Appendix C-7

Hazardous, Toxic, and Radioactive Waste Assessment

Job No. TGL18185

APPENDIX C-7

DRAFT
HAZARDOUS, TOXIC, AND RADIOACTIVE WASTE (HTRW) ASSESSMENT
FOR THE
COASTAL TEXAS PROTECTION AND RESTORATION STUDY

Prepared for:

U.S. Army Corps of Engineers
and
Texas General Land Office

Prepared by:

Freese and Nichols, Inc.
10431 Morado Circle, Suite 300
Austin, Texas 78759

October 2018

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Acronyms and Abbreviations

ACM	asbestos-containing materials
AIRS	Current Emission Inventory Data
AST	Aboveground Storage Tanks
CER	Comprehensive Environmental Response
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CLI	Closed Landfill Inventory
Coastal Texas Study	Coastal Texas Protection and Restoration Study
CONSENT	Superfund Consent Decrees
COR	RCRA Correction Action
CORRACTS	RCRA Corrective Action Sites
CSRM	coastal storm risk management
DC	Drycleaners
DIFR-EIS	Draft Integrated Feasibility Report and Environmental Impact Statement
EPA	U.S. Environmental Protection Agency
ER	ecosystem restoration
ERNS	Emergency Response Notification System
FINDS	Facility Index System
FNI	Freese and Nichols, Inc.
GEN	RCRA Generators
GIWW	Gulf Intracoastal Waterway
GLO	Texas General Land Office
Gulf	Gulf of Mexico
HMIRS	Hazardous Materials Information Reporting System
HTRW	Hazardous, Toxic, and Radioactive Waste
HW	Hazardous Waste
IHW	Industrial and Hazardous Waste Database
LBP	lead-based paint
LF	Permitted Solid Waste Facilities
LPST	Leaking Petroleum Storage Tank
LUST	Leaking Underground Storage Tanks
MINES	Mines Master Index File
MLTS	Material License Tracking System
MM	Multimedia Enforcement Cases
MSHA	Mine Safety and Health Administration
NFRAP	No Further Remedial Action Planned
NPL	National Priority List
NRC	Nuclear Regulatory Commission

NTIS	National Technical Information Service
PADS	PCB Activity Database
PST	Petroleum Storage Tank
RAATS	RCRA Administrative Action Tracking System
RCRA	Resource Conservation and Recovery Act
RCRIS LQG	Large Quantity Generator
RCRIS SQG	Small Quality Generator
RCRIS-TSD	Resource Conservation and Recovery Info. System Treatment, Storage, and Disposal
REC	recognized environmental condition
ROD	Record of Decision
SEMS	Superfund Enterprise Management System
SHWS	State Superfund Registry
SPILLS	Spills Database
SVOC	semivolatile organic compounds
SWLF	Solid Waste Landfill
TCEQ	Texas Commission on Environmental Quality
TPH	total petroleum hydrocarbons
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substance Control Act
TSD	Treatment, Storage and Disposal
USACE	U.S. Army Corps of Engineers
USGS	U.S. Geological Survey
UST	Underground Storage Tanks
VCP	Voluntary Cleanup Program
WASTEMGT	Commercial Haz. and Solid Waste Mgmt. Facilities

1.0 INTRODUCTION

The Texas General Land Office (GLO) authorized Freese and Nichols, Inc. (FNI) to perform a Hazardous, Toxic, and Radioactive Waste (HTRW) Assessment as part of the Draft Integrated Feasibility Report and Environmental Impact Statement (DIFR-EIS) for the Coastal Texas Protection and Restoration Study (Coastal Texas Study). The study area consists of the entire Texas Gulf coast from the mouth of the Sabine River to the mouth of the Rio Grande (Figures 1A–H in Attachment 1). It also includes the Gulf of Mexico (Gulf) and tidal waters, barrier islands, estuaries, coastal wetlands, rivers and streams, and adjacent areas that make up the interrelated ecosystems along the Texas coast. The study area encompasses several counties along the Gulf coast and bayfronts. The Coastal Texas Study project areas are defined as those areas that will be directly affected by construction or operation activities as a result of potential alternative plans of the Coastal Texas Study.

For purposes of the HTRW Assessment, the study area, which covers approximately 19,770 acres, was generally subdivided into the following project areas:

- **Coastal Barrier Coastal Storm Risk Management (CSRM) Project Area** is located in Chambers, Galveston, and Harris counties and includes portions of Bolivar Peninsula and Galveston Island. Additional features of the Coastal Barrier CSRM (Clear Creek Gate Project Area and Dickinson Bayou Gate Project Area) are located at the mouth of Clear Creek and Dickinson Bayou, respectively, along the western boundary of Galveston Bay. The Coastal Barrier CSRM Project Area consists of a mix of heavy industrial areas in and around Galveston. The remainder of the Coastal Barrier CSRM Project Area is mostly undeveloped, with sporadic residential and commercial land use. The Coastal Barrier CSRM Project Area occupies an area of approximately 4,525 acres.
- **Ecosystem Restoration (ER) Measures Project Area** is located on Bolivar Peninsula, Galveston Island, and the Matagorda Bay shoreline, and portions of the Gulf Intracoastal Waterway (GIWW) in Galveston, Brazoria, Matagorda, and Nueces counties. The ER Measures Project Area is predominantly undeveloped beachfront, marsh, and the GIWW. Sporadic residential and industrial land use appears throughout the Galveston, Freeport, and Aransas Pass, Texas, areas. The ER Measures Project Area occupies an area of approximately 14,879 acres.
- **South Padre Island CSRM Project Area** is located along the beachfront of South Padre Island in Cameron County. The South Padre Island CSRM Project Area consists of beachfront land use, with residential and light commercial land use adjacent. The South Padre Island CSRM Project Area occupies an area of approximately 366 acres.

1.1 PURPOSE AND SCOPE

The purpose of the HTRW Assessment is to characterize environmental conditions at a site by evaluating factors, such as land use, site history, obvious indicators of environmental contamination, and the presence of adjacent or nearby properties that could pose environmental concerns. This HTRW Assessment includes a historical review of past land uses and a review of regulatory agency records for the sites and the surrounding areas.

This HTRW Assessment was generally conducted in accordance with the following regulations and standards:

- U.S. Army Corps of Engineers (USACE) Engineer Regulation 1165-2-132, Water Resources Policies and Authorities for Hazardous, Toxic, and Radioactive Waste Guidance for Civil Works Projects (1992),
- American Society of Testing and Materials (ASTM) Standard E1527-13, Standard Practice for Phase I ESAs (2013), and
- Title 40 of the Code of Federal Regulations, Part 312 (40 CFR §312), Standards and Practices for All Appropriate Inquiries, Final Rule.

All historical and regulatory records found are evaluated to determine if a potential recognized environmental condition (REC) exists based on the proximity and elevation of an identified facility in relation to the project area. REC sites are evaluated for their potential to pose constraints or impacts to projects considered as part of the Coastal Texas Study.

The findings in this assessment are based on information obtained from sources listed in the report, which FNI considers to be reliable. However, FNI does not warrant information provided by third parties. Although this study attempted to identify RECs present in the study area based upon information obtained from the sources described in this report, this assessment does not preclude the possibility that additional environmental concerns could be discovered within the study area or individual project areas if additional environmental evaluations are conducted at a future date. FNI was retained to provide a scope of services for an HTRW Assessment, which involved a limited level of investigation.

Nothing in this report shall be deemed to ensure, warrant, or represent that there are not additional environmental issues that might be discovered if further environmental evaluations are undertaken. Conclusions and observations contained in this report are intended for the sole use of the client and their designated recipients. FNI will not release this report to parties other than the client or their designated representatives without prior written consent from the client.

2.0 HISTORICAL RECORDS REVIEW

A historical records review was conducted to determine past and current land use in the study area and individual project areas that may involve HTRW activities. Aerial photographs and historical topographic maps were reviewed to obtain this information).

2.1 AERIAL PHOTOGRAPHS

Aerial photographs spanning several decades were obtained for the study area and the surrounding areas. Aerial photographs can provide information on historical land use activities on or near a project area that could have resulted in potential environmental concerns. These photographs were reviewed concurrently with other historical land use information for each project area. For each project area footprint, commercial and industrial land uses identified in the aerial photographs that may pose environmental concerns, potential RECs, or RECs to the proposed project area are documented. Aerial photograph files are available upon request.

2.1.1 Coastal Barrier CSRM Project Area

Aerial photographs of the Coastal Barrier CSRM Project Area were obtained for several decades from the 1930s to the 2010s. Due to the lateral extent of the project area, the review of aerial photographs for the Coastal Barrier CSRM Project Area was subdivided into the following regional footprints: High Island, Texas, and Chambers County; Bolivar Peninsula; Galveston, Texas; and southern Galveston Island.

2.1.1.1 High Island, Texas, and Chambers County

Aerial photographs of the High Island, Texas, and Chambers County regional footprint were obtained for the following years: 1941, 1953, 1954, 1960, 1961, 1962, 1969, 1974, 1978, 1979, 1982, 1987, 1995, 2004, 2008, 2012, and 2016.

The aerial photographs between the 1940s and 2010s show a predominantly undeveloped project area with the exception of oil and gas exploration and production activities visible within the easternmost portion of the project area near High Island. These activities consist of oil and gas well pads, surface water impoundments, and aboveground storage tanks. To the southwestern extent of the project area, the predominant land uses are residential and light commercial with gradual increases in development over time.

2.1.1.2 Bolivar Peninsula

Aerial photographs of the Bolivar Peninsula regional footprint were obtained for the following years: 1941, 1953, 1954, 1960, 1961, 1962, 1969, 1974, 1978, 1979, 1982, 1987, 1995, 2004, 2008, 2012, and 2016.

Sporadic residential development is visible throughout the project area. The surrounding area appears to be a mix of light commercial and residential land uses and undeveloped land. The southern portion of the project area appears to be undeveloped shoreline and marshland. Beginning in the 1960s and 1970s aerial photographs, oil

and gas activities are visible in the northeastern portion of the project area and appear to include oil and gas well pads and aboveground storage tanks. The aerial photographs between the 1980s and 2010s appear to show a slight decrease in oil and gas activity within the project area.

2.1.1.3 Galveston, Texas

Aerial photographs of the Galveston regional footprint were obtained for the following years: 1941, 1953, 1954, 1960, 1961, 1962, 1969, 1974, 1978, 1979, 1982, 1987, 1995, 2004, 2008, 2012, and 2016.

In early aerial photographs, the project area includes extensive urban development along the GIWW and the Galveston Bay shoreline, which includes heavy commercial and industrial land uses consisting of multiple industrial facilities and warehouses, commercial development, large aboveground storage tanks, and railroad corridors in northern Galveston, Texas. To the south, the project area appears to be predominantly undeveloped. As the aerial photographs become more recent, increases in heavy commercial and industrial land use are shown within northern Galveston. Additional residential development is visible within the project area to the southwest of Galveston.

2.1.1.4 Southern Galveston Island

Aerial photographs of the southern Galveston Island regional footprint were obtained for the following years: 1941, 1953, 1954, 1960, 1961, 1962, 1969, 1974, 1978, 1979, 1982, 1987, 1995, 2004, 2008, 2012, and 2016.

The 1954 aerial photographs show largely undeveloped land within the project area on southern Galveston Island. Intermittent rural residential development is visible throughout the project area. Residential land use appears to increase within the project area over time. In the 2016 aerial photograph, the project area and surrounding areas are predominantly used for residential purposes with some limited commercial land use.

2.1.2 Clear Creek Gate Project Area

Aerial photographs of the Clear Creek Gate Project Area were obtained for the following years: 1953, 1969, 1974, 1978, 1987, 1995, 2004, 2008, 2012, and 2016.

In the 1953 aerial photograph, the Clear Creek Gate Project Area is largely undeveloped, with the exception of a railroad corridor. The surrounding area to the north is predominantly developed for residential purposes or undeveloped. Some commercial and residential land uses are present to the east of the project area. The predominant land use to the south of the project area is residential, with some commercial land use. To the west of the project area, several large warehouses are visible along Clear Creek. Residential land use is prevalent farther to the west of the project area.

The subsequent aerial photographs show no major change to the project area. Increased commercial and residential development has occurred in the surrounding area.

2.1.3 Dickinson Bayou Gate Project Area

Aerial photographs of the Dickinson Bayou Gate Project Area were obtained for the following years: 1955, 1969, 1972, 1979, 1987, 1995, 2004, 2008, 2012, and 2016.

The 1955 aerial photograph shows a predominantly undeveloped project area and surrounding area. In the 1969 and 1972 aerial photographs, land disturbance is visible on the southeastern section of the project area. No other changes to the project area are visible. The surrounding area remains predominantly undeveloped, with minimal residential land use. The most recent aerial photographs (2016) show no major change to the undeveloped project area. To the north of the project area, an increase in commercial land use along Dickinson Bayou is visible. The surrounding area to the east remains undeveloped. The addition of a boat marina is visible to the south of the project area. A slight increase in residential development to the south is visible over time. To the west of the project area, residential development and a couple of warehouses are the only changes visible.

2.1.4 ER Measures Project Area

Aerial photographs of the ER Measures Project Area were obtained for several decades from the 1930s to the 2010s. Due to the lateral extent of the project area, the review of aerial photographs for the ER Measures Project Area was subdivided into the following regional footprints: High Island, Texas, and Chambers County; Bolivar Peninsula; southern Galveston Island; Galveston, Brazoria, and Matagorda counties including the GIWW; Port Aransas; and Port Mansfield. For each project area footprint, commercial and industrial land uses identified in the aerial photographs that may pose environmental concerns, potential RECs, or RECs to the proposed project area are documented.

2.1.4.1 High Island, Texas, and Chambers County

Aerial photographs of the High Island, Texas, and Chambers County regional footprint were obtained for the following years: 1941, 1953, 1956, 1961, 1974, 1982, 1995, 2004, 2008, 2012, and 2016.

The aerial photographs between the 1940s and 2010s show a predominantly undeveloped project area except for oil and gas exploration and production activities visible within the easternmost portion near High Island. These activities consist of oil and gas well pads, surface water impoundments, and aboveground storage tanks. To the southwestern extent of the project area, the predominant land uses are residential and light commercial with gradual increases in development over time.

2.1.4.2 Bolivar Peninsula

Aerial photographs of the Bolivar Peninsula regional footprint were obtained for the following years: 1952, 1954, 1955, 1958, 1969, 1974, 1978, 1987, 1995, 2004, 2008, 2012, and 2016.

Sporadic residential development is visible throughout the project area. The surrounding area appears to be a mix of light commercial and residential land uses and undeveloped land. The southern portion of the project area appears to be undeveloped shoreline and marshland. Beginning in the 1960s and 1970s aerial photographs, oil

and gas activities are visible in the northeastern portion and appear to include oil and gas well pads and aboveground storage tanks. The aerial photographs between the 1980s and 2010s appear to show a slight decrease in oil and gas activity within the project area.

2.1.4.3 Southern Galveston Island

Aerial photographs of the southern Galveston Island regional footprint were obtained for the following years: 1954, 1961, 1962, 1969, 1972, 1974, 1978, 1987, 1995, 2004, 2008, 2012, 2016.

In the aerial photographs, the project area appears to be undeveloped shoreline along the Gulf. No major changes to the project area are visible over time. The surrounding area land use transitions from predominantly undeveloped to mostly residential and light commercial land use over the same period.

2.1.4.4 Galveston, Brazoria, and Matagorda Counties and the GIWW

Aerial photographs of the Galveston, Brazoria, and Matagorda counties regional footprint, including the GIWW, were obtained for the following years: 1939, 1952, 1961, 1974, 1979, 1983, 1995, 2004, 2008, 2012, and 2016.

In the aerial photographs between the 1930s and 2010s, the project area appears to be undeveloped shoreline, marshland, lakes, bays, and rivers along the GIWW. The surrounding area between the 1930s and 2010s is predominantly undeveloped shoreline and marshland, lakes, bays, and rivers. Heavy industrial land use adjacent to the project area appears to increase considerably at the mouth of a large river near the GIWW over time. Numerous aboveground storage tanks and industrial structures are visible to the north and south of the project area. An area of concentrated heavy industrial land use is visible adjacent to the project area; however, a majority of the surrounding area appears to be undeveloped marshland.

2.1.4.5 Matagorda Bay

Aerial photographs of the Matagorda Bay regional footprint were obtained for the following years: 1958, 1964, 1973, 1979, 1981, 1990, 1995, 2004, 2008, 2012, and 2016.

The aerial photographs from the 1950s to the 2010s appear to show an undeveloped project area consisting of shoreline and marshland. The project area is bound by Lavaca, Keller, and Matagorda bays, and marshland. A slight increase in residential land use adjacent to the project area is visible in the aerial photographs over time; however, the surrounding area remains predominantly undeveloped marshland and water.

2.1.4.6 Aransas Pass

Aerial photographs of the Port Aransas regional footprint were obtained for the following years: 1952, 1956, 1969, 1975, 1983, 1995, 2004, 2008, 2012, and 2016.

The aerial photographs from the 1950s to the 2010s show the project area as undeveloped barrier island deposits and water. The project area is bound by the GIWW to the northwest, which is first observed in the 1969 aerial photograph. In the aerial photographs between the 1950s and 2010s, a steady increase in residential, light

commercial, and heavy industrial land uses are visible in the surrounding area to the northwest of the project area. Numerous aboveground storage tanks are visible near the southern portion and heavy industrial activities appear to be concentrated along the northwestern edge of the GIWW.

2.1.4.7 Port Mansfield

Aerial photographs of the Port Mansfield regional footprint were obtained for the following years: 1943, 1955, 1970, 1975, 1980, 1983, 1995, 2004, 2008, 2012, and 2016.

The aerial photographs from the 1940s to the 2010s depict the project area and surrounding area as undeveloped barrier island deposits, shoreline, and water. No major change to the project area is visible in the aerial photographs over time.

2.1.5 South Padre Island CSRM Project Area

Aerial photographs of the South Padre Island CSRM Project Area were obtained for the following years: 1948, 1955, 1962, 1970, 1980, 1983, 1995, 2004, 2008, 2012, and 2016.

The aerial photographs show an undeveloped project area consisting of barrier island deposits, shoreline, and water. No major change to the project area is visible over time. A steady increase in residential and light commercial land uses are visible in the surrounding area over time.

2.2 HISTORICAL TOPOGRAPHIC MAPS

U.S. Geological Survey (USGS) topographic maps covering several decades were obtained for the study area. The study area is depicted on the League City, Texas City, Whites Ranch, Mud Lake, Stanolind Reservoir, High Island, Frozen Point, Caplen, Flake, Port Bolivar, The Jetties, Galveston, Virginia Point, Galveston OE S, Lake Como, Sea Isle, and San Luis Pass, Texas USGS 7.5-minute Series Sheets. These maps were reviewed concurrently with other historical land use information on the site. For each project area footprint, commercial and industrial land uses identified in the topographic maps that may pose environmental concerns, potential RECs, or RECs to the proposed project area are documented. It should be noted that in the most recent topographic maps, a decrease in mapped features is depicted with only city names, roads, fire stations, and bodies of water identified. Historical topographic map files are available upon request.

2.2.1 Coastal Barrier CSRM Project Area

Historical topographic maps of the Coastal Barrier CSRM Project Area were obtained for several decades from the 1930s to the 2010s. Due to the lateral extent of the project area, the review of topographic maps for the Coastal Barrier CSRM Project Area was subdivided into the following regional footprints: High Island, Texas, and Chambers County; Bolivar Peninsula; Galveston, Texas; and southern Galveston Island.

2.2.1.1 High Island, Texas, and Chambers County

Historical topographic maps for the Galveston-Bolivar footprint were obtained for the following years: 1930, 1931, 1932, 1933, 1943, 1949, 1954, 1962, 1963, 1969, 1974, 1993, 1994, 2010, 2013, and 2016.

The topographic maps between the 1930s and 1990s show two aboveground storage tanks and Mud Bayou within the project area. A portion of the Gulf, Colorado, and Santa Fe Railroad also transects the project area to the north of and near High Island. Beginning in 1943, oil and gas activities are depicted within the easternmost portion of the project area. Multiple oil and gas wells, sludge pits, sulphur wells, oil tanks, surface water impoundments, and sludge pits are depicted within the project area to the west of High Island. Numerous pipelines are depicted within and around the project area. On a smaller scale, oil and gas activities are also depicted to the north of East Bay Bayou and the GIWW. A steady increase in residential and light commercial land use is depicted near Gilchrist, Texas, and Rollover Bay. Rollover Pass is depicted near Gilchrist and connects the Gulf to Rollover Bay.

2.2.1.2 Bolivar Peninsula

Historical topographic maps for the Galveston-Bolivar footprint were obtained for the following years: 1930, 1931, 1932, 1933, 1943, 1949, 1954, 1962, 1963, 1969, 1974, 1993, 1994, 2010, 2013, and 2016.

In the early 1930s topographic maps, the project area is largely undeveloped and consists mostly of wooded marsh and swampland. The Gulf, Colorado, and Santa Fe Railroad intersects portions of the project area near Caplen, Texas. The project area is bound by East Bay to the north, Rollover Bay to the east, the Gulf to the south, and Galveston Bay to the west. Numerous pipelines are depicted within and around the project area.

Beginning in 1943, oil and gas activities are depicted within the easternmost portion of the project area near Caplen. Oil and gas activities, consisting of oil and gas wells and tanks, are depicted within the project area to the southwest of Caplen. Between the 1940s and 1990s, oil and gas activities near Caplen steadily increase within the project area. Sporadic residential land use is depicted throughout the project area. The predominant land use within the project area is residential with undeveloped wooded marsh and swampland. The surrounding area consists of undeveloped wooded marsh and swampland, light commercial and residential land use, railroads, and pipelines. Increased commercial development is evident near Port Bolivar to the north of the project area.

2.2.1.3 Galveston, Texas

Historical topographic maps for the Galveston-Bolivar footprint were obtained for the following years: 1930, 1931, 1932, 1933, 1943, 1949, 1954, 1962, 1963, 1969, 1974, 1993, 1994, 2010, 2013, and 2016.

In the 1930, 1931, and 1933 topographic maps, several large structures, aboveground storage tanks, roadways, and the railcar staging area for the Southern Pacific Railroad are depicted within the project area in northern Galveston, Texas. Dense commercial and industrial land use is evident within the project area. The topographic maps between the 1930s and the 1990s depict an increase of commercial and industrial development, including multiple industrial complexes, several aboveground storage tanks, a sewage disposal plant, railroad operations,

and other commercial and industrial land uses within the project area. Numerous pipelines are depicted within and around the project area.

Between the 1930s and 1990s, additional development adjacent to the project area is concentrated in Galveston. Galveston is highly urbanized with residential, commercial, and industrial land uses. The majority of the commercial and industrial land use and port activities are located in northern Galveston, adjacent to the project area, while residential and light commercial land use appears to be located to the south.

2.2.1.4 Southern Galveston Island

Historical topographic maps for the Galveston-Bolivar footprint were obtained for the following years: 1930, 1931, 1932, 1933, 1943, 1949, 1954, 1962, 1963, 1969, 1974, 1993, 1994, 2010, 2013, and 2016.

In the early 1930s topographic maps, the project area appears to be undeveloped wooded marsh and swampland. The project area is bound by West Bay to the north and the Gulf. The city of Galveston, Texas, is depicted to the northeast of the project area.

Between the 1940s and 1990s, the project area remains predominantly undeveloped, with a roadway and some residential development. In the 1960s, an increase in residential and light commercial land uses is depicted throughout the surrounding area that steadily increases until the 1990s. Numerous pipelines are depicted within and around the project area.

2.2.2 Clear Creek Gate Project Area

Historical topographic maps for the Clear Creek Gate footprint were obtained for the following years: 1915, 1925, 1932, 1943, 1955, 1969, 1982, 1995, 2008, 2010, 2013, and 2016.

The 1915 topographic map depicts the San Antonio Railroad and Clear Creek intersecting the project area. The southern portion of the project area appears to be unmapped. Concentrations of residential structures and light commercial land use are depicted in Seabrook, Texas. Seabrook Bridge and Galveston Bay are depicted to the east of the project area. Clear Lake and undeveloped land are depicted to the west of the project area.

In the 1925 and 1932 topographic maps, the southern portion of the project area is mapped; however, no major change is depicted. The surrounding area to the north of the project area appears to show no major change. Residential development is depicted in Kemah and Clear Lake Shores. The surrounding area is predominantly undeveloped land. Starting in 1943, a structure is shown within the project area. The remainder of the project area appears unchanged. As the topographic maps become more recent, an increase in residential, light commercial, and industrial land use is depicted in the surrounding area. By 2008, the surrounding area appears to be developed for predominantly residential and light commercial land uses. Numerous pipelines are depicted within and around the project area.

2.2.3 Dickinson Bayou Gate Project Area

Historical topographic maps for the Dickinson Bayou Gate footprint were obtained for the following years: 1929, 1932, 1943, 1952, 1954, 1969, 1974, 1994, 2008, 2010, 2013, and 2016.

The topographic maps through 1994 depict the Southern Pacific Railroad, a primary highway, and Dickinson Bayou within the project area. Beginning in the 1943 topographic map, oil and gas activities are depicted to the west of the project area along Dickinson Bayou. Gas tanks to the north and oil tanks to the west are visible in the 1954 topographic map. Numerous pipelines are depicted within and around the project area. Between 1929 and 1994, a slight increase in residential land use is depicted. The surrounding area is predominantly undeveloped.

2.2.4 ER Measures Project Area

Historical topographic maps of the ER Measures Project Area were obtained for several decades from the 1930s to the 2010s. Due to the lateral extent of the project area, the review of topographic maps for the ER Measures Project Area was subdivided into the following regional footprints: High Island, Texas, and Chambers County, Texas; Bolivar Peninsula; southern Galveston Island; Galveston, Brazoria, and Matagorda counties including the GIWW; Port Aransas; and Port Mansfield. For each project area footprint, commercial and industrial land uses identified in the topographic maps that may pose environmental concerns, potential RECs, or RECs to the proposed project area are documented.

2.2.4.1 High Island, Texas, and Chambers County

Historical topographic maps for the High Island footprint were obtained for the following years: 1931, 1943, 1962, 1974, 1993, 1994, 2010, 2013, and 2016.

In the 1931 topographic map, the project area is largely undeveloped and consists mostly of wooded marsh and swampland. A portion of the Gulf, Colorado, and Santa Fe Railroad appears to intersect the project area near High Island. The railroad continues southwestward and parallels the project area along the Texas Gulf coast and intersects Gilchrist Station and Rollover. East Bay Bayou appears to intersect the portion of the project area along the Chambers and Galveston county line. High Island is adjacent to the east of the project area. The Gulf and East Bay are depicted to the south and west of the project area, respectively.

The 1943, 1962, 1974, and 1994 topographic maps depict a steady increase in oil and gas activities within the easternmost portion of the project area near High Island. The oil and gas activity consists of multiple oil and gas wells, tanks, sulphur wells, surface impoundments, and sludge pits within the project area to the west of High Island. On a smaller scale, oil and gas activities are depicted north of East Bay Bayou and the GIWW. Numerous pipelines are depicted within and around the project area. Beginning in 1943, oil and gas activities are depicted within the easternmost portion of the project area. The Gulf, Colorado, and Santa Fe Railroad appears to be abandoned in place and then removed from the project area as the topographic maps become more recent. The GIWW appears to have been constructed along East Bay Bayou within the northernmost portion of the project area. A steady increase in residential land use is depicted near Gilchrist and Rollover Bay. Rollover Pass is

depicted near Gilchrist and connects the Gulf to Rollover Bay. In the most recent topographic maps, the predominant land use appears to be undeveloped wooded marsh and swampland and residential land use.

2.2.4.2 Bolivar Peninsula

Historical topographic maps for the Bolivar Peninsula footprint were obtained for the following years: 1930, 1931, 1932, 1933, 1943, 1954, 1962, 1969, 1974, 1994, 2010, 2013, and 2016.

In the early 1930s topographic maps, the project area is largely undeveloped and consists mostly of wooded marsh and swampland. The Gulf, Colorado, and Santa Fe Railroad intersects portions of the project area near Caplen. The project area is bound by East Bay to the north, Rollover Bay to the east, the Gulf to the south, and Galveston Bay to the west. Numerous pipelines are depicted within and around the project area.

In the 1943 topographic map, the GIWW appears to be developed within portions of the project area. Beginning in 1943, oil and gas activities are depicted within the easternmost portion of the project area near Caplen. Oil and gas activities, consisting of oil and gas wells and tanks, are depicted within the project area to the southwest of Caplen. Between the 1940s and 1990s, oil and gas activities near Caplen steadily increase within the project area. Sporadic residential land use is depicted throughout the project area. The predominant land use within the project area is residential with undeveloped wooded marsh and swampland. The surrounding area consists of undeveloped wooded marsh and swampland, light commercial and residential land use, railroads, and pipelines. Increased commercial development is evident near Port Bolivar to the north of the project area.

2.2.4.3 Southern Galveston Island

Historic topographic maps for the southern Galveston Island footprint were obtained for the following years: 1930, 1932, 1933, 1943, 1949, 1954, 1963, 1969, 1974, 1994, 2010, 2013, and 2016.

In the early 1930s topographic maps, the project area appears to be undeveloped wooded marsh and swampland. The project area is bound by West Bay to the north and the Gulf. The city of Galveston, Texas, is depicted to the northeast of the project area.

Between the 1940s and 1990s, the project area remains predominantly undeveloped, with a roadway and some residential development. In the 1960s, an increase in residential and light commercial land uses is depicted throughout the surrounding area that steadily increases until the 1990s. Numerous pipelines are depicted within and around the project area. In the most recent topographic maps, a decrease in mapped features is depicted with only city names, roads, fire stations, and bodies of water identified.

2.2.4.4 Galveston, Brazoria, and Matagorda Counties and GIWW

Historic topographic maps were obtained for the High Island footprint for the following years: 1931, 1962, 1972, 1974, 1995, 2010, 2013, and 2016.

Between the 1930s and 1960s, the project area is predominantly undeveloped marsh and swampland with undeveloped shoreline within the project area along the Gulf. A majority of the project area is bound and partially intersected by the GIWW. The surrounding area consists of predominantly undeveloped marsh and swampland, multiple lakes, bays, and rivers. The city of Freeport is depicted at the mouth of the Old Brazos River adjacent to the project area. Commercial and industrial development in Freeport consists of numerous tanks, chemical plants, and a large port complex. An increase in these heavy industrial activities are identified in the topographic maps between the 1930s and 1960s.

In the 1972, 1974, and 1995 topographic maps, no major change is depicted within the project area. Adjacent to the project area, Freeport remains heavily industrialized at the mouth of the Old Brazos River. A majority of the project area continues to be bordered and partially intersected by the GIWW. The surrounding area consists of predominantly undeveloped marsh and swampland, multiple lakes, bays, and rivers, with concentrated heavy industrial land use near Freeport. Numerous pipelines are depicted within and around the project area.

2.2.4.5 Matagorda Bay

Historic topographic maps for the Matagorda Bay were obtained for the following years: 1951, 1973, 2010, 2013, and 2016.

In the 1951, 1973, and 1995 topographic maps, the project area is largely undeveloped shoreline and swampland. The project area is bound by Keller and Lavaca bays to the north and Matagorda Bay to the south and east. Numerous pipelines are depicted within and around the project area.

2.2.4.6 Aransas Pass

Historic topographic maps for the Aransas Pass were obtained for the following years: 1923, 1954, 1968, 1971, 1975, 2010, 2013, and 2016.

The 1923 topographic map depicts the project area as undeveloped barrier island. The surrounding area is moderately developed with light commercial and residential land use depicted to the north. In the 1954, 1968, 1971, and 1975 topographic maps, an increase in offshore oil and gas activities is depicted within the project area. Numerous pipelines are depicted within and around the project area. The GIWW parallels and intersects portions of the western boundary of the project area. Within the surrounding area, an increase in light commercial and residential land use is depicted to the north. Adjacent to the southwest of the project area, a tank farm and oil and gas activity is depicted near Port Ingleside.

2.2.4.7 Port Mansfield

Historic topographic maps for the Port Mansfield footprint were obtained for the following years: 1951, 1975, 2010, 2012, and 2016.

In the 1951 and 1975 topographic maps, the project area appears to be undeveloped shoreline. A portion of the Port Mansfield Channel is depicted within the project area near Padre Island. The surrounding area appears to be undeveloped shoreline and barrier island deposits.

2.2.5 South Padre Island CSRM Project Area

USGS topographic maps covering several decades were obtained for the South Padre CSRM Island Project Area. The project area is depicted on the Port Isabel NW and Port Isabel, Texas USGS 7.5-minute Series Sheets. Historic topographic maps for the South Padre Island CSRM Project Area were obtained for the following years: 1930, 1955, 1970, 1983, 2010, 2013, and 2016.

In the 1933 and 1955 topographic maps, the project area and surrounding area appear to be undeveloped shoreline. The 1970 and 1983 topographic maps depict undeveloped shoreline and several residential structures within the project area. To the west of the project area, an increase in residential and light commercial land use appears on South Padre Island.

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3.0 GOVERNMENT RECORDS REVIEW

City, State, and Federal environmental database records were reviewed to identify the potential for contamination or other environmental concerns within the study area and specific project areas. Records for nearby properties were also searched to determine possible impacts to the study area and specific project areas from migration of off-site contamination.

3.1 FEDERAL AND STATE RECORDS

A search of environmental records maintained by Federal and State regulatory agencies was conducted to identify known cases involving potential contamination from improper use, storage, disposal, or spills of petroleum products or hazardous substances within the study area, project areas, and in the surrounding areas. Federal and State records were searched using a third-party research company, Banks Environmental Data. Table 3-1 lists Federal and State databases that were reviewed for potential impacts or concerns in relation to the study area, specific project areas, or the surrounding area including facilities that utilize hazardous substances or petroleum products or incidents involving them. The report meets the recommended records search requirements of the ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E1527-13). Complete records review files are available upon request.

Table 3-1
Government Databases Searched

Database	Source	Search Radius (miles)
Federal Databases:		
NPL: National Priority List	EPA	1.25
Delisted NPL	EPA	1.25
CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System	EPA	0.75
CERCLIS-NFRAP: No Further Remedial Action Planned	EPA	0.5
CORRACTS: Resource Conservation and Recovery Act (RCRA) Corrective Action Sites	EPA	1.25
RCRIS TSD: Resource Conservation and Recovery Info. System Treatment, Storage, and Disposal	EPA/NTIS	0.75
RCRIS SQG: Small Quality Generator	EPA	0.5
RCRIS LQG: Large Quantity Generator	EPA	0.5
ERNS: Emergency Response Notification System	EPA/NTIS	Target Property
CONSENT: Superfund Consent Decrees	EPA Regional Offices	1.25
ROD: Record of Decision	NTIS	1.25
FINDS: Facility Index System	EPA	Target Property
HMIRS: Hazardous Materials Information Reporting System	DOT	Target Property
MLTS: Material License Tracking System	NRC	Target Property

Database	Source	Search Radius (miles)
MINES: Mines Master Index File	MSHA	0.5
NPL Liens	EPA	Target Property
PADS: PCB Activity Database	EPA	Target Property
RAATS: RCRA Administrative Action Tracking System	EPA	Target Property
TRIS: Toxic Chemical Release Inventory System	EPA	Target Property
TSCA: Toxic Substance Control Act	EPA	Target Property
Coal Gas: Former Manufactured Gas Sites	MSHA	1.25
State Databases:		
SHWS: State Superfund Registry	TCEQ	1.25
LF: Permitted Solid Waste Facilities	TCEQ	0.75
CLI: Closed Landfill Inventory	TCEQ	0.75
LUST: Leaking Underground Storage Tanks	TCEQ	0.75
UST: Underground Storage Tanks	TCEQ	0.5
AST: Aboveground Storage Tanks	TCEQ	Target Property
SPILLS: Spills Database	TCEQ	Target Property
VCP: Voluntary Cleanup Program	TCEQ	0.75
MM: Multimedia Enforcement Cases	TCEQ	Target Property
IHW: Industrial and Hazardous Waste Database	TCEQ	Target Property
WASTEMGT: Commercial Haz. and Solid Waste Mgmt. Facilities	TCEQ	Target Property
AIRS: Current Emission Inventory Data	TCEQ	Target Property

EPA = U.S. Environmental Protection Agency
MSHA = Mine Safety and Health Administration
NTIS = National Technical Information Service
TCEQ = Texas Commission on Environmental Quality
NRC = Nuclear Regulatory Commission
RCRA = Resource Conservation and Recovery Act

The ASTM standard defines a REC as "the presence or likely presence of any hazardous substance or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment."

In addition, under ASTM E1527-13, a de minimis condition is defined as a release that does not threaten human health or the environment and would not be the subject of an enforcement action. A de minimis condition does not constitute a REC.

Each record was categorized on the basis of its potential concern relative to the study area and individual project areas using the following parameters:

- **Low Environmental Concern** is assigned to facilities that have obtained case closure or for incidents of such scale and/or location that there was low probability to have ever affected the study area. There is a low likelihood that activities occurring at the identified facility have affected or will affect the study area. No REC exists for the study area as a result of the identified facility.

- **Potential REC** is assigned to facilities where assessment is ongoing at the facility or closure has not been obtained for a known release or spill and it has been determined that facility poses an ongoing potential threat to the study area. Potential RECs may be located upgradient of the study area if groundwater contamination occurred, at a higher elevation if a surface spill occurred, or upwind if air emissions are involved.
- **Historical REC** is assigned to facilities where a past release of any hazardous substances or petroleum products has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls.
- **Controlled REC** is assigned to facilities where a REC resulting from a past release of hazardous substances or petroleum products has been addressed to the satisfaction of the applicable regulatory authority (for example, issuance of a no further action letter) or the required controls are in place to allow hazardous substances or petroleum products to remain in place under property restrictions (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).
- **REC** is assigned to facilities that are located within or adjacent to the study area with the known presence or likely presence of any hazardous substance or petroleum products within the study area due to a direct release to the environment, under conditions indicative of a release to the environment, or under conditions that pose a material threat of a future release to the environment.

All regulated facilities and environmental records located within the project area and within one-tenth of a mile (immediately adjacent) of the project area were reviewed in more detail as part of this HTRW Assessment. Regulated facilities and environmental records were identified within the study area in the following environmental databases:

- EPA RCRA Generators (GEN) database of facilities that generate hazardous wastes.
- EPA RCRA Treatment, Storage and Disposal (TSD) database of facilities that handle hazardous wastes.
- EPA RCRA Correction Action (COR) database of hazardous waste generators or handlers that are subject to corrective action activity.
- EPA RCRA database of facilities regulated by the agency but not otherwise classified above.
- EPA Comprehensive Environmental Response (CER) Superfund Enterprise Management System (SEMS) No Further Remedial Action Planned (NFRAP) database of facilities or parcels where no contamination was found, contamination was quickly removed without the site being placed on the National Priority List (NPL), or the contamination was not serious enough to require Federal Superfund action.
- TCEQ Hazardous Waste (HW) database of facilities that store, process or dispose of hazardous wastes.
- TCEQ Solid Waste Landfill (SWLF) database of solid waste facilities that accept various types of municipal solid wastes, special wastes, and/or nonhazardous industrial solid wastes.

- TCEQ Drycleaners (DC) database of facilities with registered dry-cleaning operations including drop locations.
- TCEQ Petroleum Storage Tank (PST) database of facilities with registered above and underground storage tanks.
- TCEQ Leaking Petroleum Storage Tank (LPST) database of facilities with identified leaking storage tanks, equipment failures, releases or compliance issues.
- TCEQ Voluntary Cleanup Program (VCP) database of contaminated facilities in various stages of corrective action to assess and remediate the site.
- TCEQ Municipal Setting Designation (MSD) database of facilities with deed restrictions or institutional controls in place to prevent the installation of water wells on the site due to identified groundwater contamination.

Due to the large number of regulated facilities identified within or immediately adjacent to the study area, only facilities located within the project area or that pose a potential REC, controlled REC, or REC for the study area and/or specific project areas are summarized in Tables 2 through 8 in Attachment 5 and discussed in detail in this HTRW Assessment.

3.2 EMERGENCY RESPONSE RECORDS IN THE STUDY AREA

During the regulatory records search, 1,556 emergency response actions, identified in the Emergency Response Notification System (ERNS) database (i.e., response activities for spills, leaks, and other releases of chemicals to the environment) were identified within or adjacent to the Coastal Barrier CSRM Project Area, 687 emergency response actions were identified within or adjacent to the ER Measures Project Area, and 95 emergency response actions were identified within or adjacent to the South Padre Island CSRM Project Area.

Emergency response actions often represent an acute environmental concern that is resolved by the responding emergency response personnel or shortly thereafter. For these reasons, these recorded locations were determined to pose a low environmental concern to the study area or proposed project areas.

3.2.1 Records in the Coastal Barrier CSRM Project Area

Several environmental records and regulated facilities were identified during the HTRW Assessment within or immediately adjacent to the Coastal Barrier CSRM Project Area that may pose a REC or potential REC to the proposed project alternatives.

3.2.2 High Island, Texas, and Chambers County, Texas

A total of 14 regulated facilities or environmental records were identified within the study area in the vicinity of High Island, Texas and Chambers County including PST and LPST sites, hazardous waste generators and handlers, RCRA corrective action sites, and SWLFs. The record or facility locations are shown in Figure 2A in Attachment 6. A detailed summary of the identified facilities is provided in Table 2 in Attachment 5. One site of interest was determined to be located within the proposed project area:

- The regulated facility, The Corner, located within the project area at 2283 Highway 87 in Gilchrist, Texas, was identified in the TCEQ petroleum storage tank (PST) database. The status of the facility is inactive. The facility had three belowground storage tanks removed from the ground. Two belowground storage tanks were permanently filled in place and remain within the project area. The facility is identified as a potential REC due to the presence of two belowground storage tanks, permanently filled in place, that may contain residual petroleum hydrocarbons.

3.2.2.1 Bolivar Peninsula

A total of 28 regulated facilities or environmental records were identified within the study area in the vicinity of Bolivar Peninsula, including PST and LPST sites, hazardous waste generators and handlers, RCRA corrective action sites, VCP sites, and SWLFs. The record or facility locations are shown on Figure 2B in Attachment 6. A detailed summary of the identified facilities is provided in Table 2 in Attachment 5. Six sites of interest were determined to be located within the project area or immediately adjacent to the proposed projects:

- The regulated facility owned by Floyd E. Hunter and located within the project area at 1505 State Highway 87 in Port Bolivar, Texas, was identified in the TCEQ PST database. The status of the facility is inactive. Three belowground storage tanks, two 2,000 gallon and one 6,000 gallon, are permanently filled in place. The facility is identified as a potential REC due to the presence of three belowground storage tanks, permanently filled in place, that may contain residual petroleum hydrocarbons.
- The regulated facility, South Shore Grocery 87, located within the project area at 1121 State Highway 87 in Crystal Beach, Texas, was identified in the TCEQ PST database. The facility is active and has two 2,000-gallon belowground storage tanks in use. The facility is identified as a potential REC due to the presence of two belowground storage tanks within the project area that likely contain petroleum hydrocarbons.
- The regulated facility, Andrew Johnson Lease, located approximately 0.01 mile to the southeast of the project area at the intersection of Kingston Beach Road and Texas 87 in Port Bolivar, Texas, was identified in the TCEQ VCP database. As of June 2014, the VCP project was closed; however, an institutional control for nonresidential land use is in place. The facility is identified as a controlled REC due to the presence of a land use restriction and institutional control on the property.
- The regulated facility, Anderson Johnson Lease, located approximately 0.01 mile to the southeast of the project area on Texas 108 in Port Bolivar, Texas, was identified in the TCEQ VCP database. As of November 2014, the VCP project was closed; however, an institutional control for nonresidential land use is in place. The facility is identified as a controlled REC due to the presence of a land use restriction and institutional control on the property.
- The regulated facility, Former Fisherman’s Cove, located approximately 0.02 mile to the north of the project area at 706 State Highway 87 in Port Bolivar, Texas, was identified in the TCEQ LPST and PST databases. A leak was discovered on the site in February 2011. Following the leak discovery, three belowground storage tanks were removed from the ground. Case closure was accepted by the TCEQ in December 2012 pending documentation of well plugging. The facility is identified as a potential REC due to the possible presence of residual petroleum hydrocarbons and incomplete project documentation.

- The regulated facility, Peninsula Sanitation Service Inc., located approximately 0.03 mile to the northeast of the project area at 2787 Highway 87 in Crystal Beach, Texas, was identified in the TCEQ PST and SWLF databases. The solid waste facility is active and has one 10,000-gallon aboveground storage tank in use. The facility is identified as a potential REC due to the presence of an active solid waste facility in close proximity to the project area.

3.2.2.2 Galveston, Texas

Over 450 regulated facilities or environmental records were identified within the study area in the vicinity of Galveston, Texas, including drycleaners, PST and LPST sites, hazardous waste generators and handlers, RCRA corrective action sites, VCP sites, institutional control sites, and SWLFs. The record or facility locations are shown on Figures 2E and 2F in Attachment 6. A detailed summary of the identified facilities is provided in Table 3 in Attachment 5. A total of 50 sites were determined to pose a REC, potential REC, or controlled REC for the proposed projects in this area:

- The regulated facility, Star Grocery/Ferry Mobil, located within the project area at 502 Ferry Road in Galveston, Texas, was identified in the TCEQ PST and LPST databases. Two 12,000-gallon belowground storage tanks are in use. A leak was discovered in August 1989, and two 6,000-gallon belowground storage tanks and one 4,000 belowground storage tank were removed from the ground. Former vapor impact, a non-aqueous phase liquid near the utility, and a potential vapor pathway were identified at the facility. Case closure was accepted by the TCEQ in June 2007 pending documentation of well plugging. The facility is identified as a potential REC due to the possible presence of residual petroleum hydrocarbons within the project area and incomplete project documentation.
- The regulated facility, University of Texas Medical – Galveston, located within the project area in Galveston, Texas, was identified in the TCEQ PST and LPST databases. A leak was discovered on site in February 2013. There are no apparent receptors impacted by the leak; however, the assessment was not completed. Case closure was accepted by the TCEQ in September 2013 pending documentation of well plugging. The facility is identified as a potential REC due to the possible presence of residual petroleum hydrocarbons within the project area and incomplete project documentation.
- The regulated facility, SPTCo Galveston Wharves, located within the project area at 4100 Old Port Industrial Boulevard in Galveston, Texas, was identified in the TCEQ VCP database. The 21.8-acre facility is a creosote distribution facility and is currently under assessment for impacts to soil and groundwater by semivolatile organic compounds (SVOCs). The facility is identified as a REC due to active assessment and potential soil and impacts by SVOCs.
- The regulated facility, Port of Galveston, located 0.03 mile to the southwest of the project area at 123 25th Street in Galveston, Texas, was identified in the TCEQ LPST and PST databases. A leak was discovered on the site in November 1997, which impacted a public/domestic groundwater water supply well within a 0.5-mile radius. Five belowground storage tanks were removed from the ground. Case closure was accepted by the TCEQ in June 2004 pending documentation of well plugging. The facility is identified as a potential REC due to the possible presence of residual petroleum hydrocarbons within the project area and incomplete project documentation.

- The regulated facility, Elis Conoco Station, located within the project area at 202 Water Street in Galveston, Texas, was identified in the TCEQ PST and LPST databases. A leak was discovered on the site in February 1996. Four belowground storage tanks were removed from the ground. Two tanks were 8,000 gallons, one was 4,000 gallons, and the other capacity was unknown. Former vapor impact, a non-aqueous phase liquid near the utility, and a potential vapor pathway were identified at the facility. Final closure was approved by the TCEQ in May 2002. The facility is identified as a potential REC due to the possible presence of residual petroleum hydrocarbons.
- The regulated facility, Ferry Road Food Mart, located within the project area at 202 Harborside Drive in Galveston, Texas, was identified in the TCEQ PST database. The facility status is active and has one 24,000-gallon aboveground storage tank that is currently in use. The facility is identified as a potential REC due to the presence of a belowground storage tank within the project area that contains petroleum hydrocarbons.
- The regulated facility, Houston Pilots Pier 9, located within the project area at 906 Harborside Drive in Galveston, Texas, was identified in the TCEQ PST database. This facility is currently active with one 10,000-gallon aboveground diesel storage tank in use. The facility is identified as a potential REC due to the presence of a belowground storage tank within the project area that contains petroleum hydrocarbons.
- The regulated facility, Pierce Distributing, located within the project area at 1202 Water Street in Galveston, Texas, was identified in the TCEQ PST database. This is currently inactive with three aboveground gasoline and diesel storage tanks onsite. The facility is identified as a potential REC due to the presence of three belowground storage tanks within the project area that contain petroleum hydrocarbons.
- The regulated facility located on 7th and Wharf in Galveston, Texas, is registered as Texas Gulf Seafood and is identified in the TCEQ PST database. The facility is located within the project area. The facility is active and contains two 10,000-gallon aboveground diesel storage tanks, one 14,000-gallon aboveground diesel storage tank, and one 25,000-gallon aboveground diesel storage tank. Due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated facility located at Pier 18 at West End in Galveston, Texas, is registered as Galveston Party Boats and is identified in the TCEQ LPST database. This facility is located within the project area. A leak was discovered on December 18, 1998. Three 10,000-gallon belowground storage tanks were removed from the ground. One 12,000-gallon aboveground storage tank remains at the facility. Impact to groundwater and discharges to stormwater pathways. The leak was closed on April 9, 2010. Final concurrence has been issued and the case is closed. Due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated facility located at Pier 18 at West End in Galveston, Texas, is registered as South of Railroad Track and is identified in the TCEQ PST database. This facility is located within the project area and is inactive. Three 10,000-gallon belowground storage tanks were removed from the ground. One 12,000-gallon aboveground storage tank remains at the facility. Due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.

- The regulated facility located at 3927 Wharf Road in Galveston, Texas, is registered as Ports America Texas and is identified in the TCEQ PST database. The facility is located within the project area. The facility is active and contains one 3,000-gallon aboveground diesel storage tank. Due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated facility located at 3100 Wharf Road in Galveston, Texas, is registered as ADM Grain Elevator and is identified in the TCEQ PST database. The facility is located within the project area. The facility is active and has one 2,000-gallon aboveground empty storage tank, which one 8,800-gallon aboveground diesel storage tank and one 20,000-gallon belowground storage tank was removed from the ground. Due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated facility located at Pier 19 in Galveston, Texas, is registered as Pier 19 Marine Fuels and is identified in the TCEQ PST database. The facility is located within the project area. The facility is active and contains one 20,000-gallon aboveground storage tank. Due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated facility located at 19th Street in Galveston, Texas, is registered as Port of Galveston and is identified in the TCEQ LPST, TCEQ HW, and EPA RCRA databases. The facility is inactive and is located within the project area. The leak was discovered on December 18, 1998. It was determined that groundwater was impacted within 500 feet to 0.25 mile to the southwest. Leak closure was completed on August 30, 2005. The final concurrence has been issued, and the case is closed. Due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated facility located at 5711 Harborside Drive in Galveston, Texas, is registered as Galveston Plant and is identified in the TCEQ PST database. The facility is located within the project area. The facility is active and has one 10,000-gallon aboveground storage tank in use. Due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated facility located at 5200 Port Industrial Road in Galveston, Texas, is registered as the Galveston Main WWTP and is identified in the TCEQ PST, TCEQ HW, and EPA RCRA databases. The facility is located within the project area and is currently active with one 8,000-gallon aboveground diesel storage tank and two aboveground diesel storage tanks with unknown capacity. Due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated facility located at 5708 Harborside Drive in Galveston, Texas, is registered as Francis Drilling Fluids and is identified in the TCEQ PST database. The facility is located within the project area and is currently active with one 1,500-gallon aboveground storage tank that is in use. Due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated facility located at 9723 Teichman Road in Galveston, Texas, is registered as T&T Marine Salvage, Inc. and is identified in the EPA RCRS TSD, TCEQ HW, and TCEQ PST databases. The facility is located within the project area and is an active transporter of hazardous

wastes. Additionally, there are two 10,000-gallon aboveground storage tanks in use, and three 1,000-gallon belowground storage tanks that have been removed from the ground. Due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.

- The regulated facility located at 11128 FM 3005 Road in Galveston, Texas, is registered as Former Doans Food Store and Jax and is identified in the TCEQ LPST and PST databases. The facility is inactive and is located within the project area. Two leaks were discovered at the facility, one on December 21, 1993, and one on May 24, 2004. Leak closure for both records was completed on December 14, 2009, and final concurrence was issued; however, the assessments for both leaks remain incomplete. Due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated facility located at 16710 San Luis Pass Road in Jamaica Beach, Texas, is registered as Corner Store 2608 and is identified in the TCEQ PST database. The facility is located within the project area and remains active with three 10,000-gallon belowground storage tanks that are in use. Due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated facility located at 22220 San Luis Pass Road in Galveston, Texas, is registered as Sea Isle Supermarket and is identified in the TCEQ PST database. The facility is located within the project area and remains active with three 10,000-gallon belowground storage tanks that are in use. Due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated facility located at 18th Street in Galveston, Texas, is registered as the Chevron Bulk Plant 165535 and is identified in the TCEQ LPST database. The facility is located 0.02 mile to the southwest of the project area. The leak was discovered on January 31, 1991. No impacts to groundwater or soil were identified. The leak closure date was October 29, 1996. The final concurrence has been issued, and the case has been closed by the TCEQ. However, due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility does pose a potential REC to the project area.
- The regulated facility located at 1802 Water Road in Galveston, Texas, is registered as the Chevron Bulk Plant #60165535 and is identified in the TCEQ IC, TCEQ VCP, and TCEQ HW databases. The facility is located 0.02 mile to the southwest of the project area. Previously, soil and groundwater were impacted by petroleum hydrocarbons, due to a LPST. Currently, a nonresidential and no groundwater-use institutional control is associated with this facility and parcel. The TCEQ accepted the completion of the voluntary cleanup on December 15, 1997. However, due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility does pose a potential REC to the project area.
- The regulated facility located at 5515 Port Industrial Blvd in Galveston, Texas, is registered as the City of Galveston Transfer Station Facility and is identified in the TCEQ SWLF and PST databases. The facility is located 0.03 mile southwest of the project area and is an active solid waste transfer station. Additionally, the facility contains two 6,000 and 10,000-gallon aboveground diesel storage tanks. Due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.

Furthermore, solid waste and debris may be present within the project area, and the type of solid waste is unknown and may threaten the integrity of the soil or groundwater on the project area.

- The regulated parcel located on the north side of Galveston near permit #164 in Galveston, Texas, is registered as the Kelso Tract and is identified in the TCEQ SWLF database. The parcel is located 0.03 mile southeast of the project area. It was identified in 1980 highway maps from the Houston-Galveston Area Council of Governments. No maps, surveys, or metes and bounds for the landfill were identified. The landfill status is closed. Due to the proximity to the project area, solid waste and debris may be present within the project area, and the type of solid waste is unknown and may threaten the integrity of the soil or groundwater within the project area; therefore, this parcel does pose a potential REC to the project area.
- The regulated parcel located between 75th and 77th streets and between Broadway and Industrial Boulevard in Galveston, Texas, is registered as the Yarbrough (UNUM 1050) and the Southern Union Gas (UNUM 1051) and is identified in the TCEQ SWLF database. The facility is located 0.03 mile west of the project area. Both landfills are registered as closed and appear to be adjacent to one another. Both accepted class II waste. Closure for UNUM 1050 was indicated by a City of Galveston letter on May 30. Due to the proximity to the project area, solid waste and debris may be present within the project area. The solid waste has the potential to threaten the integrity of the soil or groundwater within the project area; therefore, this parcel does pose a potential REC to the project area.
- The regulated parcel located at 5800 Harborside Drive in Galveston, Texas, is registered as Harborside Yard and is identified in the TCEQ SWLF database. The facility is an active resource recovery and recycling facility and is located 0.04 mile to the west of the project area. Due to the parcel's proximity to the project area, solid waste and debris may be present within the project area. The type of solid waste is unknown and may threaten the integrity of the soil or groundwater within the project area; therefore, this parcel does pose a potential REC to the project area.
- The regulated facility located at 8115 Harborside Drive in Galveston, Texas, is registered as Galveston Chevron and Island Fuel and is identified in the TCEQ PST and LPST databases. The facility is located 0.04 mile to the southeast of the project area. The facility is active and contains four 7,600-gallon belowground storage tanks in use. On May 22, 2003, a leak was discovered that impacted a domestic water supply well. The leak was closed by the TCEQ on July 7, 2004. Due to the facilities proximity to the project area and the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated parcel located at 500 Barracuda Avenue and 400 Harborside Drive in Galveston, Texas, is identified in the TCEQ VCP database. The 18.29-acre parcel is located 0.05 mile to the northwest of the project area and is utilized as a medical office. Currently, an investigation is underway to assess SVOC and total petroleum hydrocarbon impacts to the soil. Due to the parcel's proximity to the project area and the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated facility located at 206 13th Street in Galveston, Texas, is registered as the University of Texas Medical Branch and is identified in the EPA RCRA COR, TSD, and GEN, and the TCEQ HW databases. The facility is located 0.11 mile south of the project area and is an active generator of hazardous wastes. Numerous violations have been identified and resolved.

Due to the facilities proximity to the project area and the potential to encounter contaminated soil and/or groundwater, this facility does pose a potential REC to the project area.

- The regulated facility located at 301 University Boulevard in Galveston, Texas, is registered as University Texas Medical MB2 and HLA2 and is identified in the TCEQ LPST database. The facility is located 0.11 mile to the southeast of the project area. On October 17, 1989, a leak that impacted groundwater was discovered. That leak was closed on December 16, 1998. A second leak was discovered on March 14, 1990, which also impacted groundwater. This leak was also closed December 16, 1998. Final concurrence is pending documentation of both wells being plugged. Due to the facility's pending closure and the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated parcel located on the northeast corner of 18th Street and Mechanic Street in Galveston, Texas, is registered as Magnolia Homes and is identified in the TCEQ VCP database. The parcel is located 0.11 mile to the southeast of the project area. The 5.84-acre parcel is a vacant lot that is currently under investigation for SVOC, heavy metals, and total petroleum hydrocarbons (TPH) impact to soil and groundwater. Due to the facility's pending closure and the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated parcel located at 2215 Church Street in Galveston, Texas, is registered as the Former Motor Bank and is identified in the TCEQ LPST and VCP databases. The parcel is located 0.32 mile to the south of the project area. A leak was discovered on April 16, 2014, and closed on May 4, 2017. The 0.81-acre parcel was previously used as a motor bank and is currently under investigation for VOC, SVOC, and TPH impacts to the soil and groundwater. No apparent receptors were impacted; however, the assessment remains incomplete. Final concurrence is pending; documentation of well plugging is needed. Due to the facility's pending closure and the potential for residual VOCs, SVOCs, and TPHs to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated parcel located at 3 Lennox Ave in Galveston, Texas, is registered as the Old Municipal Incinerator and is identified in the EPA FB and TCEQ VCP databases. The parcel is located 0.37 mile to the southeast of the project area. This is the former location of the city's municipal incinerator and fire department training site. A Phase 1 Environmental Site Assessment was conducted on April 1, 2003. The status of cleanup is unknown. The parcel is vacant and currently under investigation for SVOCs, heavy metals, and pesticides impacts to soil and groundwater. Due to the facility's pending closure and the potential for residual SVOCs, heavy metals, and pesticides to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated parcel located at 2920 Todd Road in Galveston, Texas, is registered as Gulf Copper & Manufacturing Galveston Division Shipyard and is identified in the EPA RCRA GEN, TCEQ VCP, and TCEQ HW databases. The facility is located 0.4 mile to the north of the project area and is an active site. The cleanup plan for the site has been accepted by the TCEQ; however, a certificate of completion has not been received for the parcel. Due to the pending certificate of completion, the parcel poses a potential REC to the project area.

- The regulated facility located at 21706 Burnet Drive in Galveston, Texas, is registered as West Bay Former Lowery's Landing and is identified in the TCEQ LPST database. The facility is located 0.42 mile northwest of the project area and contains one 10,000-gallon belowground storage tank, which is temporarily out of service, one 6,000-gallon aboveground storage tank of unknown status, and three belowground storage tanks that have been removed from the ground. A leak was discovered on April 20, 1993, and closed on July 1, 2008. No apparent receptors were impacted; however, the assessment is incomplete. Final concurrence is pending documentation of well plugging. Due to the facility's pending closure and the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated facility located at 827 53rd Street in Galveston, Texas, is identified in the TCEQ LPST database. The facility is located 0.42 mile northwest of the project area. A leak was discovered on July 1, 1999, which impacted groundwater. The leak was closed on August 21, 2017; however, final concurrence is pending documentation of well plugging. Due to the facility's pending closure and the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated parcel on the northeast corner of 30th Street and Sealy Avenue in Galveston, Texas, is registered as Cedar Terrace and is identified in the TCEQ VCP database. The parcel is located 0.49 mile to the south of the project area and is currently a vacant lot. An ongoing investigation for SVOCs and heavy metals impacts to soil and groundwater is being conducted. Due to the parcel's pending certificate of completion, the parcel poses a potential REC to the project area.
- The regulated facility located at 3826 Broadway Street in Galveston, Texas, is registered as RT Tire Service Former SS and is identified in the TCEQ LPST database. The facility is located 0.53 mile to the south of the project area. The leak was discovered on June 11, 1991, and closed on May 8, 2008. No apparent threats or impacts to receptors were identified; however, groundwater was impacted. Final concurrence to be issued pending documentation of well plugging. Due to the facility's pending closure and the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated facility located at 3927 Broadway Street in Galveston, Texas, is registered as Diamond Shamrock 353 and is identified in the TCEQ LPST database. The facility is located 0.58 mile to the south of the project area. A leak was discovered on May 15, 1992, and closed on August 5, 1999. Three belowground storage tanks (two 10,000 gallon and one 4,000 gallon) were removed from the ground. No apparent threats or impacts to receptors were identified; however, groundwater was impacted. Final concurrence to be issued pending documentation of well plugging. Due to the facility's pending closure and the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The regulated facility located at 3627 Broadway Street in Galveston, Texas, is registered as Shop N Go and is identified in the TCEQ LPST database. The facility is 0.58 mile to the southeast of the project area. A leak was discovered on August 29, 2001, and closed on June 30, 2010. Four 5,000-gallon belowground storage tanks have been removed from the ground. No apparent threats or impacts to receptors were identified; however, groundwater was impacted. Final concurrence to be issued pending documentation of well plugging. Due to the facility's pending closure and

the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.

- The regulated facility, Seven A M Food Store, located 0.54 mile to the southeast of the project area at 2728 Broadway Street in Galveston, Texas, was identified in the TCEQ LPST database. A leak was discovered on the site in May 1991. Two 6,000-gallon belowground storage tanks remain in use. One 4,000-gallon belowground storage tank is temporarily out of service. The site characterization is incomplete; however, groundwater was impacted. Case closure was accepted by the TCEQ in May 1993 pending documentation of well plugging. The facility is identified as a potential REC due to the possible presence of residual petroleum hydrocarbons and incomplete project documentation.
- The regulated facility, Galveston Environmental Impact, located 0.56 mile to the south of the project area on 29th at Broadway Avenue J in Galveston, Texas, was identified in the TCEQ LPST database. A leak was discovered on the site in April 2015. No apparent threats or impacts to receptors were identified; however, groundwater was impacted. Case closure was accepted by the TCEQ pending documentation of well plugging. The facility is identified as a potential REC due to the possible presence of residual petroleum hydrocarbons and incomplete project documentation.
- The regulated facility, Tony Hone Firestone Tire, located 0.54 mile to the south of the project area at 2302 Broadway Street in Galveston, Texas, was identified in the TCEQ LPST database. A leak was discovered on the site in March 1993. Two belowground storage tanks (1,000 and 550 gallon) have been removed from the ground. A nonpublic and nondomestic water supply was impacted within 0.25 mile. Case closure was accepted by the TCEQ in April 2001 pending documentation of well plugging. The facility is identified as a potential REC due to the possible presence of residual petroleum hydrocarbons and incomplete project documentation.
- The regulated facility, Stop N Go 3540, located at 2525 Broadway Street in Galveston, Texas, was identified in the TCEQ LPST database. A leak was discovered in August 1991. Three 10,000-gallon belowground storage tanks remain in use. No apparent threats or impacts to receptors were identified; however, groundwater was impacted. Final concurrence was accepted in May 2001 pending documentation of well plugging. The facility is identified as a potential REC due to the possible presence of residual petroleum hydrocarbons and incomplete project documentation.

3.2.2.3 Records in the Clear Creek Gate Project Area

Fifty-six regulated facilities or environmental records were identified within the Clear Creek Gate Study Area, including PST and LPST sites, hazardous waste generators and handlers, EPA corrective action sites, and VCP sites. The record or facility locations are shown on Figure 2C in Attachment 6. A detailed summary of the identified facilities is provided in Table 4 in Attachment 5. Two sites of interest were determined to be located within the project area and immediately adjacent to the proposed projects in this area:

- The regulated facility, Three Amigos Fuel Dock and Seabrook Marina, located within the project area at 1900 Shipyard Drive in Seabrook, Texas, was identified in the TCEQ PST and HW databases. The facility is active and has three 4,000-gallon aboveground gasoline storage tanks and one 4,000-gallon aboveground diesel storage tank in use. The facility is identified as a

potential REC due to the presence of four belowground storage tanks within the project area that contain petroleum hydrocarbons.

- The regulated facility, Kemah Townsite – Lots 5 and 6, located approximately 0.05 mile to the southeast of the project area at 101 First Street in Kemah, Texas, was identified in the TCEQ VCP database. A VCP application was received in July 1999 for the presence of heavy metals and polycyclic aromatic hydrocarbons in the soil and groundwater. A certificate of completion was issued by the TCEQ in August 2000. The facility is identified as a potential REC due to the possible presence of residual heavy metals and PAHs within the project area.

3.2.2.4 Records in the Dickinson Bayou Gate Project Area

Twenty-two regulated facilities or environmental records were identified within the Dickinson Bayou Gate Study Area including EPA corrective action sites, PST and LPST sites, hazardous waste generators and handlers, RCRA corrective action sites, and SWLFs. The record or facility locations are shown on Figure 2D in Attachment 6. A detailed summary of the identified facilities is provided in Table 5 in Attachment 5. Two TCEQ PST facilities were identified immediately adjacent to the Dickinson Bayou Gate Project Area. Neither of the identified sites were determined to pose a REC, potential REC, or controlled REC to projects occurring in the Dickinson Bayou Gate Project Area.

3.2.3 Records in the ER Measures Project Area

Several environmental records and regulated facilities were identified during the HTRW Assessment within or immediately adjacent to the ER Measures Project Area and may pose a REC, potential REC, or controlled REC to the proposed project alternatives.

3.2.3.1 High Island, Texas, and Chambers County, Texas

A total of 14 regulated facilities or environmental records were identified within the study area in the vicinity of High Island, Texas, and Chambers County including PST and LPST sites, hazardous waste generators and handlers, RCRA corrective action sites, and SWLFs. Two sites of interest were determined to be located within the proposed project area:

- The parcel located 0.25 mile west of Cemetery on 5th in Galveston, Texas, is registered as High Island and is identified in the TCEQ SWLF database. The facility is a closed landfill and is located within the project area. Due to the parcel's proximity to the project area, solid waste and debris may be present within the project area. The type of solid waste is unknown and may threaten the integrity of the soil or groundwater within the project area; therefore, this parcel does pose a potential REC to the project area.
- The facility located at 1741 Highway 87 in Galveston, Texas, is registered as Gilchrist Service Center and is identified in the TCEQ PST database. The facility is inactive and is located within the project area. Two belowground storage tanks have been removed from the ground. One belowground storage tank has been permanently filled in place. Tank capacities are 1,000, 2,000, and 3,000 gallons. Due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.

3.2.3.2 Bolivar Peninsula

A total of 28 regulated facilities or environmental records were identified within the study area in the vicinity of the Bolivar Peninsula, including PST and LPST sites, hazardous waste generators and handlers, RCRA corrective action sites, VCP sites, and SWLFs. Two sites of interest were determined to be located within the project area and immediately adjacent to the proposed projects in this area:

- The facility located at 2997 State Highway 87 in Crystal Beach, Texas, is registered as Corner Mart and is identified in the TCEQ PST database. The facility is located within the project area and is currently active with five 6,000-gallon belowground storage tanks that remain in use. Due to the potential for residual petroleum hydrocarbons to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The parcel located at 2787 Highway 87 in Crystal Beach, Texas, is registered as Peninsula Sanitation Service Inc. and is located within the project area. The facility is identified in the TCEQ PST and SWLF databases. The facility is active and contains one 10,000-gallon aboveground storage tank in use. Due to the SWLF identified on the parcel and active PST, this facility poses a potential REC to the project area.

3.2.3.3 Galveston, Brazoria, and Matagorda Counties and the GIWW

Over 210 regulated facilities or environmental records were identified within the project footprint in the vicinity of Galveston, Brazoria, and Matagorda counties, including PST and LPST sites, hazardous waste generators and handlers, RCRA corrective action sites, VCP sites, and SWLFs. The record or facility locations are shown on Figures 2F, 2G, and 2H in Attachment 6. A detailed summary of the identified facilities is provided in Table 6 in Attachment 5. Two sites were determined to pose a potential REC for the proposed projects in this area:

- The parcel located 1 mile north of Chinquapin on Chinquapin Road in Chinquapin, Texas, is registered as Chinquapin and is identified in the TCEQ SWLF database. The parcel is located 0.01 mile to the northwest of the project area and is listed as a closed landfill. Historically, municipal waste was accepted with evidence of burning visible. Due to the parcel's proximity to the project area, solid waste and debris may be present within the project area. The type of solid waste is unknown and may threaten the integrity of the soil or groundwater within the project area; therefore, this parcel does pose a potential REC to the project area.
- The parcel located on Brazoria County Road 756 in Freeport, Texas, is registered as GULFCO Marine Maintenance and is identified in the EPA NPL, CER SEMS, IC, EC, and TCEQ NPL databases. This parcel is located 0.18 mile to the northwest of the project area. This parcel is currently on the final NPL for superfund sites. Solid waste and groundwater have been impacted. Current engineering controls consist of flocculation, monitoring, and operation and maintenance. Due to the pending closure and active engineering controls in place, the parcel poses a potential REC and controlled REC to the project area.

3.2.3.4 Matagorda Bay

There were no regulated facilities or environmental records identified within a 0.1-mile buffer of the Matagorda Bay regional footprint except for a few emergency response records. A map for this area is provided as Figure 2I in Attachment 6. No RECs or potential RECs were identified for ER Measure projects in the Matagorda Bay area.

3.2.3.5 Nueces County/Aransas Pass

A total of 61 regulated facilities or environmental records were identified within the project footprint in the vicinity of Nueces County/Aransas Pass including PST and LPST sites, hazardous waste generators and handlers, RCRA corrective action sites, VCP sites, and SWLFs. The record or facility locations are shown on Figures 2J in Attachment 6. A detailed summary of the identified facilities is provided in Table 7 in Attachment 5. Seven sites were determined to pose a potential REC for the proposed projects in this area:

- The facility registered as Tesoro Petroleum, North Bank Terminal, and Advantage Recycling Systems in Ingleside, Texas, is identified in the TCEQ LPST, PST, and EPA RCRA databases. The facility is located 0.1 mile to the west of the project area and is an active refueling facility. A leak was discovered on June 3, 1992, and closed on April 29, 2003. Four aboveground gasoline and diesel storage tanks, 68,381-, 42,573-, 2,000-, and 8,000-gallon tanks, remain in use. One 2,000-gallon belowground storage tank has been removed from the ground. Groundwater is impacted at the facility. Final concurrence is pending documentation of well plugging. Due to the active PST leak investigation and potential petroleum hydrocarbon impacts to the project area, this facility poses a potential REC to the project area.
- The parcel located at 630 East Ransom Road in Aransas Pass, Texas, is registered as the Former LWR Property and is identified in the TCEQ VCP database. The 51.21-acre parcel is currently vacant property and is located 0.33 mile to the northwest of the project area. The facility is under investigation for heavy metals and TPH impacts to soil and groundwater. Due to the parcel's proximity to the project area and the potential for residual petroleum hydrocarbons and heavy metals to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The parcel located at 441 Allen Boulevard in Aransas Pass, Texas, is registered as Coastline Resources Inc. and is identified in the TCEQ VCP database. The 15.8-acre parcel is currently vacant property and is located 0.42 mile to the north of the project area. The facility is under investigation for heavy metals and TPH impacts to soil and groundwater. Due to the parcel's proximity to the project area and the potential for residual petroleum hydrocarbons and heavy metals to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The facility registered as JBS Shrimp Co. in Aransas Pass, Texas, is identified in the TCEQ LPST and PST databases. The facility is located 0.54 mile to the north of the project area and is an active refueling facility. A leak was discovered on February 22, 2005. Seven aboveground diesel storage tanks remain in use. Capacities are three 10,000, one 22,900, one 25,000, one 207,000, and one 250,000 gallons. Groundwater is impacted at the facility. The facility remains in site assessment status. Due to the active PST leak investigation and petroleum hydrocarbon impacts to the project area, this facility poses a potential REC to the project area.

- The parcel located at 269 South Bay Street in Aransas Pass, Texas, is registered as the Former Garrett Oil Company and is identified in the TCEQ LPST database. The parcel is 0.66 mile to the north of the project area. Seven aboveground gasoline, diesel, and kerosene storage tanks were used previously, status unknown. A leak was discovered on August 9, 2002, with no closure status. Impacts to groundwater within 500 feet to 0.25 mile are documented. Due to the active PST leak site assessment and potential petroleum hydrocarbon impacts to the project area, this facility poses a potential REC to the project area.
- The parcel located at 235 East Wilson Avenue in Aransas Pass, Texas, is registered as Street Department and is identified in the TCEQ LPST database. The facility is located 0.74 mile to the northwest of the project area. Two belowground storage tanks have been removed from the ground. A leak was discovered on December 13, 2012, and closed on January 4, 2013. Groundwater was not impacted; however, final concurrence is pending documentation of well plugging. Due to the parcels proximity to the project area and the potential for residual petroleum hydrocarbons and heavy metals to be encountered in soil or groundwater, this facility poses a potential REC to the project area.
- The parcel located at FM 2725 at Bishop Road in Ingleside, Texas, is registered as Falcon Refinery and is identified in the EPA NPL, CER SEMS, and TCEQ NPL databases. The parcel is located 0.75 mile to the northwest of the project area. The parcel is currently on the final Federal and State NPLs. Due to the limited parcel information, active NPL listing, and the proximity to the project area, this parcel poses a potential REC to the project area.

3.2.3.6 Port Mansfield

There were no regulated facilities or environmental records identified within a 0.1-mile buffer of the Port Mansfield regional footprint except for a few emergency response records. A map for this area is provided as Figure 2K in Attachment 6. No RECs or potential RECs were identified for ER Measure projects in the Port Mansfield area.

3.2.4 Records in the South Padre Island CSRM Project Area

A total of 21 environmental records and regulated facilities were identified during the HTRW Assessment within or immediately adjacent to the South Padre Island CSRM Project Area; however, no RECs, potential RECs, or controlled RECs were identified within 0.1 mile of the South Padre Island CSRM Project Area footprint. The identified record or facility locations are shown on Figure 2L in Attachment 6.

3.2.5 Unmapped Sites in the Study Area

While a regulatory records search was conducted as part of this HTRW Assessment, unmapped and unregulated facilities may be located within and adjacent to the study area. In general, a large extent of the Coastal Barrier CSRM, ER Measures, and South Padre Island CSRM Project Areas has been developed for heavy commercial and industrial purposes or used for oil and natural gas production for several decades. It is likely that many unmapped or unregulated facilities generate, use, store, or dispose of regulated substances, such as petroleum hydrocarbons and organic solvents, which may pose a REC to projects within the study area.

3.3 WATER WELL RECORDS

A regulatory records search of water wells within 0.25 mile of the study area was conducted. More-detailed information about these wells is located in Attachment 5 of this report.

3.3.1 Coastal Barrier CSRM Project Area

Several water wells were identified within 0.25 mile of the Coastal Barrier CSRM Project Area including 8 irrigation wells, 14 public supply wells, 11 domestic wells, 5 stock wells, 1 recreational well, 9 unused wells, and 17 other wells with unknown uses. No evidence of contaminated groundwater was identified in the water well records.

3.3.1.1 Clear Creek Gate Project Area

Several water wells were identified within 0.25 mile of the Clear Creek Gate Project Area including one industrial well, two irrigation wells, and two public water supply wells. No evidence of contaminated groundwater was identified in the water well records.

3.3.1.2 Dickinson Bayou Gate Project Area

Several water wells were identified within 0.25 mile of the Dickinson Bayou Gate Project Area including five public supply wells, one industrial well, nine domestic wells, and one unused well. No evidence of contaminated groundwater was identified in the water well records.

3.3.2 ER Measures Project Area

Several water wells were identified within 0.25 mile of the ER Measures Project Area including nine public supply wells, nine domestic wells, two rig supply wells, two irrigation wells, two industrial wells, and two unused wells. No evidence of contaminated groundwater was identified in the water well records.

3.3.3 South Padre Island CSRM Project Area

No water wells were identified within 0.25 mile of the South Padre Island CSRM Project Area.

3.4 OIL AND NATURAL GAS WELL RECORDS

A regulatory records search of oil and natural gas wells within 0.25 mile of the study area was conducted. Oil and natural gas wells along with the accompanying tank batteries, compressor stations, and other equipment are potential sources of petroleum hydrocarbon releases into the environment. More-detailed information about these wells is located in Attachment 5 of this report.

3.4.1 Coastal Barrier CSRM Project Area

Several oil and natural gas wells were identified within 0.25 mile of the Coastal Barrier CSRM Project Area including 116 oil or natural gas wells, 8 injection/disposal wells, 28 permitted locations, 200 plugged wells, 4 abandoned locations, 87 dry holes, and 150 sidetrack surface locations. While well records were identified throughout most of the project area, a larger number of wells were identified in the area surrounding High Island and Bolivar Peninsula.

3.4.1.1 Clear Creek Gate Project Area

One nonproductive oil/natural gas well (a dry hole) was identified within 0.25 mile of the Clear Creek Gate Project Area.

3.4.1.2 Dickinson Bayou Gate Project Area

No oil or natural gas wells were identified within 0.25 mile of the Dickinson Bayou Gate Project Area.

3.4.2 ER Measures Project Area

Several oil and natural gas wells were identified within 0.25 mile of the ER Measures Project Area including 20 oil or natural gas wells, 3 injection/disposal wells, 5 permitted locations, 84 plugged wells, 6 abandoned locations, 55 dry holes, and 77 sidetrack surface locations. While well records were identified throughout most of the project area, a larger number of wells were identified in the area surrounding Matagorda Bay.

3.4.3 South Padre Island CSRM Project Area

No oil or natural gas wells were identified within 0.25 mile of the South Padre Island CSRM Project Area.

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4.0 FINDINGS

As the majority of the historical and current land uses within and adjacent to the Coastal Barrier CSRM, ER Measures, and South Padre Island CSRM Project Areas include commercial and industrial development or oil and gas production, petroleum hydrocarbons and/or organic chemicals, such as solvents, may have been generated, used, and/or stored within or adjacent to much of the project area. While a regulatory records search was conducted as part of this HTRW Assessment, unregulated facilities may also be located within and adjacent to the project area where large commercial and industrial complexes may include additional potential sources of petroleum hydrocarbons, organic chemicals, and regulated substances.

As a note, several structures are intersected by the proposed Coastal Barrier CSRM, ER Measures, and South Padre Island CSRM Project Areas that, due to their approximate age, may contain asbestos-containing materials (ACMs) and/or lead-based paint (LBP). ACMs were widely used in buildings constructed in the United States prior to 1987. Lead is a toxic metal that was used in many residential products until 1978. A detailed ACM or LBP survey or study was not conducted as part of this HTRW Assessment but could pose a REC to the proposed projects during construction.

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5.0 REFERENCES

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———. 1968. 7.5' Series Topographic Map – Port Ingleside, Texas Quadrangle.

———. 1969. 7.5' Series Topographic Map – Caplen, Flake, Frozen Point, Galveston, Galveston OE S, Hitchcock, Lake Como, Port Bolivar, Sea Isle, The Jetties, Virginia Point, Texas Quadrangle.

———. 1970. 7.5' Series Topographic Map – Port Isabel, Port Isabel NW, Texas Quadrangle.

———. 1971. 7.5' Series Topographic Map – Aransas Pass, Estes, Texas Quadrangle.

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———. 1973. 7.5' Series Topographic Map – Keller Bay, Port Lavaca East, Port O'Connor, Texas Quadrangle.

———. 1974. 7.5' Series Topographic Map – Caplen, Cedar Lakes East, Cedar Lakes West, Christmas Point, Christmas Point OE S, Flake, Freeport, Frozen Point, Galveston, Galveston OE S, High Island, Hitchcock, Hoskins Mound, Jones Creek, Lake Como, Mud Lake, Oyster Creek, Port Bolivar, San Luis Pass, Sea Isle, Stanolind Reservoir, The Jetties, Virginia Point, Whites Ranch, Texas Quadrangle.

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———. 2008. 7.5' Series Topographic Map – Virginia Point, Texas Quadrangle.

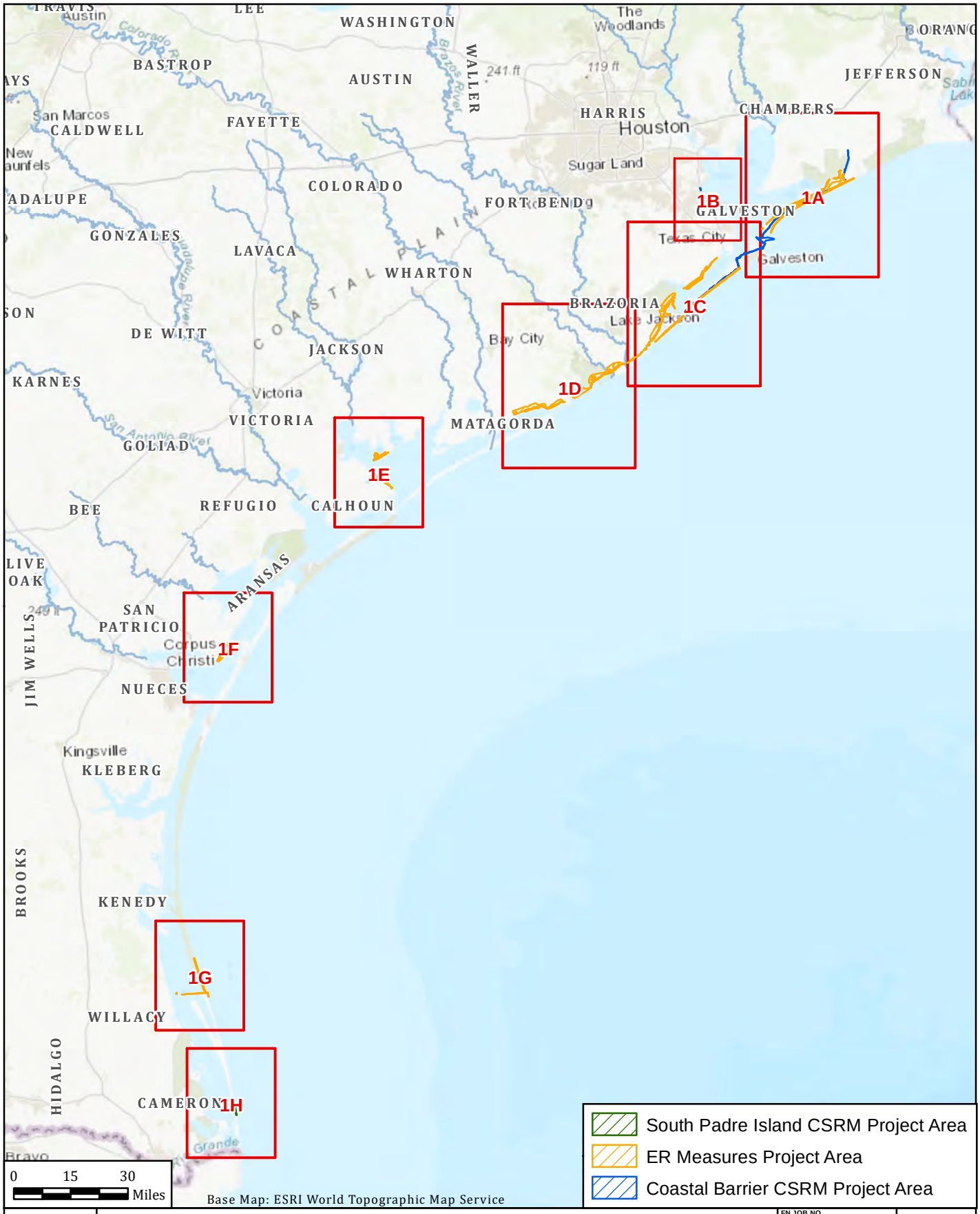
———. 2010. 7.5’ Series Topographic Map – Aransas Pass, Brown Cedar Cut, Caplen, Cedar Lakes East, Cedar Lakes West, Christmas Point, Christmas Point OE S, Dressing Point, Estes, Flake, Freeport, Frozen Point, Galveston, Galveston OE S, High Island, Hitchcock, Hoskins Mound, Jones Creek, Keller Bay, Lake Austin, Lake Como, Matagorda, Mud Lake, Oyster Creek, Port Bolivar, Port Ingleside, Port Isabel, Port Isabel NW, Port Lavaca East, Port Mansfield, Port O’Connor, San Luis Pass, Sargent, Sea Isle, South of Potrero Lopeno NE, South of Potrero Lopeno SE, Stanolind Reservoir, The Jetties, Virginia Point, Whites Ranch, Texas Quadrangle.

———. 2013. 7.5’ Series Topographic Map – Aransas Pass, Brown Cedar Cut, Caplen, Cedar Lakes East, Cedar Lakes West, Christmas Point, Christmas Point OE S, Dressing Point, Estes, Flake, Freeport, Frozen Point, Galveston, Galveston OE S, High Island, Hitchcock, Hoskins Mound, Jones Creek, Keller Bay, Lake Austin, Lake Como, Matagorda, Mud Lake, Oyster Creek, Port Bolivar, Port Ingleside, Port Isabel, Port Isabel NW, Port Lavaca East, Port Mansfield, Port O’Connor, San Luis Pass, Sargent, Sea Isle, South of Potrero Lopeno NE, South of Potrero Lopeno SE, Stanolind Reservoir, The Jetties, Virginia Point, Whites Ranch, Texas Quadrangle.

———. 2016. 7.5’ Series Topographic Map – Aransas Pass, Brown Cedar Cut, Caplen, Cedar Lakes East, Cedar Lakes West, Christmas Point, Christmas Point OE S, Dressing Point, Estes, Flake, Freeport, Frozen Point, Galveston, Galveston OE S, High Island, Hitchcock, Hoskins Mound, Jones Creek, Keller Bay, Lake Austin, Lake Como, Matagorda, Mud Lake, Oyster Creek, Port Bolivar, Port Ingleside, Port Isabel, Port Isabel NW, Port Lavaca East, Port Mansfield, Port O’Connor, San Luis Pass, Sargent, Sea Isle, South of Potrero Lopeno NE, South of Potrero Lopeno SE, Stanolind Reservoir, The Jetties, Virginia Point, Whites Ranch, Texas Quadrangle.

Attachment 1

Project Location Maps



USACE COASTAL TEXAS
PROTECTION AND RESTORATION STUDY

HTRW Assessment
Project Location Map Overview

FN JOB NO	TGL18185
FILE NAME	HTRW_Assessment_Location Maps.mxd
DATE	8/6/2018
SCALE	
DESIGNED	SSJ
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FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet

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HTRW Assessment
Project Location Map

FN JOB NO	TGL18185
FILE NAME	HTRW_Assessment_Location Maps.mxd
DATE	8/6/2018
SCALE	
DESIGNED	SSJ
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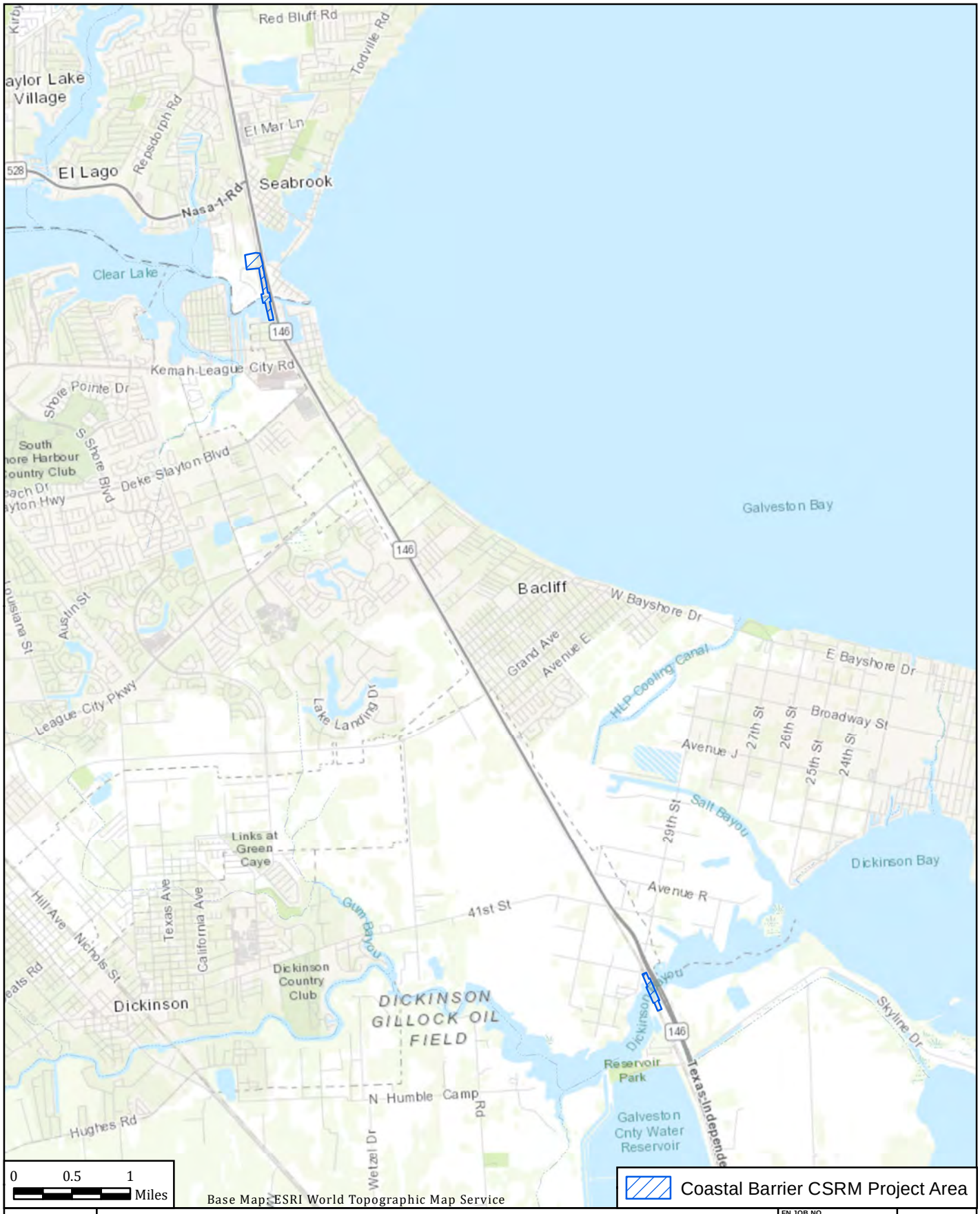
FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet



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USACE COASTAL TEXAS
PROTECTION AND RESTORATION STUDY

HTRW Assessment
Project Location Map

FN JOB NO	TGL18185
FILE NAME	HTRW_Assessment_Location Maps.mxd
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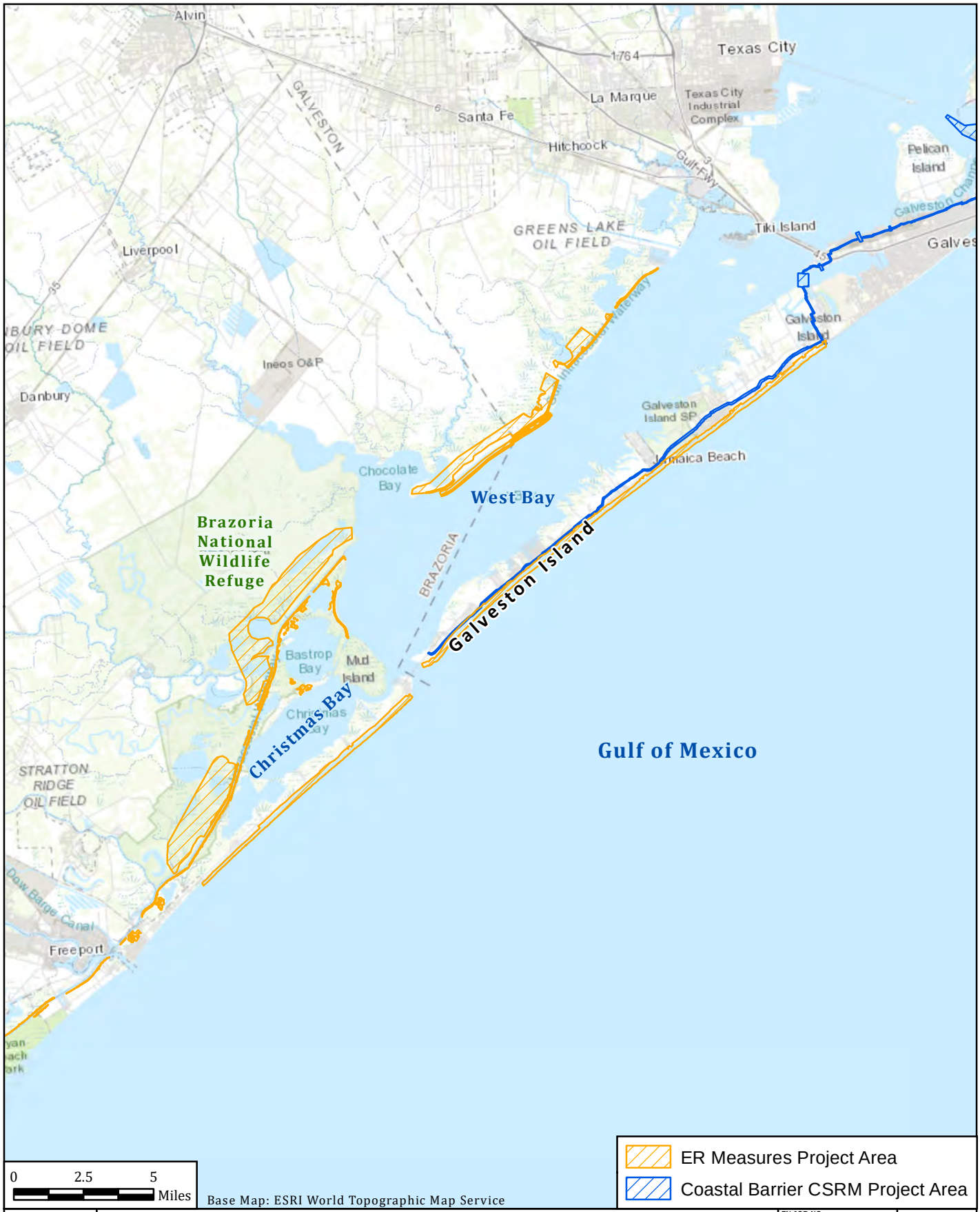
FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet



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USACE COASTAL TEXAS
PROTECTION AND RESTORATION STUDY

HTRW Assessment
Project Location Map

FN JOB NO	TGL18185
FILE NAME	HTRW_Assessment_Location Maps.mxd
DATE	8/6/2018
SCALE	
DESIGNED	SSJ
DRAFTED	02213

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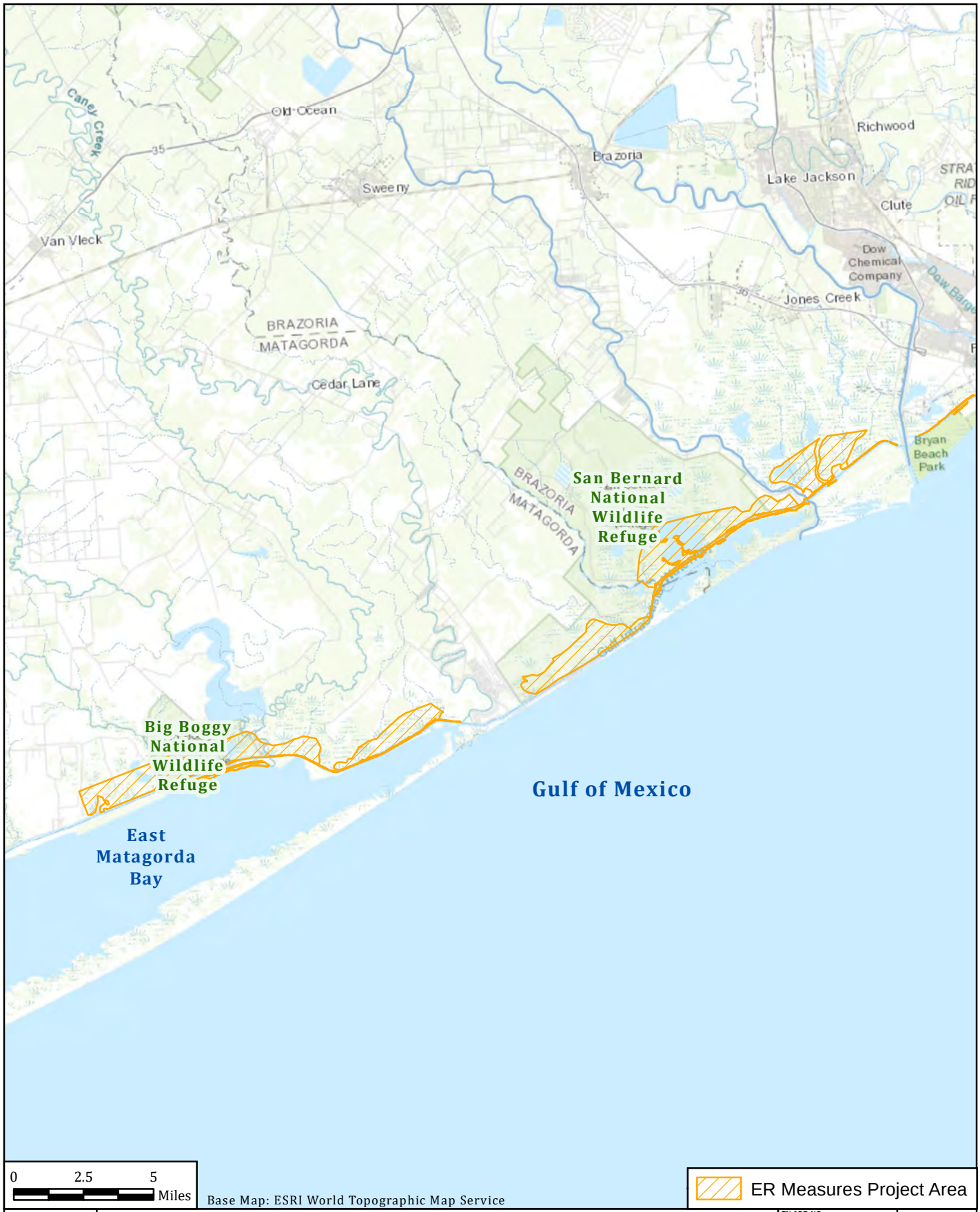
FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet



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USACE COASTAL TEXAS
PROTECTION AND RESTORATION STUDY

HTRW Assessment Project Location Map

FN JOB NO	TGL18185
FILE NAME	HTRW_Assessment_Location Maps.mxd
DATE	8/6/2018
SCALE	
DESIGNED	SSJ
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FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet

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USACE COASTAL TEXAS
PROTECTION AND RESTORATION STUDY

HTRW Assessment
Project Location Map

FN JOB NO	TGL18185
FILE NAME	HTRW_Assessment_Location Maps.mxd
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FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet

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USACE COASTAL TEXAS
PROTECTION AND RESTORATION STUDY

HTRW Assessment
Project Location Map

FN JOB NO	TGL18185
FILE NAME	HTRW_Assessment_Location Maps.mxd
DATE	8/6/2018
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FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet

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USACE COASTAL TEXAS
PROTECTION AND RESTORATION STUDY

HTRW Assessment
Project Location Map

FN JOB NO	TGL18185
FILE NAME	HTRW_Assessment_Location Maps.mxd
DATE	8/6/2018
SCALE	
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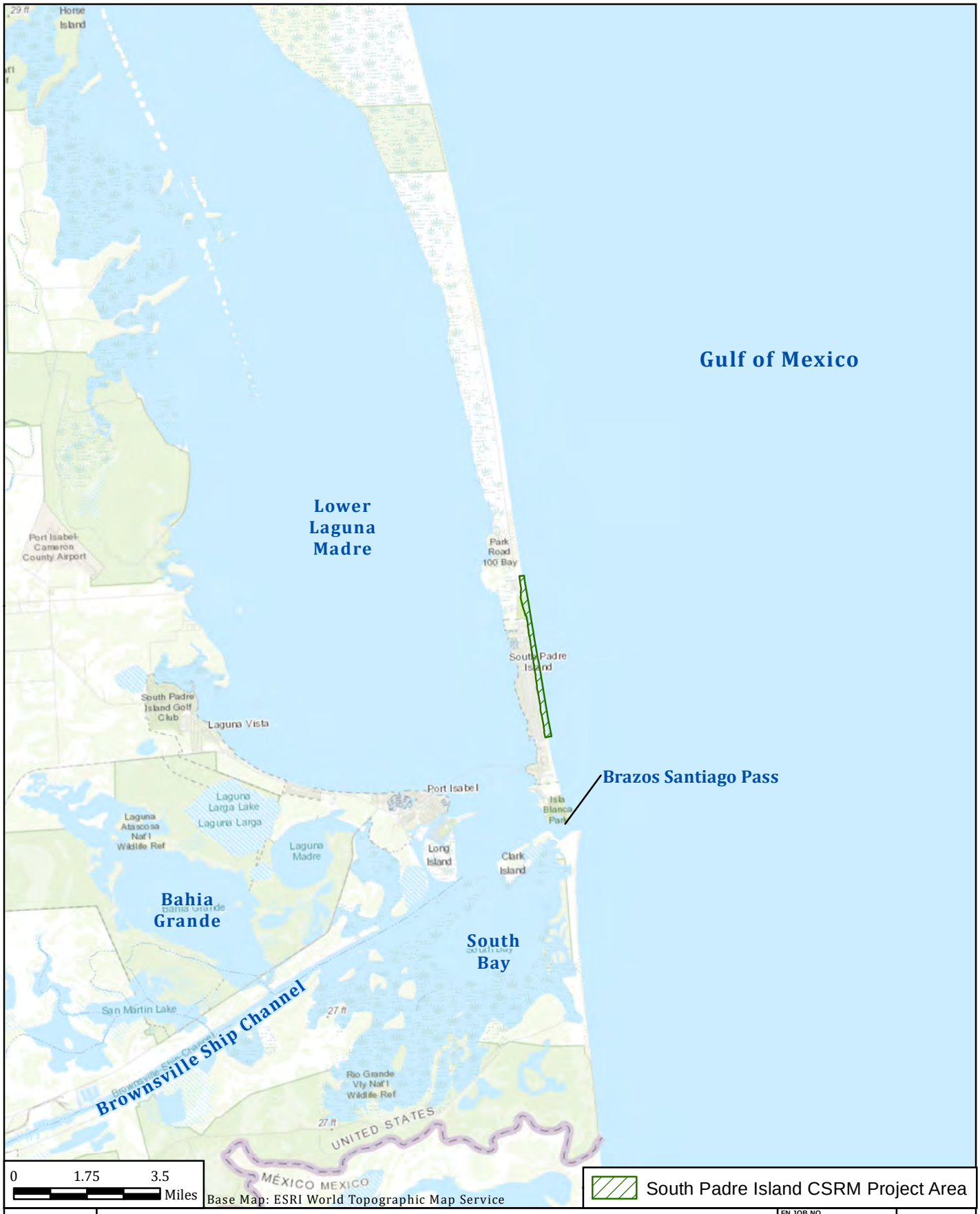
FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet



USACE COASTAL TEXAS
PROTECTION AND RESTORATION STUDY

HTRW Assessment
Project Location Map

FN JOB NO	TGL18185
FILE NAME	HTRW_Assessment_Location Maps.mxd
DATE	8/6/2018
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FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet

Attachment 2

Identified Properties in the Government Records

Table 2. Adjacent Properties Identified in the Government Records Review
Coastal Barrier CSRM Project Area – High Island, Chambers County, and Bolivar Peninsula

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
The Corner 2283 Highway 87, Gilchrist, Texas 77617	Within Project Area Elevation: 4.98 feet	Potential REC	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Three belowground storage tanks removed from ground Two belowground storage tanks permanently filled in place Capacity: 1,000 gallons
Julies Corner Market & Deli 1990 State Highway 87 Gilchrist, Texas 77617	Within Project Area Elevation: 4.98 feet	Historical REC	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Three belowground storage tanks removed from ground Capacity: one 4,000 and two 6,000-gallon tanks
Gulf Coast Contracting 2155 State Highway 87 Crystal Beach, Texas 77650	Within Project Area Elevation: 6.66 feet	Historical REC	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Two belowground storage tanks removed from ground Capacity: 2,000 and 3,000-gallon tanks
City of Crystal Beach 1811 State Highway 87 Port Bolivar, Texas 77650	Within Project Area Elevation: 5.35 feet	Historical REC	HW	**Hazardous Waste** Generator of hazardous waste Status: Inactive
Kwik Pantry 203 Highway 87 & Monkhouse Crystal Beach, Texas 77650	Within Project Area Elevation: 6.37 feet	Historical REC	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Three belowground storage tanks removed from ground Capacity: two 4,000 and one 8,000-gallon tanks
Floyd E Hunter 1505 State Highway 87 Port Bolivar, Texas 77650	Within Project Area Elevation: 7.2 feet	Potential REC	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Three belowground storage tanks permanently filled in place Capacity: two 2,000 and one 6,000-gallon tanks
South Shore Grocery 87 1121 State Highway 87 Crystal Beach, Texas 77650	Within Project Area Elevation: 7.97 feet	Potential REC	PST	**Petroleum Storage Tank Facility** Facility Status: Active Two belowground storage tanks in use
Swedes Grocers 1780 State Highway 87 Crystal Beach, Texas 77650	0.01 mile East Elevation: 5.13 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active Three belowground storage tanks in use Capacity: one 6,000 gallons and two 4,000 gallons Four storage tanks removed from ground Capacities 550, 1,000, and two 2,000-gallon tanks
Sunrise Grocery 6 1995 HWY 87 Gilchrist, Texas 77665	0.01 mile West Elevation: 4.98 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Three belowground storage tanks removed from ground Capacity: 6,000 gallons

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Andrew Johnson Lease Intersection of Kingston Beach Road and TX-87 Port Bolivar, Texas	0.01 mile Southeast Elevation: 4.99 feet	Historical REC Controlled REC	VCP	**Voluntary Cleanup Program** Status: Closed 6/4/2014 Acres: 5 Institutional Controls: Residential
Anderson Johnson Lease Pipeline Removal Area TX-108 Bolivar, Texas 77650	0.01 mile Southeast Elevation: 4.99 feet	Historical REC Controlled REC	VCP	**Voluntary Cleanup Program** Status: Closed 11/20/2014 Acres: 5 Institutional Controls: Residential
Former Fisherman's Cove 706 SH 87 Port Bolivar, Texas 77650	0.02 mile North Elevation: 4.93 feet	Potential REC	LPST PST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 2/10/2011 Impact to groundwater discharges to southwest used by human and endangered species <500 feet Three belowground storage tanks removed from ground Capacity: 3,000, 5,000, and 6,000 gallons Final concurrence pending documentation of well plugging Leak Closure Date: 12/5/2012
GCM The Big Store 2385 State Highway 87 Crystal Beach, Texas 77650	0.02 mile West Elevation: 6.12 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active Three belowground storage tanks in use Capacity: Two 8,000 and one 6,000-gallon tanks
Family Dollar #8939 2275 Highway 87, STE 13 Crystal Beach, Texas 77650	0.03 mile Northeast Elevation: 6 feet	Low	RCRA GEN	**Resource Conservation and Recovery Act Generator** Active Site - Handler Activities Conditionally exempt small quantity generator
Gilchrist Service Center 1741 HWY 87 Gilchrist, Texas 77617	0.03 mile Southwest Elevation: 4.98 feet	Historical REC	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Two belowground storage tanks removed from ground One belowground storage tank permanently filled in place Capacity: 1,000, 2,000, and 3,000-gallon tank
Peninsula Sanitation Service Inc. 2787 Highway 87 Crystal Beach, Texas 77650	0.03 mile Northeast Elevation: 5.45 feet	Potential REC	SWLF PST	**Solid Waste Landfill** Facility Status: Active **Petroleum Storage Tank Facility** Facility Status: Active One aboveground storage tank in use Capacity: 10,000 gallons
TJS Grocery Mart 1366 South State Highway 87 Crystal Beach, Texas 77650	0.05 mile Southwest Elevation: 7.86 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active Four belowground storage tanks in use Capacity: 4,000 gallons

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Corner Mart 2997 State Highway 87 Crystal Beach, Texas 77650	0.05 mile Northeast Elevation: 4.68 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active Five belowground storage tanks in use Capacity: 6,000 gallons
High Island Petrochemicals LLC 2500 Highway 124 High Island, Texas 77623	0.06 mile East Elevation: 5.01 feet	Low	RCRA COR RCRA TSD RCRA GEN HW	**Resource Conservation and Recovery Act Corrective Action** **Resource Conservation and Recovery Act Transport, Storage, and Disposal** **Resource Conservation and Recovery Act Generator** Active Site - Handler Activities Conditionally exempt small quantity generator Multiple violations found and resolved **Hazardous Waste** Generator of hazardous waste Status: Active Refer to page 123 of northern regulatory report for waste description
Smith Service 212 Pierce Street High Island, Texas 77623	0.07 mile Southeast Elevation: 8.34 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive One belowground storage tank removed from ground Capacity: 2,000 gallons

Table 3. Adjacent Properties Identified in the Government Records Review
Coastal Barrier CSRM Project Area – Galveston Island, Texas

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Star Grocery/Ferry Mobil 502 Ferry Road Galveston, Texas 77550	Within Project Area Elevation: 5.09 feet	REC	LPST PST	**Leaking Petroleum Storage Tank/Petroleum Storage Tank Facility** Facility Status: Active Leak Discovery Date: 8/10/1989 Former vapor impact/Non-aqueous phase liquid near utility, potential vapor pathway Two belowground storage tanks in use Capacity/Contents: 12,000 gallons/unknown Three belowground storage tanks removed from ground Capacity/Contents: Two 6,000-gallon tanks and one 4,000-gallon tank/unknown Leak Closure Date: 6/4/2007 Final concurrence pending documentation of well plugging
Elis Conoco Station 202 Water Street Galveston, Texas 77550	Within Project Area Elevation: 14.98 feet	Potential REC	LPST PST	**Leaking Petroleum Storage Tank/Petroleum Storage Tank Facility** Facility Status: Inactive Leak Discovery Date: 2/20/1996 Former vapor impact/Non-aqueous phase liquid near utility, potential vapor pathway Four belowground storage tanks removed from ground Capacity/Contents: Two 8,000-gallon tanks, one 4,000-gallon tank, and one unknown/unknown Leak Closure Date: 5/2/2002 Final concurrence issued; case closed
Ferry Road Food Mart 202 Harborside Drive Galveston, Texas 77550	Within Project Area Elevation: 14.94 feet	Potential REC	PST	**Petroleum Storage Tank Facility** Facility Status: Active One belowground storage tank in use Capacity/Contents: 24,000 gallons/unknown
Houston Pilots Pier 9 906 Harborside Drive Galveston, Texas 77550	Within Project Area Elevation: 4.57 feet	Potential REC	PST	**Petroleum Storage Tank Facility** Facility Status: Active One aboveground storage tank in use Capacity/Contents: 10,000 gallons/diesel
NL Petroleum Services 9th & Wharf Galveston, Texas	Within Project Area Elevation: 4.94 feet	Historical REC	HW RCRA	**State/Tribal Hazardous Waste** Status: Inactive Facility Type: Generator **Resource Conservation and Recovery Act** Not a generator

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
BJ Services Galveston Station Grasso Docks Pier 9 Galveston, Texas	Within Project Area Elevation: 4.99 feet	Historical REC	HW RCRA	**State/Tribal Hazardous Waste** Status: Inactive Facility Type: Generator **Resource Conservation and Recovery Act** Not a generator
Dowell Schlumberger 9 Pier Galveston, Texas 77550	Within Project Area Elevation: 4.99 feet	Historical REC	HW	**State/Tribal Hazardous Waste** Status: Inactive Facility Type: Generator
University of Texas Medical Galveston, Texas 77550	Within Project Area Elevation: 5 feet	REC	LPST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 2/5/2013 Assessment incomplete, no apparent receptors impacted Leak Closure Date: 9/9/2013 Final concurrence pending documentation of well plugging
Pierce Distributing 1202 Water Galveston, Texas 77550	Within Project Area Elevation: 5.99 feet	Potential REC	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Three unused aboveground storage tanks Capacity/Contents: Two 8,800-gallon tanks and one 2,000-gallon tank/diesel and gasoline
Texas Gulf Seafood 7th and Wharf Galveston, Texas 77550	Within Project Area Elevation: 6.02 feet	Potential REC	PST	**Petroleum Storage Tank Facility** Facility Status: Active Four aboveground storage tanks in use Capacity/Contents: 10,000, 14,000, 25,000 gallons/diesel
Galveston Party Boats Pier 18 at West End Galveston, Texas 77550	Within Project Area Elevation: 6.13 ft	Potential REC	LPST	**Leaking Petroleum Storage Tank** Leak Discovery Date: 12/18/1998 Impact to groundwater discharges to stormwater used by human, endangered species <500 feet One aboveground storage tank Capacity/Contents: 12,000-gallon/unknown Three storage tanks removed from ground Capacity/Contents: 10,000-gallon/unknown Leak Closure Date: 4/9/2010 Final concurrence issued; case closed
Del Monte Fresh Produce 18 Pier Galveston, Texas 77550	Within Project Area Elevation: 6.13 feet	Historical REC	HW	**State/Tribal Hazardous Waste** Status: Inactive Facility Type: Generator

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
South of Railroad Track Pier 18 at West End Galveston, TX 77550	Within Project Area Elevation: 6.13 feet	Potential REC	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive, fleet refueling One unused aboveground storage tank Capacity/Contents: 12,000 gallons/unknown Three belowground storage tanks removed from ground Capacity/Contents: 10,000 gallons/unknown
Ports America Texas 3927 Wharf Galveston, Texas 77550	Within Project Area Elevation: 5.89 feet	Potential REC	PST	**Petroleum Storage Tank Facility** Facility Status: Active One aboveground storage tank in use Capacity/Contents: 3,000 gallons/diesel
ADM Grain Elevator 3100 Wharf Road Galveston, Texas 77550	Within Project Area Elevation: 5.89 feet	Potential REC	PST	**Petroleum Storage Tank Facility** Facility Status: Active Two aboveground storage tanks in use Capacity/Contents: 2,000 and 8,800 gallons/empty and diesel One belowground storage tank removed from ground Capacity/Contents: 20,000 gallons/unknown
Pier 19 Marine Fuels Pier 19 Galveston, Texas 77550	Within Project Area Elevation: 6.16 feet	Potential REC	PST	**Petroleum Storage Tank Facility** Facility Status: Active One aboveground storage tank Capacity/Contents: 20,000-gallons/unknown
Port of Galveston 19th Street Galveston, Texas 77550	Within Project Area Elevation: 6.16 feet	Potential REC	LPST HW RCRA	**Leaking Petroleum Storage Tank** Leak Discovery Date: 12/18/1998 Groundwater impacted within 500 feet - 0.25 mile to southwest, human and endangered species use Leak Closure Date: 8/30/2005 Final concurrence issued, case closed **State/Tribal Hazardous Waste** Status: Inactive Facility Type: Generator See page 1,036 in Galveston-Southern Section ES-126438 for waste descriptions. **Resource Conservation and Recovery Act** Not a generator See pages 1,131 and 1,132 in Galveston-Southern Section ES-126438 for waste descriptions.
Southeast Packing Pier 22 Galveston, Texas 77553	Within Project Area Elevation: 6.26 feet	Historical REC	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Two belowground storage tanks removed from ground Capacity/Contents: Two 6,000-gallon tanks/unknown

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Farmer Refrigerated Food Storage Facility 101 22nd Street Galveston, Texas 77550	Within Project Area Elevation: 6.35 feet	Historical REC	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive One belowground storage tank removed from ground Capacity/Contents: 550-gallon tank/unknown
Century Papers 112 28th Street Galveston, Texas 77550	Within Project Area Elevation: 6.05 feet	Historical REC	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive One belowground storage tank removed from ground Capacity/Contents: unknown/unknown
Galveston Railroad 37th and Old Port Industrial Galveston, Texas 77553	Within Project Area Elevation: 6.21 feet	Historical REC	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive One unused aboveground storage tank Capacity/Contents: 22,350-gallon tank/diesel
Port of Galveston-Pier 40 Galveston, Texas	Within Project Area Elevation: 5.79 feet	Historical REC	LPST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 6/3/2011 No groundwater impacted, no apparent threats or impacts to receptors Closure Date: 12/7/2012 Final concurrence issued, case closed Leak
MH 1A Sturgis Barge 4000 Old Port Industrial Road Pier 41 Galveston, Texas 77550	Within Project Area Elevation: 5.08 feet	Historical REC	RCRA	**Resource Conservation and Recovery Act** Not a generator Facility Status: Inactive
SPT CO. Galveston Wharves 4100 Old Port Industrial Blvd Galveston, Texas 77553	Within Project Area Elevation: 5.12 feet	REC	VCP	**Voluntary Cleanup Program** Status: Under Investigation Facility Type: Creosote Distribution Facility Acres: 21.8 Soil and groundwater impacted by SVOCs
Magcobar Minerals Division 4105 Port Industrial Blvd Galveston, Texas 77550	Within Project Area Elevation: 5 feet	Historical REC	LPST PST RCRA HW	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 10/8/1993 No groundwater impacted, no apparent threats or impacts to receptors Two belowground storage tanks removed from ground Capacity/Contents: 500 and 2,000 gallons/unknown Leak Closure Date: 12/23/1993 Final concurrence issued, case closed
Sullivan Enterprises 5711 Port Industrial Blvd Galveston, Texas 77554	Within Project Area Elevation: 5 feet	Historical REC	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Four belowground storage tanks removed from ground Capacity/Contents: Four 12,000-gallon tanks/unknown

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Galveston Plant 5711 Harborside Drive Galveston, Texas 77554	Within Project Area Elevation: 5 feet	Potential REC	PST	**Petroleum Storage Tank Facility** Facility Status: Active One aboveground storage tank in use Capacity/Contents: 10,000 gallons/diesel
Durwood Greene Construction 5711 Port Industrial Blvd Galveston, Texas 77554	Within Project Area Elevation: 5 feet	Historical REC	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive One unused aboveground storage tank Capacity/Contents: 2,000-gallon tank/diesel
Galveston Bay Biodiesel 4828 Port Industrial Blvd Galveston, Texas 77554	Within Project Area Elevation: 5 feet	Historical REC	HW RCRA	**Hazardous Waste Generator** Facility Status: Inactive See page 1,050 in Galveston-Southern Section ES-126438 for waste descriptions. **Resource Conservation and Recovery Act** Facility Status: Inactive Basic organic chemical manufacturing Not a generator, verified Waste description: corrosive and ignitable waste
Galveston Bay Biofuels Tank Fire 4900 BLK. of Old Port Industrial Road Galveston, Texas 77554	Within Project Area Elevation: 5 feet	Historical REC	CER SEMS HW RCRA	**Superfund Enterprise Management System** Not on the National Priority List Removal only site (No Site Assessment Work Needed) Air affected by VOCs **Hazardous Waste** Generator of hazardous waste Status: Inactive Refer to page 1,050 in Galveston-Southern Section ES-126438 report for waste description **Resource Conservation and Recovery Act** Not a generator See pages 1,151 and 1,152 in Galveston-Southern Section ES-126438 for waste descriptions.
Half mile Lagoon 51st Port Industrial Road Pelican Island, Texas 77551	Within Project Area Elevation: 5 feet	Historical REC	CER SEMS NFRAP	**Superfund Enterprise Management System** **No Further Response Action Program** Not on the National Priority List Initial site assessment occurred on 6/23/1993 Site reassessment occurred on 10/28/2011

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Galveston Main WWTP 5200 Port Industrial Road Galveston, Texas 77553	Within Project Area Elevation: 5 feet	Potential REC	PST HW RCRA	**Petroleum Storage Tank Facility** Facility Status: Active Three aboveground storage tanks in use Capacity/Contents: 8,000 gallons and two unknown/diesel **Hazardous Waste and Resource Conservation and Recovery Act** Facility Status: Inactive
Francis Drilling Fluids 5708 Harborside Drive Galveston, Texas 77554	Within Project Area Elevation: 5 feet	Potential REC	PST	**Petroleum Storage Tank Facility** Facility Status: Active One aboveground storage tank in use Capacity/Contents: 1,500 gallons/diesel
SWS Environmental Services 5708 Harborside Drive Galveston, Texas 77554	Within Project Area Elevation: 5 feet	Historical REC	HW RCRA	**State/Tribal Hazardous Waste** Status: Inactive Facility Type: Transporter transfer **Resource Conservation and Recovery Act** Not a generator
Teichman Road Sol 8614 Teichman Road Galveston, Texas 77554	Within Project Area Elevation: 4.79 feet	Historical REC	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive One belowground storage tank removed from ground Capacity/Contents: 10,000 gallons/unknown
T & T Marine Salvage INC 9723 Teichman Road Galveston, Texas 77554	Within Project Area Elevation: 5.06 feet	Potential REC	RCRA TSD HW PST	**Resource Conservation and Recovery Act** **Transportation, Storage, and Disposal** Status: Active Site - Handler Activities Not a generator **Hazardous Waste** Transporter of hazardous waste Status: Active **Petroleum Storage Tank Facility** Facility Status: Active Two aboveground storage tanks in use Capacity/Contents: 10,000 gallons/diesel Three belowground storage tanks removed from ground Capacity/Contents: 1,000 gallons/unknown
Former Doans Food Store/JAX 11128 FM 3005 Road Galveston, Texas 77554	Within Project Area Elevation: 9.02 feet	Potential REC	LPST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 12/21/1993 Assessment incomplete, no apparent receptors impacted One belowground storage tank removed from ground One belowground storage tank permanently filled in place Capacity/Contents: 1,065 and 560 gallons/unknown Leak Closure Date: 12/14/2009 Final concurrence issued; case closed

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
JAX 11128 FM 3005 Road Galveston, Texas 77554	Within Project Area Elevation: 9.02 feet	Potential REC	LPST PST	**Leaking Petroleum Storage Tank/Petroleum Storage Tank Facility** Facility Status: Inactive Leak Discovery Date: 5/24/2004 Assessment incomplete, no apparent receptors impacted One belowground storage tank removed from ground One belowground storage tank permanently filled in place Capacity/Contents: 1,065 and 560 gallons/unknown Leak Closure Date: 12/14/2009 Final concurrence issued; case closed
Corner Store 2608 16710 San Luis Pass Road Jamaica Beach, Texas 77554	Within Project Area Elevation: 5 feet	Potential REC	PST	**Petroleum Storage Tank Facility** Facility Status: Active Three belowground storage tanks in use Capacity/Contents: 10,000 gallons/unknown
Pelican Construction and Development 21506 San Luis Pass Road Galveston, Texas 77554	Within Project Area Elevation: 8.35 feet	Historical REC	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive One unused aboveground storage tank Capacity/Contents: 2,000-gallon tank/diesel
Sea Isle Supermarket 22220 San Luis Pass Road Galveston, Texas 77554	Within Project Area Elevation: 9.36 feet	Potential REC	PST	**Petroleum Storage Tank Facility** Facility Status: Active Three belowground storage tanks in use Capacity/Contents: 10,000 gallons/unknown
Champion Building Products 3902 Port Industrial Blvd Galveston, Texas 77553	0.01 mile Northeast Elevation: 5.53	Historical REC	HW RCRA	**State/Tribal Hazardous Waste** Status: Inactive Facility Type: Generator **Resource Conservation and Recovery Act** Not a generator See page 1,144 in Galveston-Southern Section ES-126438 for waste descriptions.
Chevron USA 1802 Water Galveston, Texas 77550	0.02 mile Southwest Elevation: 6.26 feet	Low	HW RCRA	**State/Tribal Hazardous Waste** Status: Merged Facility Type: Generator **Resource Conservation and Recovery Act** Not a generator See page 1,134 in Galveston-Southern Section ES-126438 for waste descriptions.

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Chevron Bulk Plant 165535 18th Street Galveston, Texas 77553	0.02 mile Southwest Elevation: 6.26 feet	Potential REC	LPST	**Leaking Petroleum Storage Tank** Leak Discovery Date: 1/31/1991 Groundwater impacted, no apparent threats or impacts to receptors Leak Closure Date: 10/29/1996 Final concurrence issued, case closed
Chevron Bulk Plant #60165535 1802 Water Street Galveston, Texas	0.02 mile East Elevation: 6.29 feet	Controlled REC Potential REC	ST/IC VCP HW	**State Institutional Control/Voluntary Cleanup Program** Non-residential, no groundwater use Facility Type: LPST Acres: 0.5 Media affected: soil and groundwater Contaminant: Hydrocarbons Status: Completed 12/15/1997 **State/Tribal Hazardous Waste** Status: Inactive Facility Type: Generator
UT - Medical Branch, Port of Galveston Waterfront, and Galveston Wharves 1902 Water Street Galveston, Texas 77550	0.02 mile East Elevation: 6.29 feet	Historical REC	HW RCRA	**Hazardous Waste** Status: Inactive Facility Type: Generator See page 1,036 and 1,038 in Galveston-Southern Section ES-126438 for waste descriptions. **Resource Conservation and Recovery Act** Facility Status: Inactive Support activities for transportation
Galveston Beverage 1728 Water Galveston, Texas 77550	0.02 mile Southwest Elevation: 6.2 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Two belowground storage tanks removed from ground Capacity/Contents: 2000 and 1000 gallons/unknown
Bluebonnet Warehousing 3802 Water St Galveston, Texas 77550	0.02 mile Southwest Elevation: 5.87 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive One belowground storage tank permanently filled in place Capacity/Contents: 1000 gallon/unknown

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
M-I Grinding Plant 4105 Port Industrial Blvd Galveston, Texas 77550	0.02 mile Southwest Elevation: 5 feet	Low	HW RCRA	**State/Tribal Hazardous Waste** Status: Inactive Facility Type: Generator See page 1,047 in Galveston-Southern Section ES-126438 for waste descriptions. **Resource Conservation and Recovery Act** Not a generator See page 1,147 in Galveston-Southern Section ES-126438 for waste descriptions.
Galveston Terminal Gulf Sulphur Services 4500 Old Port Industrial Road Galveston, Texas 77554	0.02 mile West Elevation: 5.1 feet	Low	RCRA GEN HW PST	**Resource Conservation and Recovery Act Generator** Status: Active Site – Handler Activities Conditionally exempt small quantity generator of coal and other mineral resources Several violations found, only one resolved on 12/1/2000 Refer to page 66 in Galveston-Southern Section ES-126438 report for waste description **Hazardous Waste** Generator of hazardous waste Status: Active Refer to page 1,048 in Galveston-Southern Section ES-126438 report for waste description **Petroleum Storage Tank Facility** Facility Status: Active Four aboveground diesel storage tanks, only 10,500-gallon tank in use Capacity/Contents: 3,000, 5,000, 10,500, and 20,000 gallons/diesel
Jamaica Beach Food Store 16603 San Luis Pass Road Galveston, Texas 77554	0.02 mile Southwest Elevation: 5 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active Three belowground storage tanks in use Capacity/Contents: 6,000, 6,000, and 8,000 gallons/unknown
Hummels General Store and Deli 13722 FM 3005 Road Galveston, Texas 77554	0.02 mile East Elevation: 5 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active Two belowground storage tanks, temporarily out of service Capacity/Contents: 8,000 gallons/unknown
Galveston Bulk Terminal 4800 Port Industrial Blvd Galveston, Texas 77551	0.02 mile Northwest Elevation: 5 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active One aboveground storage tank in use Capacity/Contents: 10,000 gallons/diesel

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Sullivan Enterprises Galveston 4800 Port Industrial Blvd Galveston, Texas 77554	0.02 mile Northwest Elevation: 5 feet	Historical REC	HW RCRA	**Hazardous Waste** Generator of hazardous waste Status: Inactive Refer to page 1,049 in Galveston-Southern Section ES-126438 report for waste description **Resource Conservation and Recovery Act** Not a generator
Harborside Food Mart 1 8220 Harborside Drive Galveston, Texas 77554	0.02 mile Southeast Elevation: 5.36 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active Three belowground storage tanks in use Capacity/Contents: 10,000, 12,000, and 12,000 gallons/unknown
Island Mobil 8224 Harborside Drive Galveston, Texas 77554	0.02 mile Southeast Elevation: 5.36 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active Four belowground storage tanks in use Capacity/Contents: 5,000, 9,000, 10,000, and 10,000 gallons/unknown
Hospital Galveston 701 Harborside Way Kemah, Texas 77565	0.03 mile Southeast Elevation: 6.29 feet	Low	HW	**Hazardous Waste** Facility Status: Inactive Facility Type: Generator Liquid waste from paint activity cleanup
Jules Lauve Jr 2210 Strand St Galveston, Texas 77550	0.03 mile Southwest Elevation: 6.36 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Two belowground storage tanks permanently filled in place Capacity/Contents: 1000 gallon/unknown
Ferry Rd Food Mart 2302 Harborside Dr. Galveston, Texas 77550	0.03 mile West Elevation: 5.96 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Pending
Browning- Ferris Industries 5515 Port Industrial Hitchcock, Texas 77563	0.03 mile Southwest Elevation: 5 feet	Historical REC	CER SEMS NFRAP	**Superfund Management Site** Not on the national priority list Not a federal facility Discovery Date: 1/1/1980 Site Archive Date: 1/1/1984
City of Galveston Transfer Station Facility 5515 Port Industrial Blvd. Galveston, Texas 77554	0.03 mile Southwest Elevation: 5 feet	Potential REC	SWLF PST	**Solid Waste Landfill** Facility Type: Transfer Station Facility Status: Active **Petroleum Storage Tank Facility** Status: Active Two aboveground storage tanks Capacity/Contents: 6,000 and 10,000 gallons/diesel

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Kelso Tract North side of Galveston near Permit # 164 Galveston, Texas	0.03 mile Southeast Elevation: 5 feet	Potential REC	SWLF	**Solid Waste Landfill** Facility Status: Closed Identified in 1980 highway maps from Houston-Galveston Area Council of Governments No map, survey, or metes and bounds for landfill Identified in Houston-Galveston Area Council of Governments Closed Landfill Inventory
Little Lukes Market 2101132 8027 Harborside Drive Galveston, Texas 77554	0.03 mile East Elevation: 5 feet	Historical REC	LPST PST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 9/26/1996 Groundwater impacted, no apparent threats or impacts to receptors Four belowground storage tanks removed from ground Capacity/Contents: 4,000 and 6,000 gallons/unknown Leak Closure Date: 7/10/1998 Final concurrence issued; case closed **Petroleum Storage Tank Facility** Facility Status: Inactive Four belowground storage tanks removed from ground Capacity/Contents: 6000, 6000, 4000, and 6000 gallons/unknown
Yarbrough (UNUM 1050) Between 75th & 77th Streets and between Broadway & Industrial Blvd Galveston, Texas	0.03 mile West Elevation: 5 feet	Potential REC	SWLF	**Solid Waste Landfill** Facility Status: Closed Appears to be continuous property to and with UNUM 1051 and UNUM 1052 1/25/1992 Class II Industrial Waste accepted (mostly lumber) Closure indicated by 5/30 City of Galveston letter
Southern Union Gas (UNUM 1051) Between 75th & 77th Streets and between Broadway & Industrial Blvd Galveston, Texas	0.03 mile West Elevation: 5 feet	Potential REC	SWLF	**Solid Waste Landfill** Facility Status: Closed Appears to be continuous property to and with UNUM 1050 and UNUM 1052 1/25/1992 Class II Industrial Waste accepted
WTI 7501 Harborside Drive Galveston, Texas 77554	0.03 mile Northwest Elevation: 5 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active One aboveground storage tank in use Capacity/Contents: 8,000 gallons/diesel
Baker Hughes Inteq 7501 Port Industrial Blvd Galveston, Texas 77554	0.03 mile Northwest Elevation: 5 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active One aboveground storage tank in use Capacity/Contents: 10,000 gallons/diesel

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Port of Galveston 123 25th Street Galveston, Texas 77550	0.03 mile Southwest Elevation: 6.08 feet	REC	LPST PST	**Leaking Petroleum Storage Tank/Petroleum Storage Tank Facility** Leak Discovery Date: 11/9/1997 Groundwater impacted, public/domestic water supply well within 0.25 and 0.5 mile Five belowground storage tanks removed from ground Capacity/Contents: Two 1,000-gallon tanks, one 2,000-gallon tank, one 8,000-gallon tank, and one 12,000-gallon tank/unknown Leak Closure Date: 6/9/2004 Final concurrence pending documentation of well plugging
Pier 41 123 25th Street Galveston, Texas 77550	0.03 mile Southwest Elevation: 6.08 feet	Historical REC	LPST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 9/13/2007 Impacted groundwater discharges to the southwest used by human and endangered species < 500 feet Leak Closure Date: 7/11/2003 Final concurrence issued; case closed
Terramar Beach Galveston, Texas 77550	0.04 mile Southeast Elevation: 5 feet	Historical REC	CER SEMS NFRAP	**Superfund Management Site** Not on the national priority list Not a federal facility Discovery Date: 8/1/1990 Site Archive Date: 12/14/1995
Harborside Yard 5800 Harborside Drive Galveston, Texas 77554	0.04 mile West Elevation: 4.74 feet	Potential REC	SWLF	**Solid Waste Landfill** Facility Status: Active Facility Type: Resource Recovery/Recycling Facility
JW Kelso 7225 Port Industrial Blvd Galveston, Texas 77554	0.04 mile Northeast Elevation: 5 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active One aboveground storage tank in use Capacity/Contents: 2,000 gallons/gasoline
G T Vacuum Service 7005 Harborside Drive Galveston, Texas 77554	0.04 mile West Elevation: 5 feet	Historical REC	HW	**Hazardous Waste** Transporter of hazardous waste Status: Closed Refer to page 1,051 in Galveston-Southern Section ES-126438 report for waste description
Plant 21 Galveston 7001 Port Industrial Blvd Galveston, Texas 77554	0.04 mile West Elevation: 5 feet	Historical REC	HW	**Hazardous Waste** Generator of hazardous waste Status: Inactive Refer to page 1,052 in Galveston-Southern Section ES-126438 report for waste description

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Broome Welding & Machine 7909 Bayside Ave Galveston, Texas 77554	0.04 mile Southeast Elevation: 5 feet	Historical REC	HW	**Hazardous Waste** Generator of hazardous waste Status: Inactive Refer to page 1,053 in Galveston-Southern Section ES-126438 report for waste description
Helena Lab Satellite Lab 1328 Strand Galveston, Texas 77550	0.04 mile Southeast Elevation: 6.9 feet	Low	RCRA GEN	**Resource Conservation and Recovery Act – Generator** Status: Active Site – Handler Activities Conditionally exempt small quantity generator No violations found Refer to page 79 in Galveston-Southern Section ES-126438 report for waste description
Previous Fueling Facility 25th and Strand Galveston, Texas	0.04 mile Southwest Elevation: 6.14 feet	Low	FED BWN PST	**Federal Brownfields** Phase I Environmental Site Assessment conducted on 6/30/2003 No cleanup required Institutional control: unknown **Petroleum Storage Tank Facility** Facility Status: Inactive Two belowground storage tanks removed from ground Capacity/Contents: 550 gallons/unknown
MS Celebration 2502 Harborside Galveston, Texas 77550	0.04 mile Southeast Elevation: 5.18 feet	Low	RCRA GEN	**Resource Conservation and Recovery Act - Generator** Status: Active Site - Handler Activities Large Quantity Generator No violations found Refer to page 68 in Galveston-Southern Section ES-126438 report for waste description
Galveston Chevron/Island Fuel 8115 Harborside Drive Galveston, Texas 77554	0.04 mile Southeast Elevation: 5.18 feet	Potential REC	LPST PST	**Leaking Petroleum Storage Tank/Petroleum Storage Tank Facility** Facility Status: Active Leak Discovery Date: 5/22/2003 Domestic water supply well/line/groundwater intake impact, additional water available Four belowground storage tanks in use Capacity/Contents: 7,600 gallons/unknown Leak Closure Date: 7/7/2004 Final concurrence issued; case closed
Dienst Distributing 7817 Bayside Ave Galveston, TX 77554	0.05 mile Southeast Elevation: 5 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Two belowground storage tanks removed from ground One aboveground storage tank Capacity/Contents: 2000 gallons/diesel

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Young 105 25th Street Galveston, Texas 77550	0.05 miles Southeast Elevation: 6.28 feet	Low	HW	**Hazardous Waste** Generator of hazardous waste Status: Inactive Refer to page 1,054 in Galveston-Southern Section ES-126438 report for waste description
Galveston Newspapers 8522 Teichman Road Galveston, Texas 77554	0.05 mile North Elevation: 4.83 feet	Low	HW RCRA	**Hazardous Waste** Generator of hazardous waste Status: Inactive Refer to page 1,055 in Galveston-Southern Section ES-126438 report for waste description **Resource Conservation and Recovery Act** Not a generator
500 Barracuda Avenue and 400 Harborside Drive Galveston, Texas 77553	0.05 mile Northwest Elevation: 11.63 feet	Potential REC	VCP	**Voluntary Cleanup Program** Status: Under Investigation Facility Type: Medical Office Acres: 18.29 Soil impacted by SVOCs and TPH
Galveston Island State Park 14901 Termini San Luis Pass Road Galveston, Texas 77554	0.06 mile Southeast Elevation: 5 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Three belowground storage tanks removed from ground Capacity/Contents: 2000, 2000, and 500 gallons/unknown
West End Fuel Site 3902 Buccaneer Blvd Galveston, Texas 77554	0.06 mile North Elevation: 5 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active One aboveground storage tank in use Capacity/Contents: 4,000 gallons/diesel
Galatex Electric 112 19th St Galveston, Texas 77550	0.06 mile Southeast Elevation: 6.41 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive One belowground storage tank removed from ground. Capacity/Contents: 1000 gallons/unknown
Malin Construction 320 77th Street Galveston, Texas 77554	0.07 mile Southeast Elevation: 5 feet	Low	HW RCRA	**Hazardous Waste** Generator transporter of hazardous waste Status: Inactive Refer to page 1,056 in Galveston-Southern Section ES-126438 report for waste description **Resource Conservation and Recovery Act** Not a generator

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Gulf Oil Corporation 60108394 327 Strand Street Galveston, Texas 77550	0.07 mile South Elevation: 13.82 feet	Historical REC	LPST PST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 10/21/1998 Groundwater impacted, no apparent threats or impacts to receptors Four belowground storage tanks removed from ground Capacity/Contents: Two 8,000-gallon, one 6,000-gallon, and one 550-gallon tanks/unknown Leak Closure Date: 11/18/2002 Final concurrence issued; case closed
City of Galveston Trolley Garage 214 28th Street Galveston, Texas 77550	0.07 mile South Elevation: 6.21 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active One belowground storage tank temporarily out of service Capacity/Contents: 15,000 gallons/unknown Three belowground storage tanks removed from ground Capacity/Contents: 5,000 gallons/unknown
2415 Strand 2415 Strand Street Galveston, Texas 77550	0.07 mile South Elevation: 6.25 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Two belowground storage tanks removed from ground Capacities/Contents: Unknown
Farmers Industrial Properties Farmers Marine Copper Works 1908 Strand Street Galveston, Texas 77553	0.08 mile Southeast Elevation: 6.4 feet	Historical REC	LPST PST	**Leaking Petroleum Storage Tank/Petroleum Storage Tank Facility** Facility Status: Inactive Leak Discovery Date: 11/22/1999 Groundwater impacted, no apparent threats or impacts to receptors Two belowground storage tanks removed from ground Capacity/Contents: 9,994 and 8,020-gallons/unknown Leak Closure Date: 4/17/2002 Final concurrence issued; case closed
Gulf Coast Regional MHMR 119 6th Street North Galveston, Texas 77553	0.08 mile Northwest Elevation: 5.27 feet	Low	HW RCRA	**Hazardous Waste** Generator of hazardous waste Status: Inactive Refer to page 1,057 in Galveston-Southern Section ES-126438 report for waste description **Resource Conservation and Recovery Act** Not a generator

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
The University of Texas Medical Branch 206 13th Street Galveston, Texas 77550	0.09 mile South Elevation:	Potential REC	RCRA COR RCRA TSD RCRA GEN HW	**Resource Conservation Recovery Act - Corrective Action** **Resource Conservation Recovery Act - Treatment, Storage, and Disposal** **Resource Conservation Recovery Act – Generator** Status: Active Site – Handler Activities Large Quantity Generator Numerous violations found, most recent corrective action 9/11/1998 Latest resolution date: 3/10/2016 Refer to pages 47-52 in Galveston-Southern Section ES-126438 report for waste description **Hazardous Waste** Generator of hazardous waste Status: Active Refer to page 1,059 in Galveston-Southern Section ES-126438 report for waste description
West Gulf Marine 6000 Harborside Drive Galveston, Texas 77554	0.09 mile North Elevation: 3.23 feet	Low	RCRA GEN HW	**Resource Conservation and Recovery Act Generator** Status: Active Site - Handler Activities Conditionally exempt small quantity generator Numerous violations found, all violations resolved 9/30/2011 Refer to page 81 in Galveston-Southern Section ES-126438 report for waste description **Hazardous Waste** Generator of hazardous waste Status: Active Refer to page 1,060 in Galveston-Southern Section ES-126438 report for waste description
Bayshore Seafood 6000 Harborside Drive Galveston, Texas 77554	0.09 mile North Elevation: 3.23 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive One belowground storage tank removed from ground Capacity/Contents: 11,000 gallons/unknown Two aboveground storage tanks Capacity/Contents: 6000 gallons/diesel
University of Texas Medical Branch at Galveston 601 Strand Street Galveston, Texas 77550	0.09 mile South Elevation: 11.85 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active Four aboveground storage tanks in use Capacity/Contents: One 1,500, one 8,000, and two 50,000-gallon tanks/diesel

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Damars Landfill NW corner of Port Industrial Blvd and 77th intersection Galveston, Texas	0.09 mile Northwest Elevation: 5 feet	Low	SWLF	**Solid Waste Landfill** Facility Status: Closed Approved experimental landfill for milled refuse 5/24/74 - 1500 feet along Industrial; projected height of 15 feet for the fill According to Houston-Galveston Area Council the approved landfill was never used
University of Texas Medical Branch at Galveston 1700 Strand Street Galveston, Texas 77550	0.1 mile South Elevation: 6.63 feet	Low	RCRA	**Resource Conservation and Recovery Act** Facility Status: Inactive Medical Laboratory Not a generator, verified Waste Description: Lead
Galveston West Island 13809 Stewart Rd Galveston, TX 77554	0.1 mile North Elevation: 5 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active One aboveground storage tank in use Capacity/Contents: 2,000 gallons/diesel
Shell E and P Company Ryan Marine Services, Inc. 7500 Harborside Drive Galveston, Tx 77554	0.1 mile North Elevation: 5 feet	Low	PST RCRA RCRA TSD HW	**Petroleum Storage Tank Facility** Facility Status: Inactive Two aboveground storage tanks Capacity/Contents: 4000 and 20,000 gallons/ diesel **Resource Conservation and Recovery Act Treatment, Storage, and Disposal** Status: Active Site - Handler Activities Not a generator
Bonno Bait Camp 7500 Industrial Road Galveston, Texas 77551	0.1 mile North Elevation: 5 feet	Historical REC	CER SEMS NFRAP	**Superfund Management Site** Not on the national priority list Not a federal facility Discovery Date: 6/20/1991 Site Archive Date: 6/14/1994
Cemex Galveston Ready Mix Plant 7002 Harborside Dr Galveston, TX 77554	0.1 mile West Elevation: 5 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active Two aboveground storage tanks in use Capacity/Contents: 10,000 and 8,000 gallons/diesel and biodiesel
Kelso Galveston 7002 Port Industrial Blvd Galveston, Texas 77554	0.1 mile West Elevation: 5 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Two aboveground storage tanks Capacity/Contents: 10,000 and 8,200 gallons/empty

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
University Texas Medical MB 2 301 University Blvd Galveston, Texas 77555	0.11 mile Southeast Elevation: 15.06 feet	Potential REC	LPST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 3/14/1990 Groundwater impacted, no apparent threats or impacts to receptors Leak Closure Date: 12/16/1998 Final concurrence pending documentation of well plugging
University Texas Medical HLA 2 301 University Blvd Galveston, Texas 77555	0.11 mile Southeast Elevation: 15.06 feet	Potential REC	LPST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 10/17/1989 Groundwater impacted, no apparent threats or impacts to receptors Leak Closure Date: 12/16/1998 Final concurrence pending documentation of well plugging
Magnolia Homes Northeast corner of 18th Street and Mechanic Street Galveston, Texas 77553	0.15 mile South Elevation: 6.92 feet	Potential REC	VCP	**Voluntary Cleanup Program** Status: Under Investigation Facility Type: Vacant Lots Acres: 5.84 Soil and groundwater impacted by SVOCs, Metals, and TPH
Former Motor Bank 2215 Church Street Galveston, Texas	0.32 mile South Elevation: 7.55 feet	Potential REC	LPST VCP	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 4/16/2014 Assessment incomplete, no apparent receptors impacted Leak Closure Date: 5/4/2017 Final concurrence pending documentation of well plugging **Voluntary Cleanup Program** Status: Under Investigation Facility Type: Motor Bank Acres: 0.81 Soil and groundwater impacted by VOCs, SVOCs, and TPH
Old Municipal Incinerator 3 Lennox Ave Galveston, Texas 77551	0.37 mile Southeast Elevation: 5 feet	Potential REC	FED BWN VCP	**Federal Brownfields** Former location of City municipal incinerator and city fire department training site Acreage: 4.7 Phase I Environmental Site Assessment conducted on 4/1/2003 Cleanup Status: unknown Institutional control: unknown **Voluntary Cleanup Program** Status: Under Investigation Facility Type: Vacant Property Acreage: 4.65 Soil and groundwater impacted by SVOCs, Metals, and Pesticides

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Gulf Copper & Manufacturing Galveston Division Shipyard 2920 Todd Road Galveston, Texas 77554	0.4 mile North Elevation: 10.23 feet	Potential REC	RCRA GEN VCP HW	**Resource Conservation and Recovery Act Generator** Status: Active Site - Handler Activities Conditionally exempt small quantity generator - Ship building and repair Multiple violations found, all resolved by 1/21/1997 Refer to page 92-94 in Galveston-Southern Section ES-126438 report for waste description **Voluntary Cleanup Program** Status: Accepted Acres: 0.5 and 0.1 Plan accepted, certificate of completion has not been issued **Hazardous Waste** Generator of hazardous waste Status: Active Refer to page 1,090 and 1,091 in Galveston-Southern Section ES-126438 report for waste description.
West Bay Former Lowery's Landing 21706 Burnet Drive Galveston, Texas 77554	0.42 mile Northwest Elevation: 0.02 feet	Potential REC	LPST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 4/20/1993 Assessment incomplete, no apparent receptors impacted Two belowground storage tanks temporarily out of service Capacity/Contents: 6,000 and 10,000-gallon tanks/unknown One aboveground storage tank in use Capacity/Contents: 6,000-gallon tank/gasoline Three belowground storage tanks removed from ground Capacity/Contents: Two 1,000-gallon tanks and one 2,000-gallon tank/unknown Leak Closure Date: 7/1/2008 Final concurrence pending documentation of well plugging
827 53rd Street Property, 827 53rd Street Galveston, Texas 77551	0.44 mile South Elevation: 6.33 feet	Potential REC	LPST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 7/1/1999 Groundwater impacted, no apparent threats or impacts to receptors Leak Closure Date: 8/21/2017 Final concurrence pending documentation of well plugging
Cedar Terrace Northeast corner of 30th Street and Sealy Avenue Galveston, Texas 77550	0.49 mile South Elevation: 7.78 feet	Potential REC	VCP	**Voluntary Cleanup Program** Status: Under Investigation Facility Type: Vacant lot, proposed multifamily residential Soil and groundwater impacted by SVOCs and Metals

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
RT Tire Service Former SS 3826 Broadway Street Galveston, Texas 77550	0.53 mile South Elevation: 7.47 feet	Potential REC	LPST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 6/11/1991 Groundwater impacted, no apparent threats or impacts to receptors Leak Closure Date: 5/8/2008 Final concurrence pending documentation of well plugging
Diamond Shamrock 353 3927 Broadway Street Galveston, Texas 77550	0.58 mile South Elevation: 7.49 feet	Potential REC	LPST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 5/15/1992 Groundwater impacted, no apparent threat or impacts to receptors Three belowground storage tanks removed from ground Capacity/Contents: Two 10,000-gallon tanks and one 4,000-gallon tank/unknown Leak Closure Date: 8/5/1999 Final concurrence pending documentation of well plugging
Shop N Go 3627 Broadway Street Galveston, Texas 77550	0.58 mile Southeast Elevation: 7.9 feet	Potential REC	LPST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 8/29/2001 Groundwater impacted, no apparent threats or impacts to receptors Four belowground storage tanks removed from ground Capacity/Contents: 5,000-gallon tanks/unknown Leak Closure Date: 6/30/2010 Final concurrence pending documentation of well plugging
Seven A M Food Store 2728 Broadway St Galveston, TX 77550	0.54 miles Southeast Elevation: 7.96 feet	Potential REC	LPST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 5/20/1991 Groundwater impacted, site characterization incomplete Two belowground storage tanks in use Capacity/Contents: 6,000-gallon tanks/unknown One belowground storage tank temporarily out of service Capacity/Contents: 4,000-gallon tank/unknown Leak Closure Date: 5/3/1993
Galveston Environmental Impact 29th at Broadway Avenue J Galveston, Texas	0.56 mile South Elevation: 8.11 feet	Potential REC	LPST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 4/10/2015 Assessment incomplete, no apparent receptors impacted Preassessment/release determination Leak Closure Date: Unknown

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Tony Hone Firestone Tire 2302 Broadway Street Galveston, Texas 77550	0.54 mile South Elevation: 8 feet	Potential REC	LPST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 3/5/1993 Groundwater impact, non-public/non-domestic water supply well within 0.25 mile Two belowground storage tanks removed from ground Capacity/Contents: one 1,000-gallon tank and one 550-gallon tank/ unknown Leak Closure Date: 4/24/2001 Final concurrence pending documentation of well plugging
Stop N Go 3540 2525 Broadway Street Galveston, Texas 77550	0.58 mile South Elevation: 8.09 feet	Potential REC	LPST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 8/15/1991 Groundwater impacted, no apparent threats or impacts to receptors Three belowground storage tanks in use Capacity/Contents: 10,000-gallon tanks/unknown Leak Closure Date: 5/11/2001 Final concurrence pending documentation of well plugging

Table 4. Adjacent Properties Identified in the Government Records Review
Clear Lake Gate Project Area

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Three Amigos Fuel Dock Seabrook Marina 1900 Shipyard Drive Seabrook, Texas 77586	Within Project Area Elevation: 5.26 feet	Potential REC	ERNS PST HW	**Emergency Response Notification System** 70 emergency response notifications listed General media affected: Water Cleanup/natural dissipation used for remediation **Petroleum Storage Tank Facility** Facility Status: Active Facility Type: Watercraft refueling Three, 4,000-gallon, gasoline aboveground storage tanks One, 4,000-gallon, diesel aboveground storage tank **Hazardous Waste** Status: Inactive Generator of hazardous waste No violations Identified
Capt Wicks Fuel 307 1st Street Kemah, Texas 77565	0.01 mile East Elevation: 7.73 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive One aboveground storage tank, status unknown Capacity/Contents: 10,000 gallons/diesel
Vacant Land - Kemah Townsite, Lots 5 and 6 101 First Street Kemah, Texas 77565	0.05 mile Southeast Elevation: 5.28 feet	Potential REC	VCP	**Voluntary Cleanup Program** Application received: 7/1/1999 1-acre lots 5 and 6 Metal and PAH contamination of soil and groundwater Completion Date/Certificate Issued: 8/22/2000
Portofino Harbour Dockominium One Portofino Clear Lake Shores, Texas 77565	0.06 mile West Elevation: 7.74 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Two belowground storage tanks permanently filled in place Capacity/Contents: Unknown
LLM Fuel Dock 300 1st Street Kemah, Texas 77565	0.08 mile East Elevation: 4.72 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Two belowground storage tanks permanently filled in place Capacity/Contents: 6,000 gallons/unknown
Joe Lee's Seafood Restaurant 104 Kipp Kemah, Texas 77565	0.33 mile east Elevation: 5.65 feet	Low	VCP	**Voluntary Cleanup Program** Application Received: 1/23/1997 Application Status: Withdrawn Abandoned underground storage tank system causing soil and groundwater contamination by TPHs and PAHs Remedial action: Excavation of underground storage tank and removal to offsite landfill

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Bayport Professional Building 1902 Bayport Blvd Seabrook, Texas 77586	0.99 mile North Elevation: 12.67 feet	Low	VCP	**Voluntary Cleanup Program** Application Received: 10/12/2001 Application Status: Withdrawn Office building site on 0.895 acre with VOC and TPH contamination to soil and groundwater No closure date

Table 5. Adjacent Properties Identified in the Government Records Review
Dickinson Bayou Gate Project Area

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Safe Haven Shipyard 10700 Hillman Drive Dickinson, Texas 77539	0.06 mile West Elevation: 8.51 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active One belowground storage tank in use Capacity/Contents: 12,000 gallons/unknown
Hillman's Seafood Café 5516 Hillman Drive Dickinson, Texas 77539	0.08 mile West Elevation: 9.4 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active Two aboveground storage tanks, one remains onsite Capacity/Contents: 3,000 and 6,000 gallons/diesel Two belowground storage tanks removed from ground Capacity/Contents: 2,000 gallons/unknown

Table 6. Adjacent Properties Identified in the Government Records Review
ER Measures Project Area - High Island, Chambers County, and Bolivar Peninsula

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
High Island 0.25-mi west of cemetery on 5th High Island, Texas	Within Project Area Elevation: 2.74 feet	Potential REC	SWLF	**Solid Waste Landfill** Facility Status: Closed Burning dump; identified in list of Galveston County sites dated 4/66
Gilchrist Service Center 1741 HWY 87 Gilchrist, Texas 77617	Within Project Area Elevation: 4.98 feet	Potential REC	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Two belowground storage tanks removed from ground One belowground storage tank permanently filled in place Capacity: 1,000, 2,000, and 3,000-gallon tank
Corner Mart 2997 State Highway 87 Crystal Beach, Texas 77650	Within Project Area Elevation: 4.68 feet	Potential REC	PST	**Petroleum Storage Tank Facility** Facility Status: Active Five belowground storage tanks in use Capacity: 6,000 gallons
Peninsula Sanitation Service Inc. 2787 Highway 87 Crystal Beach, Texas 77650	Within Project Area Elevation: 5.45 feet	Potential REC	SWLF PST	**Solid Waste Landfill** Facility Status: Active **Petroleum Storage Tank Facility** Facility Status: Active One aboveground storage tank in use Capacity: 10,000 gallons
Julies Corner Market & Deli 1990 State Highway 87 Gilchrist, Texas 77617	0.01 mile West Elevation: 4.98 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Three belowground storage tanks removed from ground Capacity: one 4,000 and two 6,000-gallon tanks
The Corner 2283 Highway 87 Gilchrist, Texas 77617	0.02 mile North Elevation: 4.98 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Three belowground storage tanks removed from ground Two belowground storage tanks permanently filled in place Capacity: 1,000 gallons
Sunrise Grocery 6 1995 HWY 87 Gilchrist, Texas 77665	0.03 mile North Elevation: 4.98 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Three belowground storage tanks removed from ground Capacity: 6,000 gallons

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
High Island Petrochemicals LLC 2500 Highway 124 High Island, Texas 77623	0.06 mile East Elevation: 5.01 feet	Historical REC	RCRA COR RCRA TSD RCRA GEN HW	**Resource Conservation and Recovery Act Corrective Action** **Resource Conservation and Recovery Act Transport, Storage, and Disposal** **Resource Conservation and Recovery Act Generator** Active Site - Handler Activities Conditionally exempt small quantity generator Multiple violations found and resolved **Hazardous Waste** Generator of hazardous waste Status: Active Refer to page 123 of northern regulatory report for waste description
Smith Service 212 Pierce Street High Island, Texas 77623	0.07 mile Southeast Elevation: 8.34 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive One belowground storage tank removed from ground Capacity: 2,000 gallons
GCM The Big Store 2385 State Highway 87 Crystal Beach, Texas 77650	0.09 mile Southwest Elevation: 6.12 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active Three belowground storage tanks in use Capacity: Two 8,000 and one 6,000-gallon tanks
JBS Seafood 1263 West Canal Drive Crystal Beach, Texas 77650	0.09 mile Southwest Elevation: 3.36 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active One aboveground storage tank in use Capacity/Contents: 10,000-gallon tank/Diesel
Family Dollar #8939 2275 Highway 87, STE 13 Crystal Beach, Texas 77650	0.1 mile South Elevation: 6 feet	Low	RCRA GEN	**Resource Conservation and Recovery Act Generator** Active Site - Handler Activities Conditionally exempt small quantity generator

Table 7. Adjacent Properties Identified in the Government Records Review
ER Measures Project Area - Galveston, Brazoria, and Matagorda Counties

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Terramar Beach Galveston, Texas 77550	Within Project Area Elevation: 5 feet	Historical REC	CER SEMS NFRAP	**Superfund Management Site** Not on the national priority list Not a federal facility Discovery Date: 8/1/1990 Site Archive Date: 12/14/1995
Chinquapin 1 mi N of Chinquapin on Chinquapin Rd, Texas	0.01 miles Northwest Elevation: 4.85 feet	Potential REC	SWLF	**Solid Waste Landfill** Facility Status: Closed Additional Location Information: 6/2/72- Municipal waste accepted; Distance to nearest water course is 20ft; Dump operation; Evidence of burning observed
Gulf Breeze Convenience Store 12124 FM 3005 Road Galveston, Texas 77554	0.03 mile North Elevation: 7.87 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive Two belowground storage tanks removed from ground Capacity/Contents: Unknown
Jamaica Beach Food Store 16603 San Luis Pass Road Galveston, Texas 77554	0.03 mile Southwest Elevation: 5 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active Three belowground storage tanks in use Capacity/Contents: 6,000, 6,000, and 8,000 gallons/unknown
Surfside Marina 827 Gulf Street Surfside Beach, Texas 77541	0.04 mile Northwest Elevation: 6.83 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active Two aboveground storage tanks in use Capacity/Contents: 10,000-gallons tanks/gasoline and diesel
Bright Lite 13201 Blue Water Highway Freeport, Texas 77541	0.06 miles North Elevation: 4.96 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active Three belowground storage tanks removed from the ground Two aboveground storage tanks remain Capacity/Contents: 4,000 gallons/gasoline
Harrisons Seven Seas Grocery 17523 San Luis Pass Road Galveston, Texas 77554	0.06 mile Northwest Elevation: 7.75 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active Three belowground storage tanks in use Capacity/Contents: 10,000-gallons tanks/unknown

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Former Doans Food Store/JAX 11128 FM 3005 Road Galveston, Texas 77554	0.07 mile North Elevation: 9.02 feet	Historical REC	LPST	**Leaking Petroleum Storage Tank Facility** Leak Discovery Date: 12/21/1993 Assessment incomplete, no apparent receptors impacted One belowground storage tank removed from ground One belowground storage tank permanently filled in place Capacity/Contents: 1,065 and 560 gallons/unknown Leak Closure Date: 12/14/2009 Final concurrence issued; case closed
Pelican Construction and Development 21506 San Luis Pass Road Galveston, Texas 77554	0.07 mile Northwest Elevation: 8.35 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Inactive One aboveground storage tank Capacity/Contents: 2,000-gallon tank/diesel
Sea Isle Supermarket 22220 San Luis Pass Road Galveston, Texas 77554	0.07 mile Northwest Elevation: 9.36 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active Three belowground storage tanks in use Capacity/Contents: 10,000 gallons/unknown
Lucky Way Food Store 3802 Cove View Blvd., Ste A Galveston, Texas 77554	0.09 mile Northeast Elevation: 5.55 feet	Low	PST	**Petroleum Storage Tank Facility** Facility Status: Active Four belowground storage tanks in use Capacity/Contents: 4,000-gallon tanks/unknown
GULFCO Marine Maintenance Brazoria County Rd 756 Freeport, Texas 77541	0.18 mile Northwest Elevation: 4.91 feet	Controlled REC Potential REC	NPL CER SEMS FED IC FED EC ST NPL	**National Priority List** Currently on Final National Priority List **Federal Institutional Control/Federal Engineering Control** Record of decision: 9/29/2011 Medium affected: Groundwater and solid waste Groundwater Engineering Controls: Flocculation, Monitoring, and operations and maintenance Solid Waste: Operation and maintenance **State National Priority List** Status: Active 3/18/2003 Operations and maintenance, remedial action complete Preliminary close out report approved

Table 8. Adjacent Properties Identified in the Government Records Review
ER Measures Project Area – Aransas Pass

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Tesoro Petroleum North Bank Terminal Advantage Recycling Systems Ingleside, Texas	0.1 miles West Elevation: 9.25 feet	Potential REC	LPST PST RCRA	**Leaking Petroleum Storage Tank/Petroleum Storage Tank Facility** Leak Discovery Date: 6/3/1992 Damage Description: Impacted groundwater discharges to stormwater used by human, endangered species less than 500' Facility Status: Active Four aboveground storage tanks in use Capacity/Contents: 68,381, 42,573, 2,000, and 8,000-gallon tanks/diesel and gasoline One belowground storage tank removed from ground Capacity/Contents: 2,000 gallons/unknown Final concurrence pending documentation of well plugging Leak Closure Date: 4/29/2003 **Resource Conservation and Recovery Act** Status: Inactive Not a generator Violations found and resolved
Former LWR Property 630 E Ransom Road Aransas Pass, Texas 78336	0.33 miles Northwest Elevation: 4.48 feet	Potential REC	VCP	**State/Tribal Voluntary Cleanup** Status: Investigation Facility Type: Vacant property Acreage: 51.21 Site Contamination Information: Heavy metals, TPH Media Affected: Soil/Groundwater
Coastline Resources Inc 441 Allen Blvd Aransas Pass, Texas 78336	0.42 miles North Elevation: 6.31 feet	Potential REC	VCP	**State/Tribal Voluntary Cleanup** Status: Investigation Facility Type: Vacant property Acreage: 15.8 Site Contamination Information: Heavy metals, TPH Media Affected: Soil/Groundwater
JBS Shrimp Co 420 Bigelow Street Aransas Pass, Texas 78336	0.54 miles North Elevation: 5.69 feet	Potential REC	LPST PST	**Leaking Petroleum Storage Tank/Petroleum Storage Tank Facility** Status: Site assessment Leak Discovery Date: 2/22/2005 Damage Description: Impacted groundwater discharges to stormwater used by humans, endangered species less than 500' Facility Status: Active Seven aboveground storage tanks in use Capacity/Contents: 10,000, 10,000, 10,000, 207,000, 25,000, 22,900, and 250,000 gallons/diesel and unknown

Facility Name Address	Location Relative to Study Area	Potential Environmental Risk	Regulatory Database	Comments
Former Garrett Oil Co 269 S Bay Street Aransas Pass, Texas 78336	0.66 miles North Elevation: 2.11 feet	Potential REC	LPST	**Leaking Petroleum Storage Tank Facility** Status: 2-site assessment Leak Discovery Date: 8/9/2002 Damage Description: Impacted groundwater within 500' to 0.25 mile to stormwater used by humans, endangered species Facility Status: Inactive, wholesale Seven aboveground storage tanks Capacity/Contents: unknown/gasoline, kerosene, and diesel
Street Department 235 E Wilson Avenue Aransas Pass, Texas 78336	0.74 miles Northwest Elevation: 5.34 feet	Potential REC	LPST	**Leaking Petroleum Storage Tank/Petroleum Storage Tank Facility** Leak Discovery Date: 12/13/2012 Damage Description: no groundwater impacted, no apparent threats or impacts to receptors Facility Status: Inactive, fleet refueling Two belowground storage tanks removed from ground, contents unknown Leak Closure Date: 1/4/2013 Status: Final concurrence pending documentation of well plugging
Falcon Refinery FM 2725 at Bishop Road Ingleside, Texas 78362	0.75 mile Northwest Elevation: 8.35 feet	Potential REC	NPL CER SEMS ST NPL	**National Priority List** Currently on Final NPL Date Listed: 9/16/2011 State National Priority List Status: Active Status Date: 3/20/2003

Attachment 3

HTRW Record/Facility Location Maps

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USACE COASTAL TEXAS
PROTECTION AND RESTORATION STUDY

HTRW Assessment - High Island, Texas
Project Layout Map

FN JOB NO	TGL18185
FILE NAME	High Island Layout Map.mxd
DATE	8/14/2018
SCALE	1 inch = 1.5 miles
DESIGNED	SSJ
DRAFTED	02213

2A
FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet

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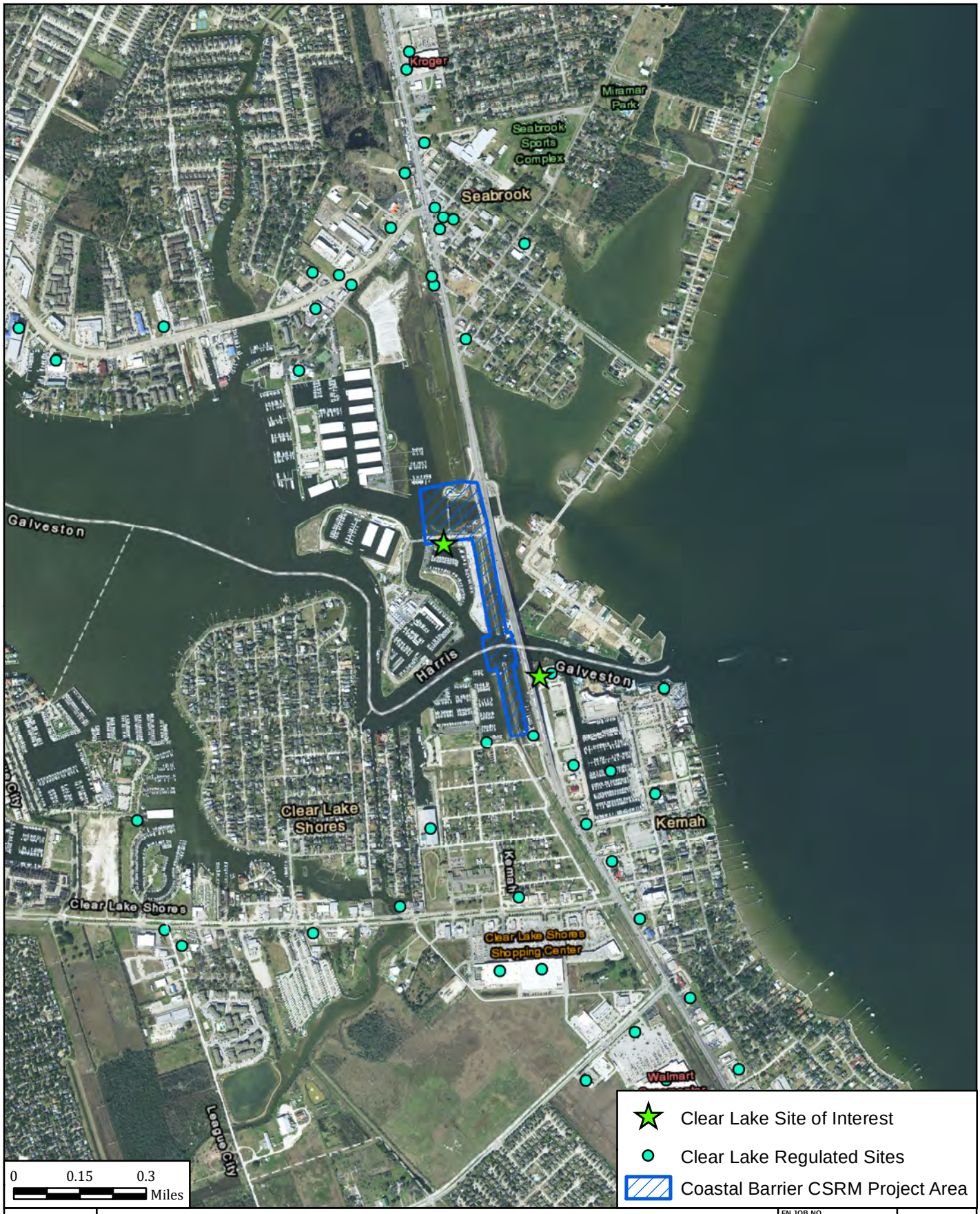
PROTECTION AND RESTORATION STUDY

HTRW Assessment - Bolivar Peninsula
Project Layout Map

FN JOB NO	TGL18185
FILE NAME	Bolivar Peninsula Layout Map.mxd
DATE	8/14/2018
SCALE	1 inch = 2 miles
DESIGNED	SSJ
DRAFTED	02213

2B
FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet



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USACE COASTAL TEXAS
PROTECTION AND RESTORATION STUDY

HTRW Assessment - Clear Lake
Project Layout Map

FN JOB NO	TGL18185
FILE NAME	Clear Lake Layout Map.mxd
DATE	8/14/2018
SCALE	1 inch = 0.3 miles
DESIGNED	SSJ
DRAFTED	02213

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FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet

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USACE COASTAL TEXAS
PROTECTION AND RESTORATION STUDY

HTRW Assessment - Dickinson Bayou
Project Layout Map

FN JOB NO	TGL18185
FILE NAME	Dickinson Bayou Layout Map.mxd
DATE	8/14/2018
SCALE	1 inch = 0.3 miles
DESIGNED	SSJ
DRAFTED	02213

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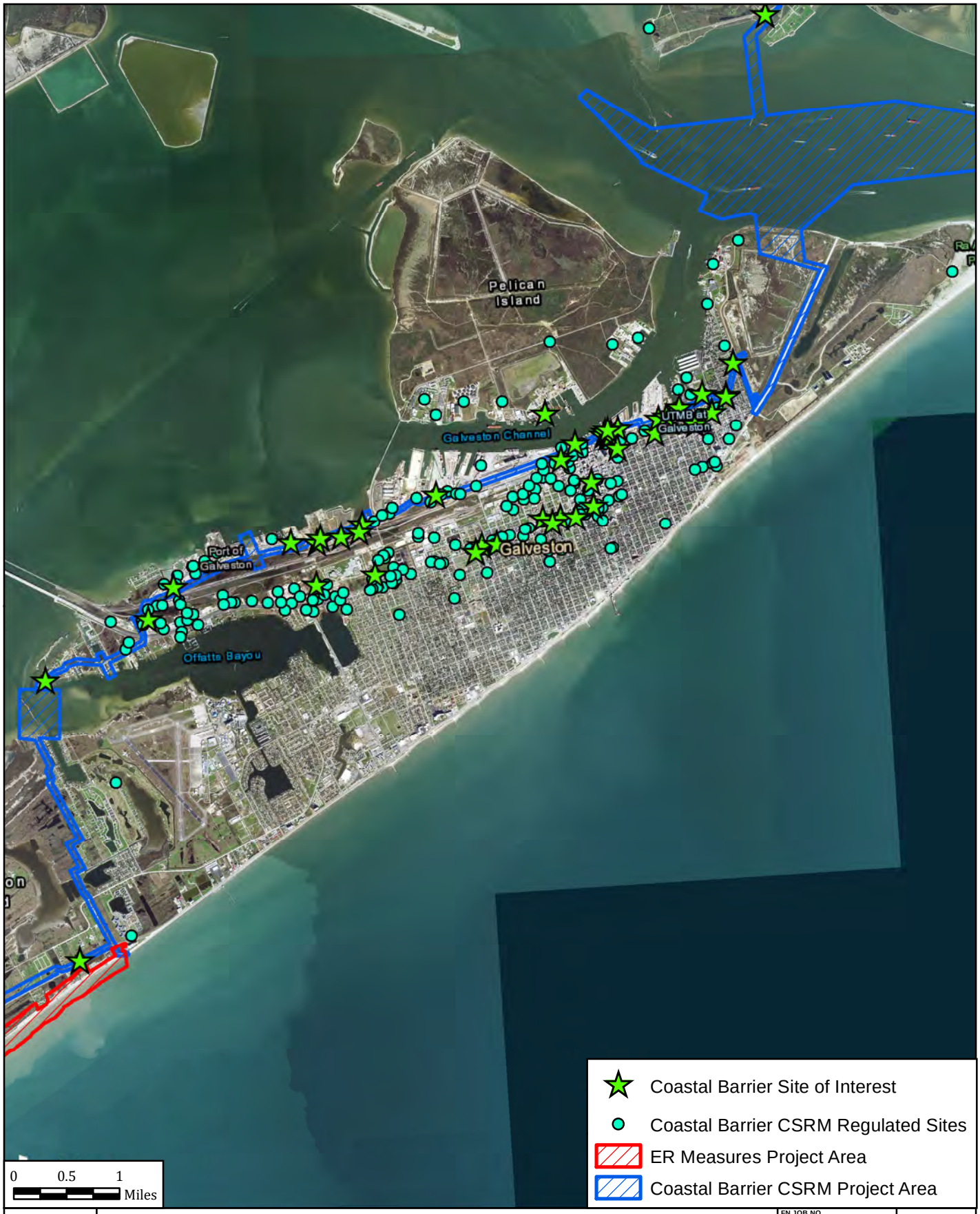
FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet



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USACE COASTAL TEXAS
PROTECTION AND RESTORATION STUDY

HTRW Assessment - Galveston, Texas
Project Layout Map

FN JOB NO	TGL18185
FILE NAME	Galveston Layout Map.mxd
DATE	8/14/2018
SCALE	1 inch = 1.25 miles
DESIGNED	SSJ
DRAFTED	02213

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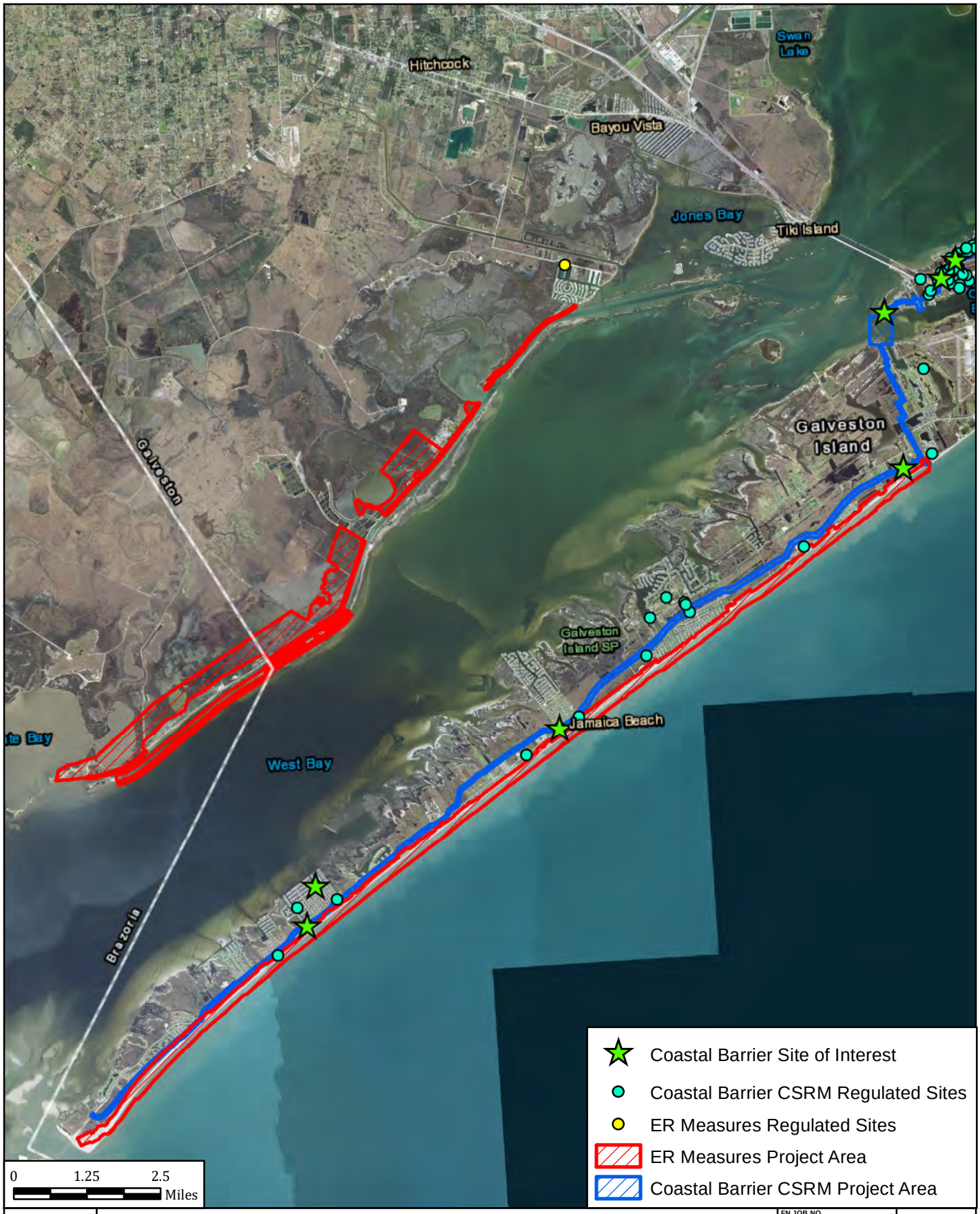
FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet



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USACE COASTAL TEXAS
PROTECTION AND RESTORATION STUDY

HTRW Assessment - Southern Galveston Island Project Layout Map

FN JOB NO	TGL18185
FILE NAME	Southern Galveston Island Layout Map.mxd
DATE	8/14/2018
SCALE	1 inch = 2.25 miles
DESIGNED	SSJ
DRAFTED	02213

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FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet

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USACE COASTAL TEXAS
PROTECTION AND RESTORATION STUDY

HTRW Assessment - Brazoria County
Project Layout Map

FN JOB NO	TGL18185
FILE NAME	Brazoria County Layout Map.mxd
DATE	8/14/2018
SCALE	
DESIGNED	SSJ
DRAFTED	02213

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FIGURE

WGS 1984 Web Mercator Auxiliary Sphere

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USACE COASTAL TEXAS
PROTECTION AND RESTORATION STUDY

HTRW Assessment - East Matagorda Bay
Project Layout Map

FN JOB NO	TGL18185
FILE NAME	East Mat Bay Layout Map.mxd
DATE	8/7/2018
SCALE	1 inch = 3 miles
DESIGNED	SSJ
DRAFTED	02213

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FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet

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USACE COASTAL TEXAS
PROTECTION AND RESTORATION STUDY

HTRW Assessment - Matagorda Bay
Project Layout Map

FN JOB NO	TGL18185
FILE NAME	Matagorda Bay Layout Map.mxd
DATE	8/14/2018
SCALE	1 inch = 1.5 miles
DESIGNED	SSJ
DRAFTED	02213

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FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet

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PROTECTION AND RESTORATION STUDY

HTRW Assessment - Aransas Pass
Project Layout Map

FN JOB NO	TGL18185
FILE NAME	Aransas Pass Layout Map.mxd
DATE	8/14/2018
SCALE	1 inch = 1 miles
DESIGNED	SSJ
DRAFTED	02213

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FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet

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USACE COASTAL TEXAS
PROTECTION AND RESTORATION STUDY

HTRW Assessment - Port Mansfield
Project Layout Map

FN JOB NO	TGL18185
FILE NAME	Port Mansfield Layout Map.mxd
DATE	8/7/2018
SCALE	1 inch = 1.5 miles
DESIGNED	SSJ
DRAFTED	02213

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FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet

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USACE COASTAL TEXAS
PROTECTION AND RESTORATION STUDY

HTRW Assessment - South Padre Island
Project Layout Map

FN JOB NO	TGL18185
FILE NAME	SPI Layout Map.mxd
DATE	8/14/2018
SCALE	1 inch = 0.5 miles
DESIGNED	SSJ
DRAFTED	02213

2L
FIGURE

NAD 1983 StatePlane Texas Central FIPS 4203 Feet