (S4)		Reduced Ve			0A, 150B)			
	Redox (S5)		Piedmont FI						
Stripped	Matrix (S6)		Anomalous	Bright Loar	my Soils (F20) (MLR	RA 149A, 153C, 15	53D)	
	rface (S7) (LRR P,								
Restrictive	Layer (if observed)	:							
Type:									V
Depth (in	ches):						Hydric Soil Pre	esent? Yes	No X
Remarks:	,		•						
Н	ydric soil was	s not pres	ent.						

Project/Site: San Jose Island	City/County: A	ransas County	Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	, ,	State: TX	Sampling Point: UD12BPH_SJI
Investigator(s): BPH	Section Towns	hin Range N/A	
Landform (hillslope, terrace, etc.): Barrier island - undulating coastal prair	rie Local relief (cor	ncave, convex, none): Conv	ex Slope (%): 5-7
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27	7.887887	Long: -97.021808	Datum: NAD83
Soil Map Unit Name: Beaches		NWI class	sification: None
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X	No (If no, explain i	n Remarks.)
Are Vegetation N , Soil N , or Hydrology N signification			
Are Vegetation N, Soil N, or Hydrology N naturally	v problematic?	(If needed, explain any ans	
SUMMARY OF FINDINGS – Attach site map show			,
		•	,
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes No X	Is the S	ampled Area	V
Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes No X	— within a	Wetland? Yes	No X
Remarks:	<u> </u>		
Although dominant hydrophytic vegetation a	and hydric soi	I were present the s	sampled area was
determined to not be within a wetland due to	•	•	•
	, a.co		9).
HYDROLOGY			
Wetland Hydrology Indicators:		_	dicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that app			Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna And Barrasite (A2)			Vegetated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Hydrogen Sulfi			Patterns (B10) n Lines (B16)
	ospheres along Livin	-	on Water Table (C2)
	educed Iron (C4)	· · · · · · · · · · · · · · · · · · ·	Burrows (C8)
	eduction in Tilled Soi		n Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surf	face (C7)	Geomorp	hic Position (D2)
Iron Deposits (B5) Under (Explain	in Remarks)	=	Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)		=	tral Test (D5)
Water-Stained Leaves (B9)		<u>∐</u> Sphagnur	m moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No X Depth (inc	باد ما،		
Surface Water Present? Yes No Depth (inc Water Table Present? Yes NoX Depth (inc	ches):		
Saturation Present? Yes No X Depth (inc			sent? Yes No X
(includes capillary fringe)	,	_	sent: res NO
Describe Recorded Data (stream gauge, monitoring well, aerial p	hotos, previous insp	pections), if available:	
Remarks:			
Wetland hydrology was not present.			
Wettaria flyarology was not present.			

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Demonstrat Demoissant Consists
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				(VB)
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
·		= Total Cov		OBL species x 1 =
50% of total cover:				FACW species x 2 =
	20% 01	total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =
1				UPL species x 5 =
2				Column Totals: (A) (B)
3				(1) (1)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:				Problematic Hydrophytic vegetation (Explain)
Herb Stratum (Plot size: 30'X30')	20,00.	10141 00101		1
1. Iva frutescens	50	Υ	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Fimbristylis castanea	20	<u>Y</u>	OBL	
	10	N	FACW	Definitions of Four Vegetation Strata:
3. Paspalum monostachyum				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Eragrostis secundiflora	10	N	UPL	more in diameter at breast height (DBH), regardless of
5. Uniola paniculata	4	N	FACU	height.
6. Linum medium	1	<u>N</u>	FAC	Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
11.				Woody vine – All woody vines greater than 3.28 ft in height.
12.				noight.
12.	95	= Total Cov		
50% of total cover: 47.5				
	20% of	total cover		
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes X No
Remarks: (If observed, list morphological adaptations belo				
	•			
Dominant hydrophytic vegetation was p	resent.			

Sampling Point: UD12BPH_SJI

SOIL Sampling Point: UD12BPH_SJI

	-	to the dep				or confir	m the absence of in	dicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	es Type ¹	_Loc²	Texture	Remarks	
0-4	10YR 6/2	100	<u> Color (molec)</u>				Loamy sand	Romano	_
4-18	10YR 6/2	98	10YR 4/6	2	C	<u> </u>	Loamy sand		
110	10111 0/2		10111110						
	-				_		·		
						-			
			-	<u> </u>			<u> </u>		
				-	_		<u> </u>		
¹ Type: C=C	oncentration, D=De	oletion, RM	=Reduced Matrix, M	S=Maske	d Sand G	rains.	² Location: PL=	Pore Lining, M=Matr	ix.
Hydric Soil	Indicators: (Applie	cable to all	LRRs, unless othe	rwise no	ted.)		Indicators for F	Problematic Hydric	Soils³:
Histoso			Polyvalue Be				· —	(A9) (LRR O)	
_	pipedon (A2)		Thin Dark Su	-				(A10) (LRR S) ertic (F18) (outside I	MI DA 150A D\
_	istic (A3) en Sulfide (A4)		Loamy Muck	-		K ()		loodplain Soils (F19)	
	d Layers (A5)		Depleted Ma		(. –)			Bright Loamy Soils (
	Bodies (A6) (LRR F		Redox Dark	Surface (F6)		(MLRA 1		
	ucky Mineral (A7) (L		_		` '			Material (TF2)	0)
	resence (A8) (LRR l uck (A9) (LRR P, T)		Redox Depre		-8)		— '	w Dark Surface (TF1 ain in Remarks)	2)
	d Below Dark Surfac		Depleted Oc	•	(MLRA 1	l 51)	Other (Expr	alli ili Nelliaiks)	
_	ark Surface (A12)	,	☐ Iron-Mangan		•	•	, T) ³ Indicators	of hydrophytic vege	tation and
	rairie Redox (A16) (· —					hydrology must be p	
	Mucky Mineral (S1) (LRR O, S)	Delta Ochric					isturbed or problema	itic.
_	Gleyed Matrix (S4) Redox (S5)		Reduced Ve						
_	d Matrix (S6)						-137.) RA 149A, 153С, 153	D)	
Dark Su	ırface (S7) (LRR P,					` , ,	, ,	,	
Restrictive	Layer (if observed)	:							
Type:								Y	
Depth (in	ches):						Hydric Soil Pres	sent? Yes X	No
Remarks:	lydric soil was	nreser	nt						
'	iyano oon wac	prosci	14.						

Project/Site: San Jose Isla	and	Citv/C	_{ounty:} Aransas Co	unty	Sampling Date:	10/18/2021
Applicant/Owner: Port of Co	orpus Christi Autho	ority		State: TX	Sampling Point:	UD12KNT_SJI
Investigator(s): CSK, KNT Landform (hillslope, terrace, etc Subregion (LRR or MLRA): LF Soil Map Unit Name: Beach		Sectio	n. Township. Range:	I/A		
Landform (hillslope, terrace, etc.	 _{ລ.):} Barrier island - ເ	julf beach Local	relief (concave. convex.	_{none):} None	Slot	_{pe (%):} 0-1
Subregion (LRR or MLRA): LF	RR T / MLRA 150B	3 Lat. 27.90522	2 Long: -	97.006115	Da	atum: NAD83
Soil Man Unit Name: Beach	 es	_ Lat	Long	NIMI alassifi	antion: M2USF)
Are climatic / hydrologic conditi						
						, NI=
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$, or Hydrology _\tau	significantly disturb	oed? Are "Norma			No
				explain any answ		
SUMMARY OF FINDING	S – Attach site ma	p showing sam	pling point location	ons, transects	s, important fo	eatures, etc.
Hvdrophytic Vegetation Prese	ent? Yes X	No	In the Committee of Asses			
Hydric Soil Present?	Yes	No X	Is the Sampled Area within a Wetland?	Vac	No X	
Hydrophytic Vegetation Prese Hydric Soil Present? Wetland Hydrology Present?	Yes X	No	within a wetland?	res	NO <u>^ </u>	_
Remarks:						
Although dominant h	nydrophytic veget	tation and wet	land hydrology v	were preser	it, the sampl	led area
was determined to n	ot be within a we	tland due to th	ne absence of h	ydric soil.		
HYDROLOGY						
Wetland Hydrology Indicato				Secondary Indic	ators (minimum of	f two required)
Primary Indicators (minimum		all that apply)			l Cracks (B6)	two required)
Surface Water (A1)	· —	atic Fauna (B13)			egetated Concave	Surface (B8)
High Water Table (A2)		Deposits (B15) (LRR	: U)		atterns (B10)	Surface (Bo)
Saturation (A3)		ogen Sulfide Odor (C	•	Moss Trim L		
Water Marks (B1)		- '	ong Living Roots (C3)		Water Table (C2))
Sediment Deposits (B2)		ence of Reduced Iror		Crayfish Bu		
Drift Deposits (B3)		ent Iron Reduction in			/isible on Aerial I m	nagery (C9)
Algal Mat or Crust (B4)	Thin	Muck Surface (C7)		☑ Geomorphic	Position (D2)	
Iron Deposits (B5)	<u> </u>	r (Explain in Remark	s)	Shallow Aqu	uitard (D3)	
Inundation Visible on Aer	ial I magery (B7)			FAC-Neutra	l Test (D5)	
Water-Stained Leaves (B	9)			Sphagnum	moss (D8) (LRR T	ſ, U)
Field Observations:	Y					
Surface Water Present?	Yes No X					
Water Table Present?	Yes No X	Depth (inches):			Y	
Saturation Present? (includes capillary fringe)	Yes No X	Depth (inches):	Wetland I	Hydrology Prese	nt? Yes <u>^</u>	No
Describe Recorded Data (stre	am gauge, monitoring we	ell, aerial photos, prev	vious inspections), if ava	ailable:		
Remarks:						
Wetland hydrology v	vas present.					

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 4 (A)
2				Total Number of Dominant
3				Species Across All Strata: 4 (B)
4				Descent of Descinant Charica
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		= Total Co		OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 =
				FACU species x 4 =
1				UPL species x 5 =
2				Column Totals: (A) (B)
3				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	:	
Herb Stratum (Plot size: 30' radius)				¹ Indicators of hydric soil and wetland hydrology must
1. Sesuvium portulacastrum	3	Υ	FACW	be present, unless disturbed or problematic.
2. Ipomoea pes-caprae	2	Υ	FAC	Definitions of Four Vegetation Strata:
3. Sporobolus virginicus	2	Y	FACW	
4. Spartina patens	2	Υ	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.				height.
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				and on BBH and greater than older to (1 m) tam
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
	9	= Total Co	ver	
50% of total cover:	20% of	total cove	:	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Co		Vegetation
50% of total cover:				Present? Yes X No
Remarks: (If observed, list morphological adaptations bel				<u> </u>
	•			
Dominant hydrophytic vegetation was p	oresent.			

Sampling Point: UD12KNT_SJI

SOIL Sampling Point: UD12KNT_SJI

ix. Soils³: MLRA 150A) (LRR P, S,
Soils ³ : MLRA 150A) (LRR P, S,
Soils ³ : MLRA 150A) (LRR P, S,
Soils ³ : MLRA 150A) (LRR P, S,
Soils ³ : MLRA 150A) (LRR P, S,
Soils ³ : MLRA 150A) (LRR P, S,
Soils ³ : MLRA 150A) (LRR P, S,
Soils ³ : MLRA 150A) (LRR P, S,
Soils ³ : MLRA 150A) (LRR P, S,
Soils ³ : MLRA 150A) (LRR P, S,
Soils ³ : MLRA 150A) (LRR P, S,
MLRA 150A,
(LRR P, S,
(LRR P, S,
(LRR P, S,
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tation and
resent,
atic.
No X

Project/Site: San Jose Island City/C	ounty: Aransas County Sampling Date: 10/20/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD13BPH_SJI
	on, Township, Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - minor hillslope Local	relief (concave, convey, none): Convex
Subregion / IRR or MI RAN, LRR T / MLRA 150B Let. 27.88872	4 Languary -97.023495 Solphe (1/8) NAD83
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.88872 Soil Map Unit Name: Beaches	LongBalumBalumBalum.
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N , Soil N , or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	
Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes No X
Hydrophytic Vegetation Present? Yes	within a Wetland? TesNo
Remarks:	
The sampled area was determined to not be within	a wetland due to the absence of dominant
hydrophytic vegetation, hydric soil, and wetland hy	drology.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13) Mad Banasite (B15) (B15)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Hydrogen Sulfide Odor (C	
Water Marks (B1) Saturation (AS) Water Marks (B1) Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Iron	
Drift Deposits (B3)	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	s) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	☐ Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was not present.	

	ames of pl	lants.		Sampling Point: UD13BPH_S
		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2.				Total Number of Demain and
3				Total Number of Dominant Species Across All Strata: 2 (B)
l		-		
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B
5.				That Are OBL, I ACW, OI I AC.
7.				Prevalence Index worksheet:
3				Total % Cover of: Multiply by:
·		= Total Cov	/or	OBL species $\frac{2}{x+1} = \frac{2}{x+1}$
50% of total cover:				FACW species <u>5</u> x 2 = <u>10</u>
	20% 01	i total cover	•	FAC species 6 x 3 = 18
Sapling/Shrub Stratum (Plot size:)				FACU species 70 x 4 = 280
·				UPL species 17 x 5 = 85
2		-	-	Column Totals: 100 (A) 395 (B)
3				(1)
ł				Prevalence Index = B/A = 3.95
5				Hydrophytic Vegetation Indicators:
S				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
3				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	f total cover	:	
Herb Stratum (Plot size: 30'X30')				¹ Indicators of hydric soil and wetland hydrology must
1. Schizachyrium scoparium	50	Υ	FACU	be present, unless disturbed or problematic.
Uniola paniculata	20	Y	FACU	Definitions of Four Vegetation Strata:
Heterotheca subaxillaris	15	N	UPL	
Muhlenbergia capillaris	5	\overline{N}	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o more in diameter at breast height (DBH), regardless of
5. Paspalum monostachyum	5	N	FACW	height.
3. Fimbristylis castanea	2	N	OBL	
Physalis cinerascens	2	N	UPL	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3. Conoclinium coelestinum	- -	<u>N</u>	FAC	than 5 m. BBH and groater than 5.25 h (1 m) tail.
o.	- '		<u> </u>	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12.				, s
	100	= Total Cov	/er	
50% of total cover: 50	20% of			
Noody Vine Stratum (Plot size:)	20 /0 01	total cover		
/voody vine Stratum (i lot size)				
1				
2				
1				
2				
2				Hydrophytic
2		= Total Cov	 /er	Vegetation
2		= Total Cov	 /er	

SOIL Sampling Point: UD13BPH_SJI

	ription: (Describe Matrix		Redo	x Features	3				
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-18	10YR 6/2	100					Loamy sand		
	-								
		nlotion DM=D	adveced Metrix M	C=Maakad	Cand Cr		2l continue DI	=Pore Lining, M=Ma	tuis.
	oncentration, D=Dep Indicators: (Applic					airis.		· Problematic Hydric	
Histosol		cable to all Li	Polyvalue B			DDCTI		k (A9) (LRR O)	cons.
	oipedon (A2)		Thin Dark S				· —	k (A3) (LRR S)	
Black His			Loamy Muck					Vertic (F18) (outside	MLRA 150A.I
	n Sulfide (A4)		Loamy Gley	•	, .	-,		Floodplain Soils (F1	
	d Layers (A5)		Depleted Ma		,			ıs Bright Loamy Soils	
	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	6)		(MLRA		,
5 cm Mu	icky Mineral (A7) (L	RR P, T, U)	Depleted Da	ırk Surface	(F7)		Red Parer	nt Material (TF2)	
	esence (A8) (LRR l		Redox Depr	•	3)			low Dark Surface (TF	- 12)
_	ick (A9) (LRR P, T)			•			U Other (Ex	plain in Remarks)	
=	d Below Dark Surfac	ce (A11)	Depleted Oc						
=	ark Surface (A12)	MI DA 450A)	Iron-Mangar					rs of hydrophytic veg	
	rairie Redox (A16) (lucky Mineral (S1) (Umbric Surfa			, U)		d hydrology must be disturbed or problem	
_	iucky Militeral (S1) (Bleyed Matrix (S4)	LKK (J, 5)	Delta Ochric			0A 150B)		disturbed or problem	iauc.
	ledox (S5)		Piedmont Fl						
_	Matrix (S6)						A 149A, 153C, 15	3D)	
	rface (S7) (LRR P, \$	S, T, U)		3	,	/ (· , · · · · , ·	,	
	_ayer (if observed)								
Type:									
Depth (inc	ches):						Hydric Soil Pre	esent? Yes	No X
Remarks:							1 -	<u> </u>	
H	ydric soil was	s not pres	ent.						

Project/Site: San Jose Island	City/County: Aransas Co	unty	Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority		State: TX	Sampling Point: UD13KNT_SJI
• •	Section, Township, Range:		
Landform (hillslope, terrace, etc.): Barrier island - top of primary sand dune	Local relief (concave, convey	none). Convex	Slone (%). 0-10
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.9	05564	-97.006517	Slope (%)
Soil Map Unit Name: Beaches		NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of ye			
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ significantly Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ naturally properties of the second seco			
		explain any answers	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locati	ons, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area		
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X	within a Wetland?	Yes	_{No} X
Wetland Hydrology Present? Yes No X	within a Wetland.		
Remarks:			
The sampled area was determined to not be w	rithin a wetland due	to the absenc	e of dominant
hydrophytic vegetation, hydric soil, and wetlan	d hydrology.		
LIVERGLOOV			
HYDROLOGY		Canadam, Indian	(ini
Wetland Hydrology Indicators:		_	ors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	2)	Surface Soil C	, ,
Surface Water (A1) Aquatic Fauna (B1) Mad Deposits (B4)	· ·		etated Concave Surface (B8)
High Water Table (A2) Augustion (A2) High Water Table (A2) High Water Table (A2) High Water Table (A2)	• •	Drainage Patt	·
Saturation (A3) Hydrogen Sulfide (, ,	Moss Trim Lin	
	eres along Living Roots (C3)	Crayfish Burro	Vater Table (C2)
	tion in Tilled Soils (C6)	= '	ible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	· ·	Geomorphic F	
Iron Deposits (B5) Other (Explain in F	, ,	Shallow Aquita	
Inundation Visible on Aerial Imagery (B7)	lemarks)	FAC-Neutral T	,
Water-Stained Leaves (B9)		=	oss (D8) (LRR T, U)
Field Observations:		opinagriam inc	555 (25) (2 1111 1, 5)
Surface Water Present? Yes No X Depth (inches):		
Water Table Present? Yes No X Depth (inches			
Saturation Present? Yes No X Depth (inches		Hydrology Present	? Yes No_X
(includes capillary fringe)		-9-61	
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if av	allable:	
Remarks:			1
Wetland hydrology was not present.			

Tree Stratum (Plot size:	Cover	Total Cov	Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: O (A/B Prevalence Index worksheet:
50% of total cover:		= Total Cov		That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
50% of total cover:		Total Cov		Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B
50% of total cover:		Total Cov		Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B
50% of total cover: apling/Shrub Stratum (Plot size:)		Total Cov		Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B
50% of total cover: apling/Shrub Stratum (Plot size:)		Total Cov		That Are OBL, FACW, or FAC: 0 (A/B
50% of total cover: apling/Shrub Stratum (Plot size:)		Total Cov		
50% of total cover: apling/Shrub Stratum (Plot size:)		Total Cov		Prevalence Index worksheet:
50% of total cover: apling/Shrub Stratum (Plot size:) 	=	 = Total Cov		
50% of total cover: apling/Shrub Stratum (Plot size:)	=	= Total Cov		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:)	20% of		er	OBL species $0 \times 1 = 0$
apling/Shrub Stratum (Plot size:)		total cover:		FACW species $\frac{5}{2}$ $\times 2 = \frac{10}{2}$
				FAC species $0 \times 3 = 0$
·				FACU species 50 $\times 4 = 200$
				UPL species <u>22</u> x 5 = <u>110</u>
				Column Totals: <u>77</u> (A) <u>320</u> (B)
				Dravalance Index = D/A = 4.2
				Prevalence Index = B/A = 4.2
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
		= Total Cov		3 - Prevalence Index is ≤3.0 ¹
				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:erb Stratum (Plot size: 30' radius)	20% 01	total cover.		
Chamaecrista fasciculata	1	Υ	FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Uniola paniculata 20		Y	FACU	
Physalis cinerascens 10		N	UPL	Definitions of Four Vegetation Strata:
Verbena bonariensis 10		N	UPL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
Paspalum monostachyum 5		N	FACW	more in diameter at breast height (DBH), regardless of height.
		N	UPL	neight.
Dalea leporina 2			UPL	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
·				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
0				
1				Woody vine – All woody vines greater than 3.28 ft in height.
2				noight.
	7 -	 = Total Cov		
50% of total cover: 38.5				
/oody Vine Stratum (Plot size:)	20 /0 01	total cover.		
•				
•				
•				
·				Hydrophytic Vegetation
		= Total Cov		Present? Yes No X
50% of total cover:	20% 01	total cover.		
Remarks: (If observed, list morphological adaptations below).				
Dominant hydrophytic vegetation was not	prese	ent.		

SOIL Sampling Point: UD13KNT_SJI

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iis :
RA 150A,
.RR P, S,
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ion and
sent,
-
_{No} X

Project/Site: San Jose Island	City/County: Arai	nsas County	Sampling Date: 10/20/2021
Applicant/Owner: Port of Corpus Christi Authority	- , ,	State: TX	Sampling Point: UD14BPH_SJI
Investigator(s): BPH	Section, Township	, Range: N/A	
Investigator(s): BPH Landform (hillslope, terrace, etc.): Barrier island - mima mound	Local relief (conca	ve, convex, none): Convex	Slope (%): 2-3
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.8	388728 `	Long: -97.023594	Datum: NAD83
Soil Map Unit Name: Beaches		NWI classific	ation: E2USP
Are climatic / hydrologic conditions on the site typical for this time of y	year? Yes X N	No (If no, explain in Re	emarks.)
Are Vegetation \underline{N} , Soil \underline{N} , or Hydrology \underline{N} significantle	ly disturbed?	Are "Normal Circumstances" p	resent? Yes X No
Are Vegetation \overline{N} , Soil \overline{N} , or Hydrology \overline{N} naturally p	roblematic? (If needed, explain any answei	
SUMMARY OF FINDINGS – Attach site map showin		nt locations, transects	, important features, etc.
Hudenbutte Vandation Breast			
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X	Is the Sam		V
Wetland Hydrology Present? Yes No X	within a We	etland? Yes	No X
Remarks:	-		
The sampled area was determined to not be v	within a wetlar	nd due to the absend	ce of dominant
hydrophytic vegetation, hydric soil, and wetlar		ia ado to trio abcorn	or dominant
Try dropriy no vogotation, rry drie con, and would	ia riyarology.		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil	Cracks (B6)
Surface Water (A1)	•		getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1		<u></u> Drainage Pat	· · ·
Saturation (A3) Hydrogen Sulfide	, ,	☐ Moss Trim Li	, ,
	heres along Living R		Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3) Presence of Redu Recent Iron Redu	ucea fron (C4) uction in Tilled Soils (☐ Crayfish Burr	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface		Geomorphic	=
Iron Deposits (B5) Other (Explain in	, ,	Shallow Aqui	` '
Inundation Visible on Aerial Imagery (B7)	, ,	FAC-Neutral	, ,
Water-Stained Leaves (B9)		Sphagnum m	noss (D8) (LRR T, U)
Field Observations:			
	es):		
Water Table Present? Yes No X Depth (inche			
Saturation Present? Yes No X Depth (inche	;s):	Wetland Hydrology Presen	t? Yes No X
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspect	tions), if available:	
, , , , , , , , , , , , , , , , , , , ,			
Remarks:	-		
Wetland hydrology was not present.			

EGETATION (Four Strata) – Use scientific na	ames of pl	ants.		Sampling Point: UD14BPH_S
		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
l				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
3				
7.				Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
		= Total Cov	/er	OBL species $0 \times 1 = 0$
50% of total cover:				FACW species 13 x 2 = 26
Sapling/Shrub Stratum (Plot size:)	20 70 01	10101 00101		FAC species $5 \times 3 = 15$
				FACU species 30 x 4 = 120
l				UPL species <u>52</u> x 5 = <u>200</u>
2.				Column Totals: 100 (A) 361 (B)
3				
l				Prevalence Index = B/A = 3.61
5				Hydrophytic Vegetation Indicators:
S				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
3				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov	/er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 30'x30')				¹ Indicators of hydric soil and wetland hydrology must
1. Heterotheca subaxillaris	40	Υ	UPL	be present, unless disturbed or problematic.
2. Schizachyrium scoparium	20	Υ	FACU	Definitions of Four Vegetation Strata:
3. Paspalum monostachyum	13	N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
_{1.} Physalis cinerascens	10	N	UPL	more in diameter at breast height (DBH), regardless of
5. Uniola paniculata	10	N	FACU	height.
Muhlenbergia capillaris	5	N	FAC	Sapling/Shrub – Woody plants, excluding vines, less
Gaillardia pulchella	2	N	UPL	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3.				
).				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	100			
50		= Total Cov		
	20% of	total cover	: 20	
Noody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	/er	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes No X
Remarks: (If observed, list morphological adaptations bel	low).			
Dominant hydrophytic vegetation was r	•	ent.		

SOIL Sampling Point: UD14BPH_SJI

	Matrix		Redo	ox Feature	S		n the absence o			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-18	10YR 7/2	100					Sand			
	oncentration D=De	alation DM=D	advesd Metrix M				2l continu	PL=Pore Linin	- N-Matri	
	oncentration, D=De Indicators: (Applie					ams.		or Problemat		
Histosol		Jabic to all Li	Polyvalue B			DDCTI		ick (A9) (LRR	•	JOII3 .
	pipedon (A2)		Thin Dark S				· —	ick (A9) (LKR ick (A10) (LR	•	
=	istic (A3)		Loamy Mucl					d Vertic (F18)		/ILRA 150A.E
	en Sulfide (A4)		Loamy Gley	-	. , .	- ,		nt Floodplain	•	
	d Layers (A5)		Depleted Ma		,			ous Bright Loa		•
Organio	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	⁻ 6)		(MLR/	A 153B)		
	ucky Mineral (A7) (L		Depleted Da	ark Surface	(F7)			ent Material (
	resence (A8) (LRR I		Redox Depr	•	8)			allow Dark Sເ	•	2)
_	uck (A9) (LRR P, T)		☐ Marl (F10) (I	-			U Other (E	xplain in Ren	narks)	
= '	d Below Dark Surfac	ce (A11)	Depleted Od		•	•	T \ 311:			-4:
	ark Surface (A12) 'rairie Redox (A16) (MI DA 150A\	☐ Iron-Mangar☐ Umbric Surf					tors of hydrop and hydrology		
	Mucky Mineral (S1) (Delta Ochric			, 0)		s disturbed o		
	Gleyed Matrix (S4)	Little O, O)	Reduced Ve			OA. 150B)		os disturbed o	л рговістіа	
_	Redox (S5)		☐ Piedmont FI							
_	d Matrix (S6)						RA 149A, 153C, [.]	153D)		
ີ Dark Sເ	ırface (S7) (LRR P,	S, T, U)								
Restrictive	Layer (if observed)):								
Type:			_							
. , , ,							Hydric Soil P	resent? Y	'es	No <u>X</u>
Depth (in	ches):						,	resent. I		
Depth (in	·						ilyunio com i	1000111. 1		
Depth (in	ches): lydric soil was	s not pres	ent.				IIyuno com	TOSCIII. I		
Depth (in	·	s not pres	ent.				- Tyuno com	TOOCHE. I		
Depth (in	·	s not pres	ent.				Tiyano com	TOOLIK. 1		
Depth (in	·	s not pres	ent.				1,90.000	TOGUIL.		
Depth (in	·	s not pres	ent.				11,410 0011	1000m: 1		
Depth (in	·	s not pres	ent.				11,410 0011			
Depth (in	·	s not pres	ent.				11,500	<u> </u>		
Depth (in	·	s not pres	ent.				11,500	i i i i i i i i i i i i i i i i i i i		
Depth (in	·	s not pres	ent.				11,41.0 00111	<u> </u>		
Depth (in	·	s not pres	ent.				11,5000			
Depth (in	·	s not pres	ent.				11,5000	TOOL TOOL TOOL TOOL TOOL TOOL TOOL TOOL		
Depth (in	·	s not pres	ent.				1,90.000			
Depth (in	·	s not pres	ent.				1,90.000			
Depth (in	·	s not pres	ent.				1,900000			
Depth (in	·	s not pres	ent.				11,000			
Depth (in	·	s not pres	ent.				1,4,5,5,5,1			
Depth (in	·	s not pres	ent.				1,40000			
Depth (in	·	s not pres	ent.				1,900000			
Depth (in	·	s not pres	ent.				1,900000			
Depth (in	·	s not pres	ent.				1,5000			
Depth (in	·	s not pres	ent.				1,5000			
Depth (in	·	s not pres	ent.				1,900000			

Project/Site: San Jose Island City/C	ounty: Aransas County	Sampling Date: 10/20/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX	
Investigator(s): BPH Scotia	n Taunahia Bangai N/A	
Landform (hillslope, terrace, etc.): Barrier island - gulf beach Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.88241 Soil Map Unit Name: Not mapped	relief (concave, convex, none). None	Slone (%). 0-1
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.88241	0 Lang: -97.023345	Datum: NAD83
Sail Man Unit Name: Not mapped	Long.	tion: M2USP
Are climatic / hydrologic conditions on the site typical for this time of year? Y	NVVI classifica	uon: <u>z</u>
Are Vegetation N, Soil N, or Hydrology N, significantly disturb	bed? Are "Normal Circumstances" pro	
Are Vegetation N , Soil N , or Hydrology N naturally problems	atic? (If needed, explain any answers	in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes	lo the Compled Avec	
Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes	No X
Wetland Hydrology Present? Yes X No	within a wetland:	
Remarks:		
Although dominant hydrophytic vegetation and wet		the sampled area
was determined to not be within a wetland due to t	ne absence of hydric soil.	
LIVEROLOGY		
HYDROLOGY	Casandamiladiad	(ii
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary indicate Surface Soil C	ors (minimum of two required)
Surface Water (A1) Surface Water (A1) Aquatic Fauna (B13)	——————————————————————————————————————	etated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRF	- ' '	` ,
Saturation (A3) Hydrogen Sulfide Odor (C	· —	·
Water Marks (B1) Oxidized Rhizospheres a	_	/ater Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron	n (C4) $\ \ \ \ \ \ \ \ \ \ \ \ $ Crayfish Burro	ows (C8)
Drift Deposits (B3)	Tilled Soils (C6) Saturation Vis	ible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic P	` '
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	_	
☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9)	FAC-Neutral T	est (D5) oss (D8) (LRR T, U)
Field Observations:	Spriagrium mo	755 (DO) (LKK 1, U)
Surface Water Present? Yes No X Depth (inches):		
Water Table Present? Yes No X Depth (inches):		
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present	? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:	
Remarks:		
Wetland hydrology was present.		
Wettaria riyarology was present.		

Absolute	Dominant				
V/ COVOR	Species?		Dominance Test worksheet:		
	<u>Species?</u>		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)		
			Total Number of Dominant		
			Species Across All Strata: 2 (B)		
			Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B		
			,		
			Prevalence Index worksheet:		
			Total % Cover of: Multiply by:		
			OBL species x 1 =		
20% of	total cover:		FACW species x 2 =		
			FAC species x 3 =		
			FACU species x 4 =		
			UPL species x 5 =		
			Column Totals: (A) (B)		
			Prevalence Index = B/A =		
			Hydrophytic Vegetation Indicators:		
			1 - Rapid Test for Hydrophytic Vegetation		
			X 2 - Dominance Test is >50%		
			3 - Prevalence Index is ≤3.0¹		
		er	9 - Prevalence index is \$3.00 Problematic Hydrophytic Vegetation ¹ (Explain)		
20% of	total cover:		1 Toblematic Hydrophytic Vegetation (Explain)		
_			¹ Indicators of hydric soil and wetland hydrology must		
20	Υ	FACW	be present, unless disturbed or problematic.		
6	Y	FAC	Definitions of Four Vegetation Strata:		
3	N	FAC			
1	N	OBL	 Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless 		
			height.		
			Sapling/Shrub – Woody plants, excluding vines, less		
			than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
			Herb – All herbaceous (non-woody) plants, regardless		
			of size, and woody plants less than 3.28 ft tall.		
			Woody vine – All woody vines greater than 3.28 ft in height.		
30	Total Cov	er			
			Hadaaahadia		
	= Total Cov	er	Hydrophytic Vegetation		
	total cover:		Present? Yes X No		
	20% of	= Total Cov 20% of total cover: = Total Cov 20% of total cover: = Total Cov 20% of total cover: 3	= Total Cover _ 20% of total cover: = Total Cover _ 20% of total cover: 20		

SOIL Sampling Point: UD15BPH_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	indicator	or confirm	n the absence of	indicators.)	
Depth	Matrix			ox Feature		. 2		_	
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture _	Remai	<u>rks</u>
0-18	10YR 6/2	100					Sand		
				_					
	-								
1Typo: C=C	oncentration, D=De _l	olotion DM-D	Poducod Matrix M		Sand Gr	oine	² Location: D	L=Pore Lining, M=N	Matrix
	Indicators: (Applic					airio.		or Problematic Hyd	
Histosol		, , , , , , , , , , , , , , , , , , ,	Polyvalue B			DD S T I		ck (A9) (LRR O)	
_	oipedon (A2)		Thin Dark S				· —	ck (A3) (LRR S)	
Black Hi			Loamy Mucl						ide MLRA 150A,B)
I =	en Sulfide (A4)		Loamy Gley	-		. •,		it Floodplain Soils (I	
	d Layers (A5)		Depleted Ma		/			ous Bright Loamy So	
	Bodies (A6) (LRR F	P, T, U)	Redox Dark		- 6)			(153B)	,
	ıcky Mineral (A7) (L		Depleted Da	ark Surface	(F7)		Red Pare	ent Material (TF2)	
Muck Pr	esence (A8) (LRR I	J)	Redox Depr	essions (F	8)		<u></u> Very Sha	allow Dark Surface	(TF12)
<u>Π</u> 1 cm Μι	ıck (A9) (LRR P, T)		Marl (F10) (LRR U)			U Other (E	xplain in Remarks)	
	d Below Dark Surfac	ce (A11)	Depleted Od		•	-	2		
_	ark Surface (A12)		☐ Iron-Mangar					ors of hydrophytic v	-
	rairie Redox (A16) (_			', U)		nd hydrology must l	
_	Mucky Mineral (S1) (LRR O, S)	Delta Ochrid			OA 450D)		s disturbed or probl	ematic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5) Matrix (S6)		Piedmont FI	-	, ,		ıяд) RA 149A, 153C, 1	E2D)	
_	rface (S7) (LRR P, :	S T III	Anomalous	Brigiil Luai	illy Solis (F20) (WILK	A 149A, 155C, 1	330)	
	Layer (if observed)								
Type:									
, , <u> </u>	ches):						Hydric Soil P	resent? Yes	X
Remarks:							Tiyano con T		
H	ydric soil was	not pres	ent.						
	,	Į.							

Project/Site: San Jose Island	City/County: Aransa	is County	Sampling Date: 10/20/2021
Applicant/Owner: Port of Corpus Christi Authority		State: TX	Sampling Point: UD16BPH_SJI
Investigator(s): BPH Landform (hillslope, terrace, etc.): Barrier island - beach dune	Section, Township, Ra	nge: N/A	
Landform (hillslope, terrace, etc.); Barrier island - beach dune	Local relief (concave. c	convex. none): Convex	Slope (%): 10-12
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.88	32775	Long: -97.024067	Datum: NAD83
Soil Map Unit Name: Beaches		NWI classifica	ation: None
Are climatic / hydrologic conditions on the site typical for this time of ye			
Are Vegetation N , Soil N , or Hydrology N significantly			
Are Vegetation N, Soil N, or Hydrology N naturally pro	hlematic? (If ne	eeded, explain any answer	
SUMMARY OF FINDINGS – Attach site map showing			,
			•
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X	Is the Sampled		
Hydric Soil Present? Wetland Hydrology Present? Yes No X No X	within a Wetlan	nd? Yes	No X
Remarks:			
The sampled area was determined to not be w	ithin a wetland	due to the absenc	ce of dominant
hydrophytic vegetation, hydric soil, and wetland			or dominant
l and togetation, my and com, and trouding	, a. o.o.gy.		
HYDROLOGY			
Wetland Hydrology Indicators:			tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)			
Surface Water (A1) Aquatic Fauna (B1) Mad Barrasite (B45)	•		etated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Hydrogen Sulfide C	• •	☐ Drainage Patt☐ Moss Trim Lir	· · · · ·
	eres along Living Roots		Water Table (C2)
Sediment Deposits (B2) Sediment Deposits (B2) Presence of Reduc		Crayfish Burro	i i
	tion in Tilled Soils (C6)	= '	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface		Geomorphic F	=
☐ Iron Deposits (B5) ☐ Other (Explain in R	emarks)	Shallow Aquit	tard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)		Sphagnum m	oss (D8) (LRR T, U)
Field Observations:			
):		
Water Table Present? Yes No X Depth (inches)			Y
Saturation Present? Yes No X Depth (inches) (includes capillary fringe)	ı: We	etland Hydrology Present	t? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections	s), if available:	
Domeston			
Remarks:			
Wetland hydrology was not present.			
1			

= Total (Cover //er:	Dominance Test worksheet: Number of Dominant Species 1 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 30 x 3 = 180 FACU species 20 x 4 = 80 UPL species 50 x 5 = 250 Column Totals: 100 (A) 510 (B) Prevalence Index = B/A = 5.1 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
= Total (Cover	That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B Prevalence Index worksheet: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 30 x 3 = 180 FACU species 20 x 4 = 80 UPL species 50 x 5 = 250 Column Totals: 100 (A) 510 (B) Prevalence Index = B/A = 5.1 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total (Cover	Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B Prevalence Index worksheet:
= Total (of total cov	Cover	Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B Prevalence Index worksheet:
= Total (Cover	That Are OBL, FACW, or FAC: 33 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 $x = 0$ FACW species 0 $x = 0$ FAC species 0 $x = 0$ FACU species 0 $x = 0$ Column Totals: 0 0 0 0 0 0 0 0 0 0
= Total (Cover	That Are OBL, FACW, or FAC: 33 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 $x = 0$ FACW species 0 $x = 0$ FAC species 0 $x = 0$ FACU species 0 $x = 0$ Column Totals: 0 0 0 0 0 0 0 0 0 0
= Total (Cover	Prevalence Index worksheet:Total % Cover of:Multiply by:OBL species 0 $x 1 = 0$ FACW species 0 $x 2 = 0$ FAC species 30 $x 3 = 180$ FACU species 20 $x 4 = 80$ UPL species 50 $x 5 = 250$ Column Totals: 100 (A)Prevalence Index = B/A = $\frac{5.1}{100}$ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total (of total cov	Cover /er:	
= Total (if total cov	Cover //er:	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
= Total (/er:	FACW species 0 $x 2 = 0$ FAC species 30 $x 3 = 180$ FACU species 20 $x 4 = 80$ UPL species 50 $x 5 = 250$ Column Totals: 100 (A) 510 (B) Prevalence Index = B/A = 5.1 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total (FAC species 30
= Total (FACU species $\frac{20}{50}$ $x = 4 = \frac{80}{250}$ UPL species $\frac{50}{100}$ $x = 5 = \frac{250}{510}$ Column Totals: $\frac{100}{100}$
= Total (UPL species 50 $x = 250$ Column Totals: 100 $x = 100$ $x = 10$
= Total (Column Totals: 100 (A) 510 (B) Prevalence Index = B/A = 5.1 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total (Prevalence Index = B/A = 5.1 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total (Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
= Total (Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
		1 - Rapid Test for Hydrophytic Vegetation
= Total (
= Total 0		2 - Dominance Test is >50%
-		
-	over	3 - Prevalence Index is ≤3.0¹
		Problematic Hydrophytic Vegetation ¹ (Explain)
. 10101 00		1
Υ	UPL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
. <u> </u>		
. <u> </u>		Definitions of Four Vegetation Strata:
		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
		more in diameter at breast height (DBH), regardless of height.
•		
·		Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
-		than 3 in. DDH and greater than 3.20 it (1 iii) tall.
		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
		or size, and woody plants less than 5.20 it tall.
		Woody vine – All woody vines greater than 3.28 ft in
		height.
•		
i total co	/er: <u></u>	
		Hydrophytic
		Vegetation Present? Yes No X
f total co	/er:	1103CH. 103 100
	Y Y N N = Total C f total cov	Y FAC Y FACU N UPL N UPL = Total Cover f total cover: 20

SOIL Sampling Point: UD16BPH_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of	indicators.)	
Depth	Matrix			ox Features					
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	·
0-18	10YR 7/1	100					Sand		
									_
1Typo: C=C	oncentration, D=De	olotion DM-D	oduced Matrix M	S-Mackad	I Sand Gr	oine	² Location: PL	=Pore Lining, M=Ma	triv
	Indicators: (Appli					airis.		Problematic Hydri	
		Cable to all Li				DDCTI		-	C JOHS .
Histosol	oipedon (A2)		Polyvalue B Thin Dark S				· —	k (A9) (LRR O) k (A10) (LRR S)	
Black Hi			Loamy Mucl					Vertic (F18) (outside	MI RA 150A R)
I =	en Sulfide (A4)		Loamy Gley	-		. 0,		Floodplain Soils (F1	
	d Layers (A5)		Depleted Ma	•	,			is Bright Loamy Soils	
	Bodies (A6) (LRR F	P. T. U)	Redox Dark		6)		(MLRA		(. 20)
	ıcky Mineral (A7) (L		Depleted Da	`	,		`	nt Material (TF2)	
	esence (A8) (LRR I		Redox Depr					low Dark Surface (Ti	- 12)
	ıck (A9) (LRR P, T)		Marl (F10) (LRR U)			Other (Ex	plain in Remarks)	
Deplete	d Below Dark Surfac	ce (A11)	Depleted Od	chric (F11)	(MLRA 1	51)			
	ark Surface (A12)		Iron-Mangar					ors of hydrophytic veg	
	rairie Redox (A16) (Umbric Surf			, U)		d hydrology must be	
	Mucky Mineral (S1) (LRR O, S)	Delta Ochric					disturbed or problen	natic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont FI					-ap)	
_	Matrix (S6)	e T II\	Anomalous	Bright Loar	my Soils (F20) (MLR	RA 149A, 153C, 15	3D)	
	rface (S7) (LRR P, : Layer (if observed)								
	Layer (II Observed)	•							
Type:	-1>						Uhadaia Cail Da	12 V	No X
	ches):						nyuric Soil Pro	esent? Yes	NO <u>/ </u>
Remarks:	ydric soil was	not pres	ent						
	yano oon wac	not proc	Oric.						

Project/Site: San Jose Island City/	County: Aransas County Sampling Date: 10/20/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD17BPH_SJI
Investigator(s), BPH	tion Townskin Donner N/A
Landform (hillslong terrace etc.): Barrier island - gulf beach	al relief (concave, convex, none): None Slope (%): 0-1 NWI classification: M2USP
Subragian (IRR at MIRA), LRR T / MLRA 150B Lat. 27.8776	08 Langui -97.026321 Deturni NAD83
Not manned	blatt to its at M2LISP
Soil Map Unit Name: 1101 Happed	NVVI classification: 1012001
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation N Soil N , or Hydrology N significantly distu	urbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N , Soil N , or Hydrology N naturally problem	natic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	In the Committee Land
Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes No X
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes X No	within a wettand:
Remarks:	
Although wetland hydrology was present, the sam	•
wetland due to the absence of dominant hydrophy	tic vegetation and hydric soil.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LF	RR U) Prainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor	
	along Living Roots (C3) Dry-Season Water Table (C2)
☑ Sediment Deposits (B2) ☐ Presence of Reduced Ir ☑ Drift Deposits (B3) ☐ Recent Iron Reduction i	
Algal Mat or Crust (B4) Algal Mat or Crust (B4) Thin Muck Surface (C7)	
☐ Iron Deposits (B5) ☐ Other (Explain in Rema	· · · · · · · · · · · · · · · · · · ·
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Remarks:	
Wetland hydrology was present.	
Wolland Hydrology was prosent.	

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point: _UD17BPH_SJI Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: _____) % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B) 6.______ Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ = Total Cover FACW species _____ x 2 = ____ 50% of total cover: _____ 20% of total cover: ____ FAC species _____ x 3 = ____ Sapling/Shrub Stratum (Plot size: _____) FACU species _____ x 4 = ____ UPL species _____ x 5 = ____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____ Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 ___ Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: _____ 20% of total cover: ____ Herb Stratum (Plot size: 30'X30') ¹Indicators of hydric soil and wetland hydrology must 1 Sesuvium portulacastrum **FACW** be present, unless disturbed or problematic. 2. Ipomoea pes-caprae FAC **Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in, (7.6 cm) or more in diameter at breast height (DBH), regardless of 4._____ height. Sapling/Shrub - Woody plants, excluding vines, less

3 = Total Cover 50% of total cover: 1.5 ___ 20% of total cover: 0.6 Woody Vine Stratum (Plot size:) _____ = Total Cover 50% of total cover: _____ 20% of total cover: ___

than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine - All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present?

Yes ____ No X

Remarks: (If observed, list morphological adaptations below).

Dominant hydrophytic vegetation was not present due to the total vegetative cover being less than 5%.

SOIL Sampling Point: UD17BPH_SJI

Depth	cription: (Describe Matrix		Red	ox Feature	s			•	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u> _	Remarl	ks
0-18	10YR 6/2	<u> 100 </u>					Sand		
				_					
				_					
Tunal C=C	Concentration D=Da		adveced Metrix M		d Cand C		2l continue DI	=Pore Lining, M=M	l atrix
	oncentration, D=De Indicators: (Applie					ams.		r Problematic Hyd	
Histoso		cable to all El	Polyvalue B			DDCTI		k (A9) (LRR O)	ne dons .
	pipedon (A2)		Thin Dark S				· —	k (A10) (LRR S)	
=	listic (A3)		Loamy Muc	-				Vertic (F18) (outsi	de MLRA 150A.E
_	en Sulfide (A4)		Loamy Gley	•	. , .	/		Floodplain Soils (F	
	d Layers (A5)		Depleted Ma		` ,			ıs Bright Loamy So	
Organio	Bodies (A6) (LRR I	P, T, U)	Redox Dark	Surface (F	- 6)		(MLRA	153B)	
	ucky Mineral (A7) (L		Depleted Da		. ,			nt Material (TF2)	
	resence (A8) (LRR I		Redox Depr		8)			llow Dark Surface (TF12)
_	uck (A9) (LRR P, T)		☐ Marl (F10) (U Other (Ex	plain in Remarks)	
=	d Below Dark Surfac	ce (A11)	Depleted O		•	•	T \ 31		4-4:
	ark Surface (A12)	MI DA 150A)	Iron-Manga					ors of hydrophytic ve d hydrology must b	-
	Prairie Redox (A16) (Mucky Mineral (S1) (Umbric Surf			, 0)		d flydrology fflust b disturbed or proble	
_	Gleyed Matrix (S4)	(LKK 0, 3)	Reduced Ve			OA. 150B)		disturbed or proble	anauc.
_	Redox (S5)		Piedmont Fl						
_	d Matrix (S6)						RA 149A, 153C, 1	53D)	
_	urface (S7) (LRR P,	S, T, U)		J	·	, , ,	, ,	,	
Restrictive	Layer (if observed)):							
Type:									
Depth (ir	iches):						Hydric Soil Pr	esent? Yes	_{No} X
Remarks:							1 -		
F	lydric soil was	s not pres	ent.						

Project/Site: San Jose Island	City/County: Ara	ansas County	Sampling Date: 10/20/2021
Applicant/Owner: Port of Corpus Christi Authority	- , , <u></u>	State: TX	Sampling Point: UD18BPH_SJI
Investigator(s): BPH Landform (hillslope, terrace, etc.): Barrier island - beach dune	Section, Townsh	p, Range: N/A	
Landform (hillslope, terrace, etc.): Barrier island - beach dune	Local relief (conc	ave, convex, none): Convex	Slope (%): 7-10
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.8	- 377962 `	Long: -97.027006	Datum: NAD83
Soil Map Unit Name: Beaches		NWI classific	ation: M2USP
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes X	No (If no, explain in R	emarks.)
Are Vegetation N , Soil N , or Hydrology N significant			
Are Vegetation \overline{N} , Soil \overline{N} , or Hydrology \overline{N} naturally p	oroblematic?	(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site map showin			•
Hadron St. Vandation Brown 10		<u> </u>	· ·
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X	- Is the Sar	npled Area	V
Wetland Hydrology Present? Yes No X	within a V	Vetland? Yes	No X
Remarks:	_		
The sampled area was determined to not be	within a wetla	and due to the absen	ce of dominant
hydrophytic vegetation, hydric soil, and wetlan			
	· · · · · · · · · · · · · · · · · · ·		
HYDROLOGY			
Wetland Hydrology Indicators:		_	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	•	Surface Soil	· ·
Surface Water (A1) Aquatic Fauna (B	•		getated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Hydrogen Sulfide		<u></u> Drainage Pa ☐ Moss Trim L	· ·
	pheres along Living		Water Table (C2)
Sediment Deposits (B2) Presence of Redu		Crayfish Bur	· · ·
	uction in Tilled Soils	= '	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface			Position (D2)
Iron Deposits (B5) Other (Explain in	Remarks)	Shallow Aqu	itard (D3)
Inundation Visible on Aerial Imagery (B7)		☐ FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)
Field Observations:			
	es):		
Water Table Present? Yes No X Depth (inches			V
Saturation Present? Yes No X Depth (inche (includes capillary fringe)	es):	Wetland Hydrology Preser	nt? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspe	ctions), if available:	
Remarks:			
Wetland hydrology was not present.			

EGETATION (Four Strata) –	Use scientific na	mes of pl	ants.		Sampling Point: UD18BPH_S		
			Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size: 1			Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)		
2					Total Number of Dominant		
3					Species Across All Strata: 3 (B)		
1					Description of Description of Control		
5					Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)		
6							
7					Prevalence Index worksheet:		
3.					Total % Cover of: Multiply by:		
			= Total Cov	er	OBL species $0 \times 1 = 0$		
50%	of total cover:				FACW species $0 \times 2 = 0$		
Sapling/Shrub Stratum (Plot size:					FAC species $0 \times 3 = 0$		
					FACU species <u>45</u>		
). 					UPL species <u>50</u> x 5 = <u>250</u>		
3					Column Totals: <u>95</u> (A) <u>430</u> (B)		
ł :					Prevalence Index = B/A = $\frac{4.5}{}$		
5					Hydrophytic Vegetation Indicators:		
S					1 - Rapid Test for Hydrophytic Vegetation		
7					2 - Dominance Test is >50%		
3					3 - Prevalence Index is ≤3.0 ¹		
			= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)		
	of total cover:	20% of	total cover	:			
Herb Stratum (Plot size: 30'X30)	0.5		LIDI	¹ Indicators of hydric soil and wetland hydrology must		
Heterotheca subaxillaris		35	<u>Y</u>	UPL	be present, unless disturbed or problematic.		
Chamaecrista fasciculata		25	<u>Y</u>	FACU	Definitions of Four Vegetation Strata:		
_{3.} Uniola paniculata		20	<u>Y</u>	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or		
1. Physalis cinerascens		10	<u>N</u>	UPL	more in diameter at breast height (DBH), regardless		
5. Oenothera drummondii		3	N	UPL	height.		
_{6.} <u>Dalea leporina</u> 7.		2	N	UPL	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
3.					Herb – All herbaceous (non-woody) plants, regardless		
9					of size, and woody plants less than 3.28 ft tall.		
10					Woody vine - All woody vines greater than 3.28 ft in		
11					height.		
12							
			= Total Cov				
50%	of total cover: 47.5	20% of	total cover	: <u>19</u>			
Noody Vine Stratum (Plot size:)						
1							
2							
3							
4							
5					Hydrophytic		
			= Total Cov	er er	Vegetation		
50%	of total cover:	20% of	total cover	:	Present? Yes No X		
Remarks: (If observed, list morpholog	gical adaptations belo	w).			<u> </u>		
Dominant hydrophytic veg	-	•	ent.				

SOIL Sampling Point: UD18BPH_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of	indicators.)	
Depth	Matrix			ox Features					
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	·
0-18	10YR 7/1	100					Sand		
									_
1Typo: C=C	oncentration, D=De	olotion DM-D	oduced Matrix M	S-Mackad	I Sand Gr	oine	² Location: PL	=Pore Lining, M=Ma	triv
	Indicators: (Appli					airis.		Problematic Hydri	
		Cable to all Li				DDCTI		-	C JOHS .
Histosol	oipedon (A2)		Polyvalue B Thin Dark S				· —	k (A9) (LRR O) k (A10) (LRR S)	
Black Hi			Loamy Mucl					Vertic (F18) (outside	MI RA 150A R)
I =	en Sulfide (A4)		Loamy Gley	-		. 0,		Floodplain Soils (F1	
	d Layers (A5)		Depleted Ma	•	,			is Bright Loamy Soils	
	Bodies (A6) (LRR F	P. T. U)	Redox Dark		6)		(MLRA		(. 20)
	ıcky Mineral (A7) (L		Depleted Da	`	,		`	nt Material (TF2)	
	esence (A8) (LRR I		Redox Depr					low Dark Surface (Ti	- 12)
	ıck (A9) (LRR P, T)		Marl (F10) (LRR U)			Other (Ex	plain in Remarks)	
Deplete	d Below Dark Surfac	ce (A11)	Depleted Od	chric (F11)	(MLRA 1	51)			
	ark Surface (A12)		Iron-Mangar					ors of hydrophytic veg	
	rairie Redox (A16) (Umbric Surf			, U)		d hydrology must be	
	Mucky Mineral (S1) (LRR O, S)	Delta Ochric					disturbed or problen	natic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont FI					-an)	
_	Matrix (S6)	e T II\	Anomalous	Bright Loar	my Soils (F20) (MLR	RA 149A, 153C, 15	3D)	
	rface (S7) (LRR P, : Layer (if observed)								
	Layer (II Observed)	•							
Type:	-1>						Uhadaia Cail Da	12 V	No X
	ches):						nyaric Soil Pro	esent? Yes	NO <u>/ </u>
Remarks:	ydric soil was	not pres	ent						
	yano oon wac	not proc	Oric.						

Project/Site: San Jose Island	City/County: Aransas	County	Sampling Date: 10/20/2021
Applicant/Owner: Port of Corpus Christi Authority		State: TX	Sampling Point: UD19BPH_S
Investigator(s): BPH Landform (hillslope, terrace, etc.): Barrier island - coppice mound	Section, Township, Rang	e: N/A	
Landform (hillslope, terrace, etc.): Barrier island - coppice mound	Local relief (concave, cor	_{ivex, none):} Conca	ve Slope (%): 3-5
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.87	73822 Lor	ng: -97.029159	Datum: NAD83
Soil Map Unit Name: Not mapped		NWI classific	cation: M2USP
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes X No	(If no, explain in F	Remarks.)
Are Vegetation \underline{N} , Soil \underline{N} , or Hydrology \underline{N} significantly	disturbed? Are "No	ormal Circumstances"	present? Yes X No
Are Vegetation N , Soil N , or Hydrology N naturally properties	blematic? (If need	ded, explain any answe	
SUMMARY OF FINDINGS – Attach site map showing			·
Libration buttle Manager Duncant 2			
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled A		
Wetland Hydrology Present? Yes X No	within a Wetland	? Yes X	No
Remarks:			
The sampled area was determined to be within	າ a wetland due to	the presence	of dominant
hydrophytic vegetation, hydric soil, and wetland		The presence	or dominant
Trydrophytic vegetation, rrydric 3011, and wettank	a frydrology.		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	3)	☑ Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15)) (LRR U)	Drainage Pa	atterns (B10)
Saturation (A3) Hydrogen Sulfide C	Odor (C1)	<u></u> Moss Trim L	ines (B16)
	eres along Living Roots (0	C3) 🔲 Dry-Season	Water Table (C2)
Sediment Deposits (B2)	ed Iron (C4)	🖳 Crayfish Bur	rrows (C8)
Drift Deposits (B3)	tion in Tilled Soils (C6)	☐ Saturation V	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	, ,	Geomorphic	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in R	emarks)	∐ Shallow Aqu	` '
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	l Test (D5)
☐ Water-Stained Leaves (B9)			moss (D8) (LRR T, U)
Field Observations:			
):		
Water Table Present? Yes No X Depth (inches)			~
Saturation Present? Yes No X Depth (inches) (includes capillary fringe)): Wetla	and Hydrology Presei	nt? Yes <u>^</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), i	f available:	
Remarks:			
Wetland hydrology was present.			
, 3, 1			

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Descent of Descinant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Co		OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 =
1				FACU species x 4 =
				UPL species x 5 =
2				Column Totals: (A) (B)
3				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 30'X30')				¹ Indicators of hydric soil and wetland hydrology must
1. Ipomoea pes-caprae	20	Υ	FAC	be present, unless disturbed or problematic.
2. Sporobolus virginicus	10	Υ	FACW	Definitions of Four Vegetation Strata:
3. Oenothera drummondii	5	N	UPL	- W
4. Panicum amarum	5	N	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6.				Conline/Charle Woody plants avaluating vines loss
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				
8				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9			-	or size, and woody plants less than 3.20 it tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
20		= Total Co		
50% of total cover: 20	20% of	total cover	: 8	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Co	ver	Vegetation
50% of total cover:	20% of	total cove	··	Present? Yes X No
Remarks: (If observed, list morphological adaptations believed)				
	•			
Dominant hydrophytic vegetation was p	resent.			

Sampling Point: UD19BPH_SJI

SOIL Sampling Point: UD19BPH_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of i	ndicators.)	
Depth	Matrix	<u> </u>		x Feature		12	T4	Damada	
(inches) 0-18	Color (moist) 10YR 6/2		Color (moist) 10YR 5/6	2	Type ¹	<u>Loc²</u> M	Texture Sand	Remarks	
0-10	1011 0/2	_ 90 _	1011 3/0		<u> </u>	<u> </u>	Sanu		
				-					
	-								
									
¹ Type: C=C	oncentration, D=De	pletion, RM=F	Reduced Matrix, M	S=Masked	d Sand G	rains.	² Location: PL:	=Pore Lining, M=Matri	x.
Hydric Soil	Indicators: (Applie	cable to all L	RRs, unless othe	rwise not	ed.)		Indicators for	Problematic Hydric	Soils³:
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (LRR S, T,	υ) <u> </u>	(A9) (LRR O)	
	oipedon (A2)		Thin Dark Su	urface (S9)	(LRR S	, T, U)		(A10) (LRR S)	
_	stic (A3)		Loamy Muck	-		R O)		/ertic (F18) (outside I	
	en Sulfide (A4)		Loamy Gleye		F2)			Floodplain Soils (F19)	. , ,
	d Layers (A5)	. T III	Depleted Ma		-0)			s Bright Loamy Soils (F20)
	Bodies (A6) (LRR Ficky Mineral (A7) (L		Depleted Da	`	,		(MLRA 1	nt Material (TF2)	
	esence (A8) (LRR I		Redox Depre					ow Dark Surface (TF1	2)
	ick (A9) (LRR P, T)	-,	Marl (F10) (L		O)			olain in Remarks)	_,
	d Below Dark Surfac	ce (A11)	Depleted Oc		(MLRA 1	151)	` '	,	
Thick Da	ark Surface (A12)		Iron-Mangar	ese Mass	es (F12)	(LRR O, P	, T) ³ Indicator	rs of hydrophytic vege	tation and
	rairie Redox (A16) (_					d hydrology must be p	
	lucky Mineral (S1)	LRR O, S)	Delta Ochric					disturbed or problema	tic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5) Matrix (S6)		Piedmont Flo				49A) RA 149A, 153C, 15	3D/	
	rface (S7) (LRR P, :	S T II)	Anomalous i	origrit Loai	ny Sons	(F20) (WILF	KA 149A, 153C, 15	30)	
	Layer (if observed)								
Type:	.,	'							
	ches):						Hydric Soil Pre	esent? Yes X	No
Remarks:			<u> </u>				,		
H	ydric soil was	s present							
	-	•							

Project/Site: San Jose Island City/C	County: Aransas County Sampling Date: 10/20/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD20BPH_SJI
	on, Township, Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - coppice mound Local	Uralief (conseque convex pane): Convex
Colors for (LDD and LDA) LRR T / MLRA 150B 12 87384	18 -97 029227 -97 NAD83
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.87384 Soil Map Unit Name: Not mapped	Long: Datum: Datum: Datum: Datum: Datum:
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation N , Soil N , or Hydrology N significantly disturbed.	rbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation \underline{N} , Soil \underline{N} , or Hydrology \underline{N} naturally problem	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes No X
Hydrophytic Vegetation Present? Yes X No	within a Wetland? Yes No _^
Remarks:	
Although dominant hydrophytic vegetation was pre	esent, the sampled area was determined to not be
within a wetland due to the absence of wetland hy	·
·	0.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) High Water Table (A2) High Water Table (A2) High Water Table (A2)	
☐ Saturation (A3) ☐ Hydrogen Sulfide Odor (☐ Water Marks (B1) ☐ Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Iro	
Drift Deposits (B3) Recent Iron Reduction in	
Algal Mat or Crust (B4)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	ks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was not present.	
welland hydrology was not present.	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				Dansont of Dansin and Conscient
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				(VB)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
·		= Total Co		OBL species x 1 =
E00/ of total govern				FACW species x 2 =
50% of total cover:	20% 01	total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =
1				UPL species x 5 =
2				Column Totals: (A) (B)
3				Column rotals (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				
		= Total Co		3 - Prevalence Index is ≤3.0¹
50% of total cover:				Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30'X30')	20 /6 01	lotal cover	• ——	
	25	Υ	FAC	Indicators of hydric soil and wetland hydrology must
1. Ipomoea pes-caprae	25	<u>'</u>	FAC	be present, unless disturbed or problematic.
2. Panicum amarum				Definitions of Four Vegetation Strata:
3. Spartina patens	18	Y	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Uniola paniculata	10	<u>N</u>	FACU	more in diameter at breast height (DBH), regardless of
5. Sporobolus virginicus	2	N	FACW	height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Harb All berbasses (non woods) plants regardless
9.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	80			
40		= Total Co		
50% of total cover: 40	20% of	total cover	: 10	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5.				Livelyambyetia
		= Total Co	ver	Hydrophytic Vegetation
50% of total cover:				Present? Yes X No
		total cover	•	
Remarks: (If observed, list morphological adaptations below	•			
Dominant hydrophytic vegetation was p	resent.			

Sampling Point: UD20BPH_SJI

SOIL Sampling Point: UD20BPH_SJI

Depth	Matrix			ox Feature	s		n the absence			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-18	10YR 7/1	<u> 100 </u>					Sand			
	oncentration D=Dec		advesd Matrix N				2l continu	DI =Doro I	ining, M=Mat	
	oncentration, D=Deplicators: (Application)					airis.			matic Hydric	
Histosol		cable to all Li	Polyvalue B			DDCTI		luck (A9) (L	-	Cons .
=	pipedon (A2)		Thin Dark S					luck (A9) (L luck (A10) (•	
=	istic (A3)		Loamy Muc							MLRA 150A,E
	en Sulfide (A4)		Loamy Gley	•	. , .	- ,		•	, .) (LRR P, S, T
	d Layers (A5)		Depleted Ma		,				Loamy Soils	
📘 Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	- 6)		(MLR	A 153B)		
	ucky Mineral (A7) (L		Depleted Da		, ,			rent Materi		
	resence (A8) (LRR l		Redox Depr	•	8)				Surface (TF	12)
_	uck (A9) (LRR P, T)		☐ Marl (F10) (U Other (Explain in F	Remarks)	
= '	d Below Dark Surfac	ce (A11)	Depleted O		•	•	T \ 31	-4	l	-4-4:
	ark Surface (A12) rairie Redox (A16) (MI DA 150A\	☐ Iron-Manga					-	Irophytic veg ogy must be i	
	лаше Nedox (АТО) (Лucky Mineral (S1) (Delta Ochrid			, 0)		-	d or problem	
_	Gleyed Matrix (S4)	Likit O, O,	Reduced Ve			0A. 150B)		os distarbe	a or problem	ano.
_	Redox (S5)		☐ Piedmont Fi							
_	l Matrix (S6)						RA 149A, 153C,	153D)		
Dark Su	rface (S7) (LRR P,	S, T, U)								
Restrictive	Layer (if observed)):								
Restrictive Type:	Layer (if observed)):	_							
):	<u> </u>				Hydric Soil	Present?	Yes	X
Type: Depth (in Remarks:	ches):		_ 				Hydric Soil	Present?	Yes	No X
Type: Depth (in temarks:			– – ent.				Hydric Soil	Present?	Yes	_ No X
Type: Depth (in temarks:	ches):		 ent.				Hydric Soil	Present?	Yes	X
Type: Depth (in	ches):		 ent.				Hydric Soil	Present?	Yes	No X
Type: Depth (in	ches):		ent.				Hydric Soil	Present?	Yes	_ No X
Type: Depth (in temarks:	ches):		 ent.				Hydric Soil	Present?	Yes	No X
Type: Depth (in	ches):		 ent.				Hydric Soil	Present?	Yes	_ No X
Type: Depth (in emarks:	ches):		ent.				Hydric Soil	Present?	Yes	No <u>X</u>
Type: Depth (in emarks:	ches):		ent.				Hydric Soil	Present?	Yes	No X
Type: Depth (in emarks:	ches):		ent.				Hydric Soil	Present?	Yes	No X
Type: Depth (in emarks:	ches):		ent.				Hydric Soil	Present?	Yes	_ No <u>X</u>
Type: Depth (in	ches):		ent.				Hydric Soil	Present?	Yes	No X
Type: Depth (in emarks:	ches):		ent.				Hydric Soil	Present?	Yes	No X
Type: Depth (in emarks:	ches):		ent.				Hydric Soil	Present?	Yes	No X
Type: Depth (in emarks:	ches):		ent.				Hydric Soil	Present?	Yes	No X
Type: Depth (in temarks:	ches):		ent.				Hydric Soil	Present?	Yes	No X
Type: Depth (in Remarks:	ches):		ent.				Hydric Soil	Present?	Yes	No X
Type: Depth (in Remarks:	ches):		ent.				Hydric Soil	Present?	Yes	No X
Type: Depth (in Remarks:	ches):		ent.				Hydric Soil	Present?	Yes	No X
Type: Depth (in Remarks:	ches):		ent.				Hydric Soil	Present?	Yes	No X
Type: Depth (in temarks:	ches):		ent.				Hydric Soil	Present?	Yes	No X
Type: Depth (in emarks:	ches):		ent.				Hydric Soil	Present?	Yes	No X
Type: Depth (in emarks:	ches):		ent.				Hydric Soil	Present?	Yes	No X

Project/Site: San Jose Island City/C	County: Aransas County Sampling Date: 11/11/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD21BPH_SJ
	on, Township, Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - hummocky upland Local	relief (concave, convex, none); Convex Slope (%); 8-10
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.87468	Long: -97.030330 Datum: None
Soil Map Unit Name: Beaches	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ significantly distur	
Are Vegetation N , Soil N , or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing san	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X	within a Wetland? Yes No X
Remarks:	
The sampled area was determined to not be within	
hydrophytic vegetation, hydric soil, and wetland hy	arology.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LR)	
Saturation (A3) Hydrogen Sulfide Odor (i	
☐ Water Marks (B1) ☐ Oxidized Rhizospheres at Deposits (B2) ☐ Presence of Reduced Iron	
Drift Deposits (B3) Recent Iron Reduction in	
Algal Mat or Crust (B4)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	ks)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No X
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was not present.	
wetiand rigurology was not present.	

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 33 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Co	ver	OBL species $\frac{0}{50}$ x 1 = $\frac{0}{100}$
50% of total cover:	20% of	total cover	:	FACW species $\frac{50}{2}$ x 2 = $\frac{100}{2}$
Sapling/Shrub Stratum (Plot size:)				FAC species $0 \times 3 = 0$
				FACU species 20 x 4 = 80
1				UPL species 30 x 5 = 150
2				Column Totals: 100 (A) 330 (B)
3				
4				Prevalence Index = B/A = 3.3
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 30'x30')				¹ Indicators of hydric soil and wetland hydrology must
_{1.} Paspalum monostachyum	40	Υ	FACW	be present, unless disturbed or problematic.
2. Schizachyrium scoparium	20	Υ	FACU	Definitions of Four Vegetation Strata:
3. Heterotheca subaxillaris	20	Y	UPL	
4. Physalis cinerascens	10	N	UPL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Vigna luteola	10	\overline{N}	FACW	height.
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 5 m. bbr and greater than 5.20 h (1 m) tail.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Co		
50% of total cover: <u>50</u>	20% of	total cover	: <u>20</u>	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4.				
5.				
<u> </u>		= Total Co		Hydrophytic Vegetation
EOO/ of total across				Present? Yes No X
50% of total cover:		total cover	·	
Remarks: (If observed, list morphological adaptations believed)	•			
Dominant hydrophytic vegetation was r	not prese	ent.		
	•			

Sampling Point: UD21BPH_SJI

SOIL Sampling Point: UD21BPH_SJI

	Matrix		Red	ox Feature	S		n the absence o			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-18	10YR 7/2	100		_			Sand			
	-	-			-					
				_						
	-									
	-									
<u> </u>		- Infirm DM D	Andrea al Martela N				21	D. Daniel Co	NA NA-1-	
	oncentration, D=Deplicators: (Application)					ains.	Indicators f		ning, M=Matr	
_		Jabie io ali Li				DD C T I			-	Julis .
Histosol	pipedon (A2)		Polyvalue B Thin Dark S				· -	uck (A9) (LF uck (A10) (L		
=	istic (A3)		Loamy Mucl							MLRA 150A,E
=	en Sulfide (A4)		Loamy Gley	•	. , .	• • •		•	, .	(LRR P, S, T
	d Layers (A5)		Depleted Ma		,				oamy Soils (•
	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	6)			A 153B)	·	
	ucky Mineral (A7) (L		Depleted Da		` ,			rent Materia		
	resence (A8) (LRR l		Redox Depr	•	8)				Surface (TF	12)
_	uck (A9) (LRR P, T)		☐ Marl (F10) (•			U Other (E	Explain in R	emarks)	
= '	d Below Dark Surfac	ce (A11)	Depleted Oc		•	•	- \ 3			
=	ark Surface (A12)	MI DA 150A\	Iron-Mangai					-	ophytic vege gy must be p	
	rairie Redox (A16) (Jucky Mineral (S1) (Umbric Surf			, 0)		-	gy must be p I or problema	
_	Gleyed Matrix (S4)	LKK 0, 3)	Reduced Ve			0A. 150B)		ss distuibed	i di pidbieilia	auc.
_	Redox (S5)		Piedmont FI							
_	d Matrix (S6)						RA 149A, 153C,	153D)		
_	ırface (S7) (LRR P, 3	S, T, U)	<u>—</u>	J	·	, ,		,		
Restrictive	Layer (if observed)):								
Type:										
	ches):						Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:			<u> </u>				Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:	ches):	s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	<u>No_X</u>
Type: Depth (in temarks:		s not pres	 ent.				Hydric Soil F	resent?	Yes	No <u>X</u>
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	_ No <u>X</u>
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	. No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	_ No <u>X</u>
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	_ No <u>X</u>
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	_ No <u>X</u>
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	. No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	. No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	. No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X

Project/Site: San Jose Island City/C	county: Aransas County Sampling Date: 10/21/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD22BPH_SJI
Investigator/e): BPH Section	on Township Range: NA
Landform (hillslope, terrace, etc.): Barrier island - gulf beach Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.86931	relief (consever convey none): None Slone (%): 0-1
Subregion (LRR or MLRA), LRR T / MLRA 150B Let. 27.86931	1 January -97.031969 Solphe (78) Slophe (78)
Soil Map Unit Name: Not mapped	NWI classification: M2USP
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ significantly distur	
Are Vegetation N , Soil N , or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	ppling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	
Hydric Soil Present? Yes X No	Is the Sampled Area within a Wetland? Yes No X
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	within a Wetland? Yes No _^
Remarks:	
Although hydric soil and wetland hydrology were p	resent, the sampled area was determined to not
be within a wetland due to the absence of dominar	nt hydrophytic vegetation.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Marl Deposits (B15) (LRI	Sparsely Vegetated Concave Surface (B8) R U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C	
Water Marks (B1) Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Iro	
Drift Deposits (B3)	Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
	☐ Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was present.	
Wettand hydrology was present.	

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point: _UD22BPH_SJI Absolute Dominant Indicator **Dominance Test worksheet:** <u>Tree Stratum</u> (Plot size: _____) % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: _____(A) Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B) 6. _____ ___ ___ Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ = Total Cover FACW species _____ x 2 = ____ 50% of total cover: _____ 20% of total cover: ____ FAC species _____ x 3 = ____ Sapling/Shrub Stratum (Plot size: _____) FACU species _____ x 4 = ____ UPL species _____ x 5 = ____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____ Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 ___ Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: _____ 20% of total cover: ____ Herb Stratum (Plot size: 30'x30') ¹Indicators of hydric soil and wetland hydrology must 1 Panicum amarum FAC be present, unless disturbed or problematic. 2. Sesuvium portulacastrum **FACW Definitions of Four Vegetation Strata:** 3. Ipomoea pes-caprae 1 FAC Tree - Woody plants, excluding vines, 3 in, (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. **Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. 3 = Total Cover 50% of total cover: 1.5 ___ 20% of total cover: 0.6 Woody Vine Stratum (Plot size:) Hydrophytic _____ = Total Cover Vegetation Yes No X Present? 50% of total cover: _____ 20% of total cover: ___ Remarks: (If observed, list morphological adaptations below).

Dominant hydrophytic vegetation was not present since the total cover was less than five percent.

SOIL Sampling Point: UD22BPH_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	indicator	or confire	n the absence of i	ndicators.)	
Depth	Matrix	<u></u> %		x Feature		12	T t	Damada	
(inches) 0-18	Color (moist) 10YR 6/2		Color (moist) 10YR 5/8	2	Type ¹	_ <u>Loc²</u>	<u>Texture</u> Sand	Remarks	
0-10	1011 0/2	_ 90 _	1011 3/6		<u> </u>	<u> </u>	Sanu		
				_,		<u> </u>			
	-				-				
¹ Type: C=C	oncentration, D=De	pletion, RM=F	Reduced Matrix, M	S=Masked	d Sand G	rains.	² Location: PL:	=Pore Lining, M=Matrix.	
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless othe	rwise not	ed.)		Indicators for	Problematic Hydric Soi	ls³:
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (LRR S, T,	U) 1 cm Muck	(A9) (LRR O)	
	oipedon (A2)		Thin Dark Su	urface (S9) (LRR S	, T, U)		(A10) (LRR S)	
_	stic (A3)		Loamy Muck	-		R 0)		/ertic (F18) (outside MLF	
	en Sulfide (A4)		Loamy Gleye		(F2)			Floodplain Soils (F19) (LI	
	d Layers (A5)	. T III	Depleted Ma		-0)			s Bright Loamy Soils (F20	")
	Bodies (A6) (LRR I cky Mineral (A7) (L		Redox Dark	`	,		(MLRA 1	nt Material (TF2)	
	esence (A8) (LRR I		Depleted Da					ow Dark Surface (TF12)	
	ick (A9) (LRR P, T)	5 ,	Marl (F10) (L	,	0)			plain in Remarks)	
	d Below Dark Surfa	ce (A11)	Depleted Oc		(MLRA 1	I 51)	` '	,	
Thick Da	ark Surface (A12)		Iron-Mangar	ese Mass	es (F12)	(LRR O, P	, T) ³ Indicator	rs of hydrophytic vegetation	on and
	rairie Redox (A16) (_					d hydrology must be prese	ent,
	lucky Mineral (S1)	LRR O, S)	Delta Ochric					disturbed or problematic.	
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont Flo					3D/	
	Matrix (S6) rface (S7) (LRR P,	S T II)	Anomalous i	origini Loai	my Sons	(FZU) (IVILF	RA 149A, 153C, 15	(טנ	
	Layer (if observed)								
Type:	.,								
	ches):						Hydric Soil Pre	esent? Yes X	lo
Remarks:							1 .,		
H	ydric soil was	present							
	-	•							

Applicant/Owner: Port of Corpus Christi Authority	Ounty: Aransas County State: TX Sampling Date: 10/21/2021 Sampling Point: UD23BPH_SJI On, Township, Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - beach dune Local Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.86954 Soil Map Unit Name: Beaches	relief (concave, convex, none): Concave Slope (%): 3-5 7 Long: -97.032456 Datum: NAD83 NWI classification: M2USP
Are climatic / hydrologic conditions on the site typical for this time of year? Y Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ significantly disturb Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ naturally problems	hed? Are "Normal Circumstances" present? Yes X No Atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	Is the Sampled Area within a Wetland? Yes No _X
The sampled area was determined to not be within hydrophytic vegetation, hydric soil, and wetland hy	
HYDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1)	Moss Trim Lines (B16) long Living Roots (C3) n (C4) Tilled Soils (C6) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Surface Water Present? Yes No X Depth (inches):	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre Remarks: Wetland hydrology was not present.	vious inspections), if available:

% Cover	Dominant Species?	Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: 2 (B)
			That Are OBL, FACW, or FAC: 0 (A)
			Total Number of Dominant
			Total Number of Dominant Species Across All Strata: 2 (B)
			(2)
			Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/E
			That Are OBL, FACW, or FAC: 0 (A/E
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
		er	OBL species <u>0</u> x 1 = <u>0</u>
			FACW species <u>3</u> x 2 = <u>6</u>
_ 2070 01	total cover.		FAC species <u>0</u> x 3 = <u>0</u>
			FACU species 30 x 4 = 120
			UPL species <u>57</u> x 5 = <u>285</u>
			Column Totals: 90 (A) 411 (B)
			Prevalence Index = B/A = 4.6
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
	= Total Cov	er	3 - Prevalence Index is ≤3.0 ¹
			Problematic Hydrophytic Vegetation ¹ (Explain)
			The disease of burdens and quadrustical burdens are as a
40	Υ	UPL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
30	Y	FACU	Definitions of Four Vegetation Strata:
15	N	UPL	
3	N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of
2	N	UPL	height.
			Sapling/Shrub – Woody plants, excluding vines, less
			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
			Harb All borbassaya (non woody) planta regardless
			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
			Woody vine – All woody vines greater than 3.28 ft in height.
			l noight.
90 =	= Total Cov	er	
_			
			Hydrophytic
		er	Vegetation
			Present? Yes No X
<u> </u>			
	20% of 20% of 40 30 15 3 22 90 = 20% of	= Total Cov 20% of total cover: = Total Cov 20% of total cover: = Total Cov 20% of total cover: N N N Total Cov 20% of total cover: - Total Cov - Total Cov - Total Cov - Total Cov - Total Cover: - Total Cover: - Total Cover:	= Total Cover 20% of total cover:

SOIL Sampling Point: UD23BPH_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of	indicators.)	
Depth	Matrix			ox Features					
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	·
0-18	10YR 7/1	100					Sand		
									_
1Typo: C=C	oncentration, D=De	olotion DM-D	oduced Matrix M	S-Mackad	I Sand Gr	oine	² Location: PL	_=Pore Lining, M=Ma	triv
	Indicators: (Appli					airis.		Problematic Hydri	
		Cable to all Li				DDCTI		-	C JOHS .
Histosol	oipedon (A2)		Polyvalue B Thin Dark S				· —	k (A9) (LRR O) k (A10) (LRR S)	
Black Hi			Loamy Mucl					Vertic (F18) (outside	MI RA 150A R)
I =	en Sulfide (A4)		Loamy Gley	-		. 0,		Floodplain Soils (F1	
	d Layers (A5)		Depleted Ma	•	,			is Bright Loamy Soils	
	Bodies (A6) (LRR F	P. T. U)	Redox Dark		6)		(MLRA		(. 20)
	ıcky Mineral (A7) (L		Depleted Da	`	,		`	nt Material (TF2)	
	esence (A8) (LRR I		Redox Depr					low Dark Surface (Ti	- 12)
	ıck (A9) (LRR P, T)		Marl (F10) (LRR U)			Other (Ex	plain in Remarks)	
Deplete	d Below Dark Surfac	ce (A11)	Depleted Od	chric (F11)	(MLRA 1	51)			
	ark Surface (A12)		Iron-Mangar					ors of hydrophytic veg	
	rairie Redox (A16) (Umbric Surf			, U)		d hydrology must be	
	Mucky Mineral (S1) (LRR O, S)	Delta Ochric					disturbed or problen	natic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont FI					-an)	
_	Matrix (S6)	e T II\	Anomalous	Bright Loar	my Soils (F20) (MLR	RA 149A, 153C, 15	3D)	
	rface (S7) (LRR P, : Layer (if observed)								
	Layer (II Observed)	•							
Type:	-1>						Uhadaia Cail Da	12 V	No X
	ches):						nyaric Soil Pro	esent? Yes	NO <u>/ </u>
Remarks:	ydric soil was	not pres	ent						
	yano oon wac	not proc	Oric.						

Applicant/Owner: Port of Corpus Christi Authority	5 Long: -97.034938 Datum: NAD83 NWI classification: M2USP Yes X No (If no, explain in Remarks.) bed? Are "Normal Circumstances" present? Yes X No
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No No Hydric Soil Present? Yes X No No Hemarks: The sampled area was determined to be within a with hydrophytic vegetation, hydric soil, and wetland hy	•
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water Marks (B9) Field Observations:	Moss Trim Lines (B16) Ilong Living Roots (C3) In (C4) Tilled Soils (C6) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	Wetland Hydrology Present? Yes X No
Remarks: Wetland hydrology was present.	

er Speci	Cover	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Total % Cover of: Multiply by: OBL species
= Total	Cover	That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B) Prevalence Index worksheet: Multiply by:
= Total	Cover	Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
= Total	Cover	Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
= Total	Cover	That Are OBL, FACW, or FAC: 100 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by:
= Total	Cover	That Are OBL, FACW, or FAC: 100 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by:
= Total	Cover	Prevalence Index worksheet: Total % Cover of: Multiply by:
= Total = Total o of total co	Cover	Total % Cover of: Multiply by:
= Total	Cover	
= Total o of total co		OBL appoins
	ver:	OBL species x 1 =
		FACW species x 2 =
		FAC species x 3 =
		FACU species x 4 =
		UPL species x 5 =
		Column Totals: (A) (B)
		D 1 1 1 20
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
		X 2 - Dominance Test is >50%
— — Total		3 - Prevalence Index is ≤3.0¹
		Problematic Hydrophytic Vegetation ¹ (Explain)
o or total co	ver:	
V	FΔCW	¹ Indicators of hydric soil and wetland hydrology must
		be present, unless disturbed or problematic.
		Definitions of Four Vegetation Strata:
		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
		more in diameter at breast height (DBH), regardless of height.
		neight.
		Sapling/Shrub – Woody plants, excluding vines, less
		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
		Herb – All herbaceous (non-woody) plants, regardless
		of size, and woody plants less than 3.28 ft tall.
		Woody vine – All woody vines greater than 3.28 ft in
		height.
of total co	ver: 12	
		Hydrophytic
	Cover	Vegetation
of total co	ver:	Present? Yes X No
	= Total 6 of total co Y N N N = Total 6 of total co = Total 6 of total co = Total	_ = Total Cover 6 of total cover: Y FACW Y FACW N FACU N UPL _ = Total Cover 6 of total cover: = Total Cover 6 of total cover:

SOIL Sampling Point: UD24BPH_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of i	ndicators.)
Depth	Matrix	<u></u> %		x Feature		Loc ²	T	Damadia
(inches) 0-18	Color (moist) 10YR 7/2		Color (moist) 10YR 5/8	2	Type ¹	M	Texture Sand	Remarks
0-10	1011/1/2	_ 90 _	1011 3/6		<u> </u>	<u> </u>	Saliu	
				-	-			
	-				-			
								
¹ Type: C=C	oncentration, D=De	pletion, RM=F	Reduced Matrix, M	S=Masked	Sand G	rains.	² Location: PL=	=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless othe	rwise not	ed.)		Indicators for	Problematic Hydric Soils ³ :
☐ Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (LRR S, T,	υ) <u> </u>	(A9) (LRR O)
Histic E	oipedon (A2)		Thin Dark Su	urface (S9)	(LRR S	, T, U)		(A10) (LRR S)
_	stic (A3)		Loamy Muck	-		R O)		/ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		F2)			Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)	. T III	Depleted Ma		-0)			s Bright Loamy Soils (F20)
	Bodies (A6) (LRR I cky Mineral (A7) (L		Depleted Da	`	,		(MLRA 1	nt Material (TF2)
	esence (A8) (LRR I		Redox Depre					ow Dark Surface (TF12)
	ick (A9) (LRR P, T)	-,	Marl (F10) (L		- ,			plain in Remarks)
	d Below Dark Surfac	ce (A11)	Depleted Oc		(MLRA 1	151)	` .	,
Thick Da	ark Surface (A12)		Iron-Mangar	ese Mass	es (F12)	(LRR O, P	, T) ³ Indicator	rs of hydrophytic vegetation and
	rairie Redox (A16) (_					l hydrology must be present,
	lucky Mineral (S1)	LRR O, S)	Delta Ochric					disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ve					
	Redox (S5)		Piedmont Flo					3D)
_	Matrix (S6) rface (S7) (LRR P,	S T II)	Anomalous i	origrit Loai	ny Sons	(F2U) (IVIL F	RA 149A, 153C, 15	30)
	Layer (if observed)							
Type:	.,	'						
ı <u>—</u>	ches):						Hydric Soil Pre	sent? Yes X No
Remarks:							1.,	
H	ydric soil was	present						
	-	•						

Project/Site: San Jose Island City/C	county: Aransas County Sampling Date: 10/21/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD25BPH_SJI
	on, Township, Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - beach dune Local	
Colors in (IRR and RA) LRR T / MIRA 150B Lat 27 86444	5 -97 035027 -97 NAD83
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.86444 Soil Map Unit Name: Beaches	Long: Datum: Datum: Datum: Datum: Datum: Datum: Datum:
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ significantly distur	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N , Soil N , or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes No X
Hydrophytic Vegetation Present? Yes X No	within a Wetland? Yes No
Remarks:	
Although dominant hydrophytic vegetation was pre	sent, the sampled area was determined to not be
within a wetland due to the absence of wetland hyd	•
	,
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRi	
☐ Saturation (A3) ☐ Hydrogen Sulfide Odor (Control of the Marks (B1) ☐ Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Iro	
Drift Deposits (B3) Recent Iron Reduction in	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	(S) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	☐ Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No _X Depth (inches): Saturation Present? Yes No _X Depth (inches):	Wetland Hydrology Present? Yes No X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was not present.	
welland flydrology was not present.	

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:)		Species?		Number of Dominant Species		
1				That Are OBL, FACW, or FAC: 2 (A)		
2				Total Number of Dominant		
3				Species Across All Strata: 3 (B)		
4				Demonstrat Demoissant Conscient		
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 67 (A/B)		
6						
7.				Prevalence Index worksheet:		
8.				Total % Cover of: Multiply by:		
·		= Total Co		OBL species x 1 =		
EON of total across				FACW species x 2 =		
50% of total cover:	20% 01	total cove	r	FAC species x 3 =		
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =		
1			· 	UPL species x 5 =		
2			· 	Column Totals: (A) (B)		
3				Column Totals (A) (B)		
4				Prevalence Index = B/A =		
5				Hydrophytic Vegetation Indicators:		
6				1 - Rapid Test for Hydrophytic Vegetation		
7.				X 2 - Dominance Test is >50%		
8.						
·				3 - Prevalence Index is ≤3.0 ¹		
EON of total cover	= Total Cover 20% of total cover:			Problematic Hydrophytic Vegetation ¹ (Explain)		
	20% 01	total cove				
Herb Stratum (Plot size: 30'x30')	30	Υ	FAC	¹ Indicators of hydric soil and wetland hydrology must		
1. Ipomoea pes-caprae	25	Y		be present, unless disturbed or problematic.		
2. Panicum amarum			FAC	Definitions of Four Vegetation Strata:		
3. Uniola paniculata	20	Y	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or		
4. Spartina patens	15	N	FACW	more in diameter at breast height (DBH), regardless of		
5				height.		
6				Sapling/Shrub – Woody plants, excluding vines, less		
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
8.						
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
9				of size, and woody plants less than 5.20 it tall.		
10			-	Woody vine – All woody vines greater than 3.28 ft in		
11			· 	height.		
12						
		= Total Co				
50% of total cover: <u>45</u>	20% of	total cove	r: <u>18</u>			
Woody Vine Stratum (Plot size:)						
1						
2						
3			. ,			
4.						
5.						
o				Hydrophytic Vegetation		
		= Total Co		Present? Yes X No		
50% of total cover:		total cove	r:			
Remarks: (If observed, list morphological adaptations believed)	ow).					
Dominant hydrophytic vegetation was p	resent.					
, , , , , , , , , , , , , , , , , , , ,						

Sampling Point: UD25BPH_SJI

SOIL Sampling Point: UD25BPH_SJI

Depth	cription: (Describe Matrix	• •	Red	ox Feature				,	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remark	s
0-18	10YR 7/1	100					Sand		
	-								
					· ———				
T 0 6		ulation DM D	and an and Marketin Re	10 Marilia			21	Daniel Catalan M. M.	- 1-2-
	Concentration, D=De Indicators: (Applicators)					ains.		=Pore Lining, M=M Problematic Hydr	
		cable to all Li				DD C T I		•	ic soils .
Histoso	pipedon (A2)		Polyvalue B Thin Dark S				· —	k (A9) (LRR O) k (A10) (LRR S)	
=	listic (A3)		Loamy Muc					Vertic (F18) (outsic	le MI RA 150A F
	en Sulfide (A4)		Loamy Gley	•	. , .	. •,		Floodplain Soils (F	
	ed Layers (A5)		Depleted Ma		,			is Bright Loamy Soi	
	Bodies (A6) (LRR I	P, T, U)	Redox Dark	Surface (F	- 6)		(MLRA	-	
5 cm M	ucky Mineral (A7) (L	.RR P, T, U)	Depleted Da	ark Surface	e (F7)			nt Material (TF2)	
	resence (A8) (LRR		Redox Depr	•	8)		—	low Dark Surface (1	F12)
_	uck (A9) (LRR P, T)			•			U Other (Ex	plain in Remarks)	
=	ed Below Dark Surfa	ce (A11)	Depleted O		•	•	- 3		
	erk Surface (A12)	(MI DA 450A)	Iron-Manga					rs of hydrophytic ve	-
	Prairie Redox (A16) (Mucky Mineral (S1) (_			, U)		d hydrology must be disturbed or proble	
	Gleyed Matrix (S4)	(LKK U, 3)	Delta Ochrid			.0Δ 150R)		disturbed of proble	mauc.
_	Redox (S5)		Piedmont Fl						
=	d Matrix (S6)						RA 149A, 153C, 15	3D)	
_	urface (S7) (LRR P,	S, T, U)	_	3	, ,	, (,,	,	
	Layer (if observed)								
Type:									
Depth (ir	nches):						Hydric Soil Pre	esent? Yes	No X
Remarks:	,						1 -		
H	łydric soil was	s not pres	ent.						

Project/Site: San Jose Island	Citv/County: A	Aransas County	Sampling Date: 10/21/2021			
Applicant/Owner: Port of Corpus Christi Authority	<u> </u>	State: TX	Sampling Date: 10/21/2021 Sampling Point: UD26BPH_SJI			
Investigator(s): BPH Landform (hillslope, terrace, etc.): Barrier island - hills	Section, Town	ship, Range: N/A				
Landform (hillslope, terrace, etc.); Barrier island - hills	lope Local relief (co	oncave, convex, none); Convex	Slope (%): 10-12			
Subregion (LRR or MLRA); LRR T / MLRA 150B La	t: 27.865123	Long: -97.036364	Datum: NAD83			
Subregion (LRR or MLRA): LRR T / MLRA 150B La Soil Map Unit Name: Beaches		NWI classific	cation: None			
Are climatic / hydrologic conditions on the site typical for this						
			present? Yes X No			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	turally problematic?	(If needed, explain any answe				
SUMMARY OF FINDINGS – Attach site map s						
Hydrophytic Vagetation Present? Vas No	Х					
Hydric Soil Present? Yes No	X Is the S	Sampled Area	X			
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	X	a Wetland? Yes	No <u>^</u>			
Remarks:	•					
The sampled area was determined to no	ot be within a we	tland due to the absen	ce of dominant			
hydrophytic vegetation, hydric soil, and v	wetland hydrolog	βy.				
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is required; check all th	at apply)	Surface Soil	Cracks (B6)			
Surface Water (A1)	auna (B13)	Sparsely Ve	getated Concave Surface (B8)			
High Water Table (A2)	osits (B15) (LRR U)	☐ Drainage Pa	atterns (B10)			
	Sulfide Odor (C1)	<u></u> Moss Trim L	,			
	Rhizospheres along Livi	· · · · · · · · · · · · · · · · · · ·	Water Table (C2)			
	of Reduced Iron (C4)	☐ Crayfish Bur				
	on Reduction in Tilled So k Surface (C7)		isible on Aerial Imagery (C9) Position (D2)			
	plain in Remarks)	=	` ,			
☐ Iron Deposits (B5) ☐ Other (Explain in Remarks) ☐ Shallow Aquitard (D3) ☐ Inundation Visible on Aerial Imagery (B7) ☐ FAC-Neutral Test (D5)						
Water-Stained Leaves (B9)			moss (D8) (LRR T, U)			
Field Observations:						
Surface Water Present? Yes No X Dept						
Water Table Present? Yes No X Dept	h (inches):	_	V			
Saturation Present? Yes No X Dept (includes capillary fringe)	h (inches):	Wetland Hydrology Presei	nt? Yes No X			
Describe Recorded Data (stream gauge, monitoring well, as	erial photos, previous ins	pections), if available:				
Remarks:						
Wetland hydrology was not present.						