



Phase I Environmental Site Assessment – Blue Bay Site Gregory, San Patricio County, Texas

February 2018

Prepared for Corpus Christi Regional Economic Development Corporation

Hanson Professional Services Inc. Project No. 18L0013 Task 1010

Professional Statement and Signature Page

Description of Subject Site: Blue Bay Site
Gregory, San Patricio County, Texas

Environmental Professional Statement:

"I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312." These inquiries are presented in the report entitled "Phase I Environmental Site Assessment – Blue Bay Site, Gregory, San Patricio County, Texas," issued February 2018.

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Executive Summary

Hanson Professional Services Inc. conducted a Phase I Environmental Site Assessment (ESA) of approximately 1,048 acres of mostly undeveloped farmland located to the south of State Highway (SH) 35 near Gregory, San Patricio County, Texas. The ESA was performed in accordance with the requirements for the American Society for Testing Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527–13. A preliminary ecological resource characterization was also conducted for this property to supplement the Phase I ESA. This characterization consisted of research and review of information pertaining to waters and wetlands, habitat, historic resources, and threatened, endangered, and rare species.

The majority of the subject property is currently used as farmland which was fallow when a site visit was made on February 1, 2018. The southeast portion of the subject property is mostly shrubland and appears to be used for keeping cattle. Warning markers for buried infrastructure including communication cables and potable water, liquefied petroleum gas, crude oil, ethylene, oxygen, nitrogen, natural gas, mud, and decant pipelines were observed at various locations throughout the subject property.

Information pertaining to potential environmental liabilities resulting from the treating, storing, disposing, discharging, or emitting of hazardous and/or regulated substances was obtained by Hanson Professional Services Inc. through GeoSearch. GeoSearch's search of available government records did not identify any sites located on the subject property. Sites identified within the search radius beyond the subject property include Sherwin Alumina Plant and The Chemours Company FC Ingleside Plant/Oxychem Ingleside Plant. Sherwin Alumina Plant is located approximately 0.37 miles south-southwest of the subject property and was identified in the Industrial and Hazardous Waste Corrective Action Sites (IHWCA) database. The Chemours Company FC Ingleside Plant/Oxychem Ingleside Plant is located 0.61 miles south of the subject property and was identified in the IHWCA, Resource Conservation & Recovery Act – Corrective Action Facilities (RCRAC), and Resource Conservation & Recovery Act – Subject to Corrective Action Facilities (RCRASUBC) databases.

A search of the Railroad Commission of Texas's (RRC) records identified eight oil or gas wells on the subject property. Records indicate that ten underground pipelines cross the subject property. Thirty oil or gas wells were located within 0.5 miles of the subject property.

No stained soil, stressed vegetation, or waste disposal pits ponds, or lagoons were observed on the subject property during the site visit.

Findings

Our review of site information and a property inspection revealed the following recognized environmental conditions (RECs) in connection with the subject property:

On-Site RECs:

- *Past Potential Use of Herbicides and Pesticides* – Herbicides and pesticides were most likely applied to the majority of the subject property in the past because it has been used as farmland since at least 1950. If cotton crops were grown on the subject property, arsenical acids may have been used as a defoliant in the past.

- *Past Oil and Gas Exploration* – One gas well, one plugged gas well, and six dry hole wells were historically drilled on the subject property.
- *Presence of Underground Pipelines* – Ten buried pipelines are present on the subject property, including one abandoned crude oil pipeline, two in-service natural gas pipelines, three abandoned natural gas pipelines, an abandoned nitrogen pipeline, an in-service Y-grade NGL pipeline, an in-service brine pipeline, and an in-service ethylene pipeline.

Off-Site RECs:

- *Presence of Abandoned Tank Battery to South of Subject Property* – A tank battery with three abandoned aboveground storage tanks is present to the south of the eastern portion of the subject property.

Recommendations

Due to the recognized environmental conditions associated with the subject property, a Phase II Environmental Site Assessment is recommended.

The ecological resources characterization found that the subject property may contain potentially jurisdictional wetland or hydrologic features; therefore, a waters and wetlands delineation should be performed and coordination with the U.S. Army Corps of Engineers should be initiated in order to obtain an Approved Jurisdictional Determination for the subject property prior to starting site work.

Eleven Federal and State listed endangered species may potentially occur at or near the subject property. To determine whether suitable habitat for any of the potentially occurring species exists, further evaluation for threatened and endangered species should be performed.

1. Introduction

Hanson Professional Services Inc. conducted a Phase I Environmental Site Assessment (ESA) of approximately 1,048 acres of undeveloped land located to the south of State Highway (SH) 35 near Gregory, San Patricio County, Texas. The ESA was conducted for the Corpus Christi Regional Economic Development Corporation (CCREDC).

1.1. Purpose

The ESA was performed in general conformance with the requirements of the American Society for Testing Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527–13 unless specifically noted in the report. This Standard Practice was developed to address the scope of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) in order to qualify for the innocent landowner's defense to CERCLA liability. The purpose of this ESA was to assist the client in developing information to identify recognized environmental conditions (RECs) in connection with the site as reflected by the scope of this report. This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, and a visual non-invasive reconnaissance of the subject property and adjoining properties.

1.2. Special Terms and Conditions

Hanson Professional Services Inc. has performed this ESA for CCREDC for the above stated purpose. This study may not contain sufficient information for other purposes or entities. Reference is made in this ESA to public records provided by an information source. No warranty, expressed or implied, is made as to the accuracy of those public records or the accuracy of the information source providing the public records.

1.3. General Limitations

The assessment of subsurface conditions at the subject property was beyond the scope of services for this ESA.

This report does not constitute a property condition assessment since it was prepared principally to address environmental issues. It does not constitute an asbestos inspection, lead based paint survey, mold inspection, or other specific type of environmental assessment tied directly to a specific local, state, or federal environmental regulatory program.

A chain of title search was not performed for this Phase I Environmental Site Assessment.

1.4. Information Sources

The information pertaining to this ESA was obtained from the following sources:

Table 1-1 – Information Sources

1.	Contact Name:	Scott Davis
	Title:	Account Representative
	Company Name:	GeoSearch
	Web Site Address:	http://www.geo-search.com/
	Telephone Number:	(888) 396-0042
	Information Obtained:	Aerial Photos, Historical Topographic Maps, City Directory Report, Fire Insurance Map Report, Radius Map Report, & Environmental Lien Search
2.	Company Name:	San Patricio County Appraisal District
	Web Site Address:	http://www.sanpatcad.org/
	Telephone Number:	(361) 364-5402
	Information Obtained:	Legal descriptions
3.	Company Name:	Railroad Commission of Texas
	Web Site Address:	http://gis2.rrc.state.tx.us/public/startit.htm
	Telephone Number:	(361) 242-3113
	Information Obtained:	Oil and gas exploration records
4.	Company Name:	Federal Emergency Management Agency
	Web Site Address:	https://msc.fema.gov/portal
	Telephone Number:	(877) 336-2627
	Information Obtained:	Floodplain map
5.	Company Name:	United States Department of Agriculture
	Web Site Address:	Websoilsurvey.sc.egov.usda.gov/App/HomePage.htm
	Telephone Number:	(254) 742-9857
	Information Obtained:	Soil information
6.	Company Name:	Texas Commission on Environmental Quality
	Web Site Address:	http://www15.tceq.texas.gov
	Telephone Number:	(512) 239-1000
	Information Obtained:	LPST database information
7.	Company Name:	United States Geological Survey – National Hydrography Dataset
	Web Site Address:	https://nhd.usgs.gov
	Telephone Number:	(888) 275-8747
	Information Obtained:	Surface water information
8.	Company Name:	U.S. Fish & Wildlife Service
	Web Site Address:	https://www.fws.gov/wetlands/data/mapper.html
	Telephone Number:	(608) 238-9333
	Information Obtained:	Wetlands information
9.	Company Name:	Texas Historical Commission
	Web Site Address:	https://atlas.thc.state.tx.us
	Telephone Number:	(512) 463-6100
	Information Obtained:	Historical marker location information
10.	Company Name:	Texas Parks and Wildlife Department – Ecological Mapping System
	Web Site Address:	https://tpwd.texas.gov/landwater/land/programs/landscape-ecology/ems/
	Telephone Number:	(512) 389-4800
	Information Obtained:	Vegetation data

11. Company Name:	Texas Parks and Wildlife Department – Rare, Threatened, and Endangered Species of Texas
Web Site Address:	https://tpwd.texas.gov/gis/rtest/
Telephone Number:	(512) 389-4800
Information Obtained:	Species information

12. Company Name:	U.S. Fish & Wildlife Service
Web Site Address:	https://www.fws.gov/endangered/
Telephone Number:	(505) 248-6911
Information Obtained:	Species information

1.5. Qualifications Statement

Mr. Terald Smith, P.G., Senior Project Manager and Assistant Vice President for Hanson Professional Services Inc., received a B.S. in Physics and a M.S.E. in Biology, and is a Licensed Professional Geoscientist (P.G. License No. 1456, Geology). He has over thirty years of experience in solid and hazardous waste management, site remediation, air and water pollution control, environmental health and safety audits, and environmental impact assessments. He holds a Texas Commission on Environmental Quality (TCEQ) UST A and B (Installer and Remover) license (ILP000046) and is a licensed UST Corrective Action Project Manager (CAPM00152). Mr. Smith has performed numerous environmental site assessments on industrial, commercial and residential properties as well as undeveloped land.

Ms. Tara L. Ducrest, Environmental Scientist for Hanson Professional Services Inc., received a B.S. in Environmental Science with concentration in Chemistry in 2006 from Texas A&M University – Corpus Christi and an M.P.A. with an emphasis in Environmental Science in 2009 from Texas A&M University – Corpus Christi. Ms. Ducrest has performed numerous environmental site assessments on industrial, commercial, residential, and undeveloped properties.

Mr. Harrison McNeil, Biologist for Hanson Professional Services Inc., received a B.S. in Ocean & Coastal Resources in 2014 from Texas A&M University and a M.S. in Marine Resource Management in 2015 from Texas A&M University. Mr. McNeil has performed numerous ecological resource characterizations.

2. Property Description

2.1. Location

The subject property is located south of SH 35 approximately 1.75 miles east of the intersection of Farm Road 136 and SH 35 near Gregory, San Patricio, Texas. The center of the subject property lies at approximately 27° 55' 00.57" north latitude and 97° 14' 25.87" west longitude. The Subject Property Location Map and Subject Property Detail Map are provided as Figures 1 and 2.

2.2. Legal Description

The subject property consists of eight parcels of land. Legal descriptions for these parcels are listed below:

- Parcel 51584: Lot 2 Block C Gregory Subdivision CFP CO 99.92 Acres
- Parcel 66395: Abstract 221 Jas W. Page Survey (AKA 2 11) 133.59 Acres
- Parcel 62761: Abstract 145 T.T. Williamson Survey 49 Acres
- Parcel 62770: Abstract 145 T.T. Williamson Survey 115 Acres
- Parcel 62777: Abstract 145 T.T. Williamson Survey 372.28 Acres
- Parcel 61806: Abstract 132 G.W. Grover Survey 128 Acres
- Parcel 114626: Abstract 145 T.T. Williams Survey 50 Acres
- Parcel 113103: Abstract 145 T.T. Williams Survey 100 Acres

2.3. Property and Vicinity Characteristics

The subject property is located at approximately 20 feet above sea level. Federal Emergency Management Agency (FEMA) flood data was reviewed and it was determined that the subject property is located in Zone X, areas of minimal flood hazard outside of the 100 year and 500 year floodplains.

National Wetlands Inventory (NWI) data identifies two wetlands on the subject property. Both wetlands are ponds present in the southeast portion of the subject property. The wetland that is along the eastern subject property boundary is classified as a freshwater emergent wetland and the wetland further to the west is classified as a freshwater pond.

Soils of the subject property consist of Victoria clay 0 to 1 percent slopes which is well drained, Victoria clay depressional which is well drained, Raymondville clay loam 0 to 1 percent slopes which is moderately well drained, Calallen sandy clay loam 0 to 1 percent slopes which is well drained, Orelia fine sandy loam 0 to 1 percent slopes which is well drained, Papalote fine sandy loam 0 to 1 percent slopes which is moderately well drained, and Banquete clay 0 to 1 percent slopes which is moderately well drained.

The geologic information for the subject property lists the rock stratigraphic unit under geology symbols Qbc and Qbs. Qbc geology symbol represents the Beaumont Formation with areas predominantly clay and Qbs geology symbol represents the Beaumont Formation with areas predominantly sand. Physical feature information was provided by GeoSearch in the Physical Settings Report which is included in Exhibit A.

2.4. Easements and Right of Ways

Right-of-ways exist for underground pipelines and buried communication cables that cross or parallel the subject property.

2.5. Title Review

A chain of title search was not performed for this property.

2.6. Current Uses of Subject Property

The northern and western portions of the subject property are currently used as farmland. The southeast portion of the subject property is undeveloped shrubland with two ponds present. The fenced area including the eastern pond appears to be used for keeping cattle.

2.7. Past Uses of Subject Property

Portions of the subject property have been used as farmland since at least the 1950s. Oil and gas exploration appears to have occurred on the northeast and southern portions of the subject property at varying times before 1968.

2.8. Current Uses of Adjacent and Surrounding Properties

The following table lists the current uses of the adjacent and surrounding properties:

Table 2-1 – Current Uses of Surrounding Properties

North	East	South	West
Laguna Crane Services, SR Trident, SH 35, and farmland	McC Campbell Road (CR 4343), undeveloped land, mobile homes, a residential property, and aboveground pipeline appurtenances	Farmland, pipeline appurtenances (Oxy Ingleside Station and Southcross facility), aboveground storage tanks, and San Patricio Municipal Water District reservoir	Farmland, dome motel, TPCO America Corporation (seamless steel pipe manufacturing facility)

2.9. Past Uses of Adjacent and Surrounding Properties

The following table lists the past uses of the adjacent and surrounding properties determined by review of historical aerial photographs, fire insurance maps, and city directories:

Table 2-2 – Past Uses of Surrounding Properties

North	East	South	West
SH 35, farmland, and oil and gas exploration	McC Campbell Road (CR 4343), undeveloped land, homesteads, farmland, and oil and gas exploration	Farmland and oil and gas exploration	Farmland and oil and gas exploration

3. Record Review

3.1. General

Public and private entities are required to comply with applicable federal and state environmental regulations. The primary regulations, which are pertinent to this assessment, are the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the Resource Conservation and Recovery Act (RCRA). Reasonably obtainable agency records were reviewed in order to determine facilities, which might present a potential to release hazardous substances, or petroleum products, which may affect the subject property.

3.2. GeoSearch

Information pertaining to potential environmental concerns resulting from the treating, storing, disposing, discharging, or emitting of hazardous and/or regulated substances was obtained by Hanson Professional Services Inc., through GeoSearch. This information has been reduced to the properties listed that are within the appropriate search distances designated in ASTM E 1527-13, Section 8.2.1 from the approximate geographic center of the subject property. The following table identifies the ASTM appropriate minimum search distances.

Table 3-1 – Minimum ASTM Search Distances

Standard Environmental Record Sources	ASTM Minimum Search Distances (Miles)
Federal NPL Site List	1.0
Federal Delisted NPL Site List	0.5
Federal CERCLIS List	0.5
Federal CERCLIS NFRAP Site List	0.5
Federal RCRA CORRACTS Facilities List	1.0
Federal RCRA non-CORRACTS TSD Facilities List	0.5
Federal RCRA Generators List	Property and Adjoining Properties Only
Federal Institutional Control/Engineering Control Registries	Property and Adjoining Properties Only
Federal ERNS List	Property Only
State/Tribal Equivalent NPL	1.0
State/Tribal Equivalent CERCLIS	0.5
State/Tribal Landfill and/or Solid Waste Disposal Site Lists	0.5
State/Tribal Leaking Storage Tank Lists	0.5
State/Tribal Registered Storage Tank Lists	Property and Adjoining Properties Only
State and Tribal Institutional Control/Engineering Control Registries	Property and Adjoining Properties Only
State/Tribal Voluntary Cleanup Sites	0.5
State/Tribal Brownfield Sites	0.5

GeoSearch provided information available through the following federal, state, local, tribal, and proprietary databases.

Table 3-2 – Databases/Records Searched

Federal Listings	
Acronym	Database
AIRSAFS	Aerometric Information Retrieval System / Air Facility Subsystem
BRS	Biennial Reporting System
CDL	Clandestine Drug Laboratory Locations
DOCKETS	EPA Docket Data
EC	Federal Engineering Institutional Control Sites
ERNSTX	Emergency Response Notification System
FRSTX	Facility Registry System
HMIRSR06	Hazardous Materials Incident Reporting System
ICIS	Integrated Compliance Information System (Formerly Dockets)
ICISNPDES	Integrated Compliance Information System National Pollutant Discharge Elimination System
LUCIS	Land Use Control Information System
MLTS	Material Licensing Tracking System
NPDESR06	National Pollutant Discharge Elimination System
PADS	PCB Activity Database System
PCSR06	Permit Compliance System
RCRASC	RCRA Sites With Controls
SFLIENS	CERCLIS Liens
SSTS	Section Seven Tracking System
TRI	Toxics Release Inventory
TSCA	Toxic Substance Control Act Inventory
NLRRCRAG	No Longer Regulated RCRA Generator Facilities
RCRAGR06	Resource Conservation & Recovery Act - Generator Facilities
RCRANGR06	Resource Conservation & Recovery Act - Nongenerator Facilities
HISTPST	Historical Gas Stations
BF	Brownfields Management System
CERCLIS	Comprehensive Environmental Response, Compensation & Liability Information System
DNPL	Delisted National Priorities List
NFRAP	No Further Remedial Action Planned Sites
NLRRCRAT	No Longer Regulated RCRA Non-CORRACTS TSD Facilities
ODI	Open Dump Inventory
RCRAT	Resource Conservation & Recovery Act - Treatment, Storage & Disposal Facilities
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
NLRRCRAC	No Longer Regulated RCRA Corrective Action Facilities
NPL	National Priorities List

PNPL	Proposed National Priorities List
RCRAC	Resource Conservation & Recovery Act - Corrective Action Facilities
RCRASUBC	Resource Conservation & Recovery Act - Subject To Corrective Action Facilities
RODS	Record of Decision System
State (TX) Listings	
GWCC	Groundwater Contamination Cases
HISTGWCC	Historic Groundwater Contamination Cases
LIENS	TCEQ Liens
MSD	Municipal Setting Designations
NOV	Notice of Violations
SIEC01	State Institutional/Engineering Control Sites
SPILLS	Spills Listing
TIERII	Tier II Chemical Reporting Program Facilities
DCR	Dry Cleaner Registration Database
IHW	Industrial And Hazardous Waste Sites
PIHW	Permitted Industrial Hazardous Waste Sites
PST	Petroleum Storage Tanks
APAR	Affected Property Assessment Reports
BSA	Brownfields Site Assessments
CALF	Closed & Abandoned Landfill Inventory
DCRPS	Dry Cleaner Remediation Program Sites
IOP	Innocent Owner / Operator Database
LPST	Leaking Petroleum Storage Tanks
MSWLF	Municipal Solid Waste Landfill Sites
RRCVCP	Railroad Commission VCP And Brownfield Sites
RWS	Radioactive Waste Sites
VCP	Voluntary Cleanup Program Sites
WMRF	Recycling Facilities
IHWCA	Industrial And Hazardous Waste Corrective Action Sites
SF	State Superfund Sites
Tribal Listings	
USTR06	Underground Storage Tanks On Tribal Lands
LUSTR06	Leaking Underground Storage Tanks On Tribal Lands
ODINDIAN	Open Dump Inventory On Tribal Lands
INDIANRES	Indian Reservations

GeoSearch's search of available government records did not identify any sites located on the subject property. Sites identified within the search radius beyond the subject property include Sherwin Alumina Plant and The Chemours Company FC Ingleside Plant/Oxychem Ingleside Plant.

Sherwin Alumina Plant is located approximately 0.37 miles south-southwest of the subject property and was identified in the Industrial and Hazardous Waste Corrective Action Sites (IHWCA) database. The Sherwin Alumina Plant is known to have shut down in 2016. The IHWCA database information provided an identification number for the site that was used to search the TCEQ's Central Registry. Information provided from the query indicated that the site has two active air permits and several cancelled air permits and registrations. The facility also still has active registrations or permits for Industrial and Hazardous Waste, petroleum storage tanks, and wastewater permits.

The Chemours Company FC Ingleside Plant/Oxychem Ingleside Plant is located 0.61 miles south of the subject property and was identified in the IHWCA, RCRAC, and RCRASUBC databases. The IHWCA database information provided identification numbers for the site that were used to search the TCEQ's Central Registry. Information provided from The Chemours Company FC Ingleside Plant query indicated that the site has one active air permit, several active air registrations, and several cancelled air permits and registrations. The facility also has active registrations or permits for Industrial and Hazardous Waste, petroleum storage tanks, pollution prevention planning, and wastewater permits. Three underground injection control permits have been cancelled for The Chemours Company FC Ingleside Plant. Information provided from the Oxychem Ingleside Plant query indicated that the site has several active air permits and registrations as well as several that have been cancelled. The facility also has active registrations or permits for Industrial and Hazardous Waste, pollution prevention planning, and wastewater permits. An inactive petroleum storage tank registration was also listed. Information under the RCRA-databases shows that the site is a large quantity generator of hazardous wastes in the petrochemical, industrial gas, alkalies and chlorine, and other basic chemical manufacturing industries.

A listing of the properties identified is provided in the GeoSearch Radius Map Report located in Exhibit B. This exhibit shows the location of the subject property and any located properties, which were contained in the referenced federal and state databases.

3.3. Historical Aerial Photographs

Historical aerial photographs of the subject property from GeoSearch are provided in Exhibit C.

3.3.1. Aerial Photograph – 1950 (1" = 1,000'±)

In this aerial photo from 1950, much of the subject property and surrounding land appears to be farmland. Portions of the southern half of the subject property appear to be shrubland. Along the southern half of the western property boundary, there appears to be a pond, a fenced area for livestock, and possibly a pit associated with oil and gas exploration. The fenced area may contain a windmill based on review of historical topographic maps. Near the center of the northern boundary of the subject property, what may have been an oil or gas well pad can be seen. Irrigation ditches can be seen running north/south and east/west throughout the subject property. To the northeast, east, and northwest of the subject property homesteads can be seen. To the south and west of the southwest portion of the subject property, there appears to be pits associated with oil and gas exploration.

3.3.2. Aerial Photograph – 1961 (1" = 1,000'±)

In this aerial photo from 1961, much of the subject property and surrounding land still appears to be farmland. Additional signs of oil and gas exploration can be seen on the northern portion of the subject

property and the land to the east of the subject property. The pond used by livestock on the east portion of the subject property can be seen. There appears to be a pipeline right-of-way crossing through the subject property from the northern boundary to the eastern boundary.

3.3.3. Aerial Photograph – 1968 (1" = 1,000'±)

In this aerial photo from 1968, much of the subject property and surrounding land still appears to be farmland. Signs of oil and gas exploration on the subject property are no longer prominent features. The pond that was along the western boundary of the subject property appears to have been filled in. The pond along the eastern boundary of the subject property is still present. Additional pipeline right-of-ways can be seen crossing the subject property and the land to the east and south. Signs of oil and gas exploration can still be seen to the east of the subject property and there also appears to be a well pad and pit to the southeast of the subject property.

3.3.4. Aerial Photograph – 1972 (1" = 1,000'±)

In this aerial photo from 1972, the subject property and most surrounding properties appear similar to the previous photo.

3.3.5. Aerial Photograph – 1984 (1" = 1,000'±)

In this aerial photo from 1984, the majority of the subject property is still farmland the southeast portion is shrubland and has two ponds present. There appears to be two small circular tanks or livestock feeding equipment present between the two ponds. Electric transmission lines can be seen along the western boundary of the subject property and crossing through the portion of the subject property that extends further to the west. To the south of the subject property, an electrical substation can be seen. Across SH 361, the San Patricio Municipal Water District treatment complex can be seen.

3.3.6. Aerial Photograph – 1995 (1" = 1,000'±)

In this aerial photo from 1995, the subject property and surrounding land appears similar to the previous photo.

3.3.7. Aerial Photograph – 2004 (1" = 1,000'±)

In this aerial photo from 2004, the subject property and most surrounding land appears similar to the previous photo. To the south of the subject property, the Southcross Energy facility and a group of three aboveground storage tanks can be seen. To the southwest of the subject property, a reservoir for the San Patricio Municipal Water District has been constructed and the electrical substation has been expanded.

3.3.8. Aerial Photograph – 2005 (1" = 1,000'±)

In this aerial photo from 2005, the subject property and surrounding land appears similar to the previous photo.

3.3.9. Aerial Photograph – 2006 (1" = 1,000'±)

In this aerial photo from 2006, the subject property and surrounding land appears similar to the previous photo.

3.3.10. Aerial Photograph – 2008 (1" = 1,000'±)

In this aerial photo from 2008, the subject property and surrounding land appears similar to the previous photo.

3.3.11. Aerial Photograph – 2010 (1" = 1,000'±)

In this aerial photo from 2010, the subject property and surrounding land appears similar to the previous photo.

3.3.12. Aerial Photograph – 2012 (1" = 1,000'±)

In this aerial photo from 2012, the subject property and surrounding land appears similar to the previous photo.

3.3.13. Aerial Photograph – 2014 (1" = 1,000'±)

In this aerial photo from 2014, the subject property and most surrounding land appears similar to the previous photo. To the west of the northeast portion of the subject property, construction activities on the Dome Motel and SR Trident properties can be seen.

3.3.14. Aerial Photograph – 2016 (1" = 1,000'±)

In this aerial photo from 2016, the majority of the subject property is still farmland the southeast portion is shrubland. A pipeline right of way can be seen crossing the subject property from the northern boundary to the eastern boundary. To the west of the northeast portion of the subject property, the Dome Motel and SR Trident properties have been constructed. To the south of the subject property, a pad for the Oxy Ingleside Station can be seen south of the Southcross Energy facility.

3.4. Historical Topographic Maps

Historical topographic maps provide information on the topography of the subject property and surrounding properties, and may contain information on oil and gas exploration and waste disposal. The 1954, 1971, and 1975 maps show pipelines crossing the subject property. The 1971 and 1975 maps also show two tanks to the east of the subject property, two tanks to the south of the subject property, and an oil and gas field present to the east-southeast of the subject property. The 1954 map indicates that electric transmission lines cross along the western boundary of the subject property and through the portion of the subject property that extends farther to the west. The historical topographic maps are provided in Exhibit D.

3.5. City Directories

City Directory services were requested from GeoSearch for this report and the City Directory Report is provided in Exhibit E. No listings were identified for the subject property. The property to the northeast of the subject property was listed as MEKK Inc. in the 2006 listing. Nearby listing to the east included residential listings.

3.6. Fire Insurance Map Records

Historical fire insurance maps were requested from GeoSearch to evaluate the past uses and relevant characteristics of the subject property and surrounding properties. No coverage is available for the subject property; the Fire Insurance Map Report is supplied in Exhibit F.

3.7. Environmental Liens

The Environmental Lien search was performed by GeoSearch; the results are provided in Exhibit G. According to the Environmental Lien search, no environmental liens or activity and use limitations were found for the eight parcels of the subject property.

3.8. Oil and Gas Exploration Records and Water Well Records

A search of the Railroad Commission of Texas's (RRC) records identified eight oil or gas wells on the subject property. Records indicate that ten underground pipelines cross the subject property. These include an abandoned crude oil pipeline operated by Koch Pipeline Company, L.P., an in-service natural gas pipeline operated by Southcross CCNG Gathering LTD., an abandoned natural gas pipeline operated by San Patricio Pipeline LLC, an abandoned nitrogen pipeline operated by Enterprise Products Operating LLC, an in-service natural gas pipeline operated by Southcross CCNG Transmission LTD., an in-service Y-grade NGL pipeline operated by Southcross CCNG NGL Pipeline LTD., an in-service brine pipeline operated by United Brine Pipeline Co, LLC, an in-service ethylene pipeline operated by Buckeye Dev. & Logistics I LLC., an abandoned natural gas pipeline operated by Texline Gas Company, LLC, and an abandoned natural gas pipeline operated by Boardwalk Field Services, LLC. Thirty oil or gas wells were located within 0.5 miles of the subject property. A map showing the RRC results is included in Exhibit H and GeoSearch's Oil and Gas Report is included as Exhibit I.

A search of the RRC's crude oil, gas well liquid, or associated products (H-8) Loss Reports for 2009 to 2017 were reviewed and the reports did not indicate that any spills had been reported on or near the subject property.

GeoSearch did not report any water wells on the subject property. Two water wells were reported within one-half mile of the subject property and were identified as domestic wells. Reported wells were identified in the Texas Water Development Board database. GeoSearch's Water Well Report can be found in Exhibit J.

4. Property Reconnaissance

4.1. General

Ms. Tara Ducrest, an environmental scientist with Hanson, conducted the property reconnaissance visit of the subject property on February 1, 2018. Photographs taken during the property visit are included in Exhibit K.

4.2. Observations

The west and north portions of the subject property were fallow farmland at the time of the site visit. Electric transmission lines were observed along the northern and western property boundaries. Several pipeline warning markers were found along the northern and eastern property boundaries and throughout the subject property. The southeast portion of the subject property appeared to be shrubland with two ponds present at the time of the site visit. Cattle were observed near the pond that is present close to the eastern property boundary. Electric distribution lines and warning markers for a buried communications cable were observed along the eastern property boundary. Piles of harvested cotton were observed in several locations throughout the subject property. Surrounding properties appeared to be mostly farmland at the time of the site visit. Aboveground pipeline appurtenances, ranching equipment, one residential home, and the Price Ranch RV Park were observed to the east of the subject property. Three abandoned aboveground storage tanks, the Oxy Ingleside Station, and a Southcross Energy facility were observed to the south of the subject property. To the southwest, a reservoir for the San Patricio Municipal Water District is present. To the west, a water storage pond for TPCO and the Dome Motel are present. To the north, Laguna Crane Services and SH 35 were observed.

4.3. Pits, Ponds, and Lagoons

No waste disposal pits, ponds, or lagoons were observed on the subject property during the site visit. Two ponds were observed on the southeast portion of the subject property and appear to be used as a water source for cattle.

4.4. Stained Soils

No stained soils were observed on the subject property during the site visit.

4.5. Stressed Vegetation

No signs of stressed vegetation were observed on the subject property during the site visit.

4.6. Possible Presence of Polychlorinated Biphenyls (PCBs)

A transformer lacking a PCB-free marking was observed along the northern portion of the eastern property boundary and should be assumed to contain PCBs. No other signs of PCB presence or contamination were observed.

4.7. Solid Waste Disposal

No signs of solid waste disposal were observed during the site visit.

4.8. Identification of Contaminant Migration Paths

The topography of the subject property is relatively flat, with the southeast portion of the subject property being at a slightly lower elevation. The approximate elevation of the subject property is 20 feet above sea level. The most likely migration path for the subject property would be via airborne contaminants, soil infiltration, or groundwater.

4.9. Wastewater

No wastewater connections were observed on the subject property during the site visit.

4.10. Other Issues

Herbicides and pesticides were most likely applied to the majority of the subject property in the past because it has been used as farmland for many years. If cotton crops were grown on the subject property, arsenical acids may have been used as a defoliant in the past.

5. Interviews

No interviews were conducted for this Phase I ESA.

6. Ecological Summary

6.1. Waters and Wetlands

The subject property was evaluated for the potential presence of wetlands and/or other hydrologic features to assess the possible need for U.S. Army Corps of Engineers (USACE) permit coverage. National Hydrography Dataset (NHD), National Wetlands Inventory (NWI), and National Resource Conservation Service (NRCS) Web Soil Survey (WSS) Hydric Soils Dataset maps, as well as recent aerial imagery, were reviewed. See Exhibit L for NHD Map, Exhibit M for NWI Map, and Exhibit N for WSS Map.

The NWI map shows two mapped features within the subject property, an approximate 0.53 acre PEM1Cx (Palustrine Unconsolidated Bottom Permanently Flooded excavated) feature and an approximate 0.80 acre PUBHx (Palustrine Emergent Persistent Seasonally Flooded excavated) feature (See Exhibit L). NHD and NWI features are mapped from aerial imagery and do not guarantee the presence of waters or wetlands defined in Section 404 of the Clean Water Act (CWA). Furthermore, the NWI uses a biology based definition of wetlands that do not always adhere to the definition of jurisdictional waters and wetlands as defined by Section 404 of the CWA and regulated by USACE. Based on the information obtained from these datasets, it appears that the subject property may contain potentially jurisdictional wetlands or hydrologic features. A waters and wetlands delineation should be performed and coordination with USACE should be initiated in order to obtain an Approved Jurisdictional Determination for the subject property prior to initiation of work.

6.2. Habitat Characterization

The subject property is located in San Patricio County within the San Antonio-Nueces River Basin and is within the Gulf Coast Prairies and Marshes Ecoregion. According to the Ecological Mapping System of Texas (EMST), dominant habitat types within the subject property are Row Crops and Gulf Coast – Coastal Prairie (see Exhibit O). According to the WSS, abundant soil types within the subject property are Victoria clay, 0 to 1 percent slopes (Hydric Rating: 1) and Raymondville clay loam, 0 to 1 percent slopes (Hydric Rating: 5) (see Exhibit N). A Hydric Rating indicates the percentage of the soil type that meets the criteria for hydric soils.

6.3. Historic Resources

According to the Texas Historical Commission's (THC) Texas Historic Site Atlas, no historical markers are located on the subject property. The nearest historical marker, Gregory School, is approximately 1.9 miles west of the subject property (see Exhibit P).

6.4. Federal and State Listed Threatened, Endangered, and Rare Species

San Patricio County has a total of 68 Federal and State listed threatened, endangered, and/or rare species with historical ranges within the County. These species are listed in Exhibit Q. Fifty-seven of the 68 species would not occur at the subject property due to the lack of suitable habitat. Results of a desktop habitat review identified 11 federal and state listed species that may potentially occur at or near the subject property (see Table 6-1 below). In order to determine whether any suitable habitat for any of the 11 species exists at the subject property, further evaluation for threatened and endangered species should be performed.

Table 6-1 – Federal and State Listed Threatened, Endangered, or Rare Species of San Patricio County

Species	Federal Status*	State Status*	Description of Suitable Habitat	Comments
Sheep frog (<i>Hypopachus variolosus</i>)	-	T	Grassland and savanna; moist sites in arid areas.	Suitable habitat believed to occur in or near subject property. Species could potentially occur year-round.
Eskimo Curlew (<i>Numenius borealis</i>)	LE	E	Grasslands, pastures, plowed fields, and less frequently, marshes and mudflats.	Suitable habitat believed to occur in or near subject property. Species could potentially occur year-round.
Henslow's Sparrow (<i>Ammodramus henslowii</i>)	-	-	Weedy fields or cut-over areas where lots of bunch grasses occur along with vines and brambles; bare areas.	Suitable habitat believed to occur in or near subject property. Species could potential occur in wintering months.
Northern Alomado Falcon (<i>Falco femoralis septentrionalis</i>)	LE	E	Open country, especially savanna and open woodland, and sometimes in very barren areas; grassy plains and valleys with scattered mesquite, yucca, and cactus.	Suitable habitat believed to occur in or near subject property. Species could potentially occur year-round.
Sprague's Pipit (<i>Anthus spragueii</i>)	-	-	Native upland prairie, can be locally common in coastal grasslands, uncommon to rare further west; sensitive to patch size and avoids edges.	Suitable habitat believed to occur in or near subject property. Species could potentially occur during migration and winter (mid-September to early April).
Western Burrowing Owl (<i>Athene cunicularia hypugaea</i>)	-	-	Open grasslands, especially prairie, plains, and savanna, sometimes in open areas such as vacant lots near human habitation or airports.	Suitable habitat believed to occur in or near subject property. Species could potentially occur year-round. Nests and roosts in abandoned burrows
Drummond's rushpea (<i>Hoffmannseggia drummondii</i>)	-	-	Open areas on sandy clay.	Suitable habitat believed to occur in or near subject property. Species could potentially occur year-round. Perennial. Global Rank: G4.

Species	Federal Status*	State Status*	Description of Suitable Habitat	Comments
Large selenia (<i>Selenia grandis</i>)	-	-	Occurs in seasonally wet clayey soils in open areas.	Suitable habitat believed to occur in or near subject property. Species could potentially occur year-round. Annual. Global Rank: G4. Flowering January-April; fruiting February-April.
Net-leaf bundleflower (<i>Desmanthus reticulatus</i>)	-	-	Clay prairies of the coastal plain of central and south Texas.	Suitable habitat believed to occur in or near subject property. Species could potentially occur year-round. Perennial. Global Rank: G3. Flowering April-July; fruiting April-October.
Plains gumweed (<i>Grindelia oolepis</i>)	-	-	Coastal prairies on heavy clay (blackland) soils, often in depressional areas, sometimes persisting in areas where management (mowing) may maintain or mimic natural prairie disturbance regimes; 'crawfish lands'; on nearly level Victoria clay, Edroy clay, claypan, possibly Greta within Orelia fine sandy loam over the Beaumont Formation, and Harlingen clay; roadsides, railroad rights-of-ways, vacant lots in urban areas, cemeteries.	Suitable habitat believed to occur in or near subject property. Species could potentially occur year-round. Flowering: April-December.
South Texas spikeseed (<i>Eleocharis austrotexana</i>)	-	-	Occurring in miscellaneous wetlands at scattered locations on the coastal plain.	Suitable habitat believed to occur in or near subject property. Species could potentially occur year-round. Perennial. Global Rank: G3. Flowering /fruiting September.

*T = Threatened, E = Endangered, LE = Federally Listed Endangered, - = Species of Greatest Conservation Need but with no regulatory listing status

7. Conclusion

Hanson Professional Services Inc. conducted a Phase I Environmental Site Assessment (ESA) of approximately 1,048 acres of mostly undeveloped farmland located to the south of State Highway (SH) 35 near Gregory, San Patricio County, Texas. The ESA was performed in accordance with the requirements for the American Society for Testing Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527–13. A preliminary ecological resource characterization was also conducted for this property to supplement the Phase I ESA. This characterization consisted of research and review of information pertaining to waters and wetlands, habitat, historic resources, and threatened, endangered, and rare species.

The majority of the subject property is currently used as farmland which was fallow when a site visit was made on February 1, 2018. The southeast portion of the subject property is mostly shrubland and appears to be used for keeping cattle. Warning markers for buried infrastructure including communication cables and potable water, liquefied petroleum gas, crude oil, ethylene, oxygen, nitrogen, natural gas, mud, and decant pipelines were observed at various locations throughout the subject property.

Information pertaining to potential environmental liabilities resulting from the treating, storing, disposing, discharging, or emitting of hazardous and/or regulated substances was obtained by Hanson Professional Services Inc. through GeoSearch. GeoSearch's search of available government records did not identify any sites located on the subject property. Sites identified within the search radius beyond the subject property include Sherwin Alumina Plant and The Chemours Company FC Ingleside Plant/Oxychem Ingleside Plant. Sherwin Alumina Plant is located approximately 0.37 miles south-southwest of the subject property and was identified in the Industrial and Hazardous Waste Corrective Action Sites (IHWCA) database. The Chemours Company FC Ingleside Plant/Oxychem Ingleside Plant is located 0.61 miles south of the subject property and was identified in the IHWCA, Resource Conservation & Recovery Act – Corrective Action Facilities (RCRAC), and Resource Conservation & Recovery Act – Subject to Corrective Action Facilities (RCRASUBC) databases.

A search of the Railroad Commission of Texas's (RRC) records identified eight oil or gas wells on the subject property. Records indicate that ten underground pipelines cross the subject property. Thirty oil or gas wells were located within 0.5 miles of the subject property.

No stained soil, stressed vegetation, or waste disposal pits ponds, or lagoons were observed on the subject property during the site visit.

Findings

Our review of site information and a property inspection revealed the following recognized environmental conditions (RECs) in connection with the subject property:

On-Site RECs:

- *Past Potential Use of Herbicides and Pesticides* – The north and west portion of the subject property have been used as farmland since at least 1950.
- *Past Oil and Gas Exploration* – One gas well, one plugged gas well, and six dry hole wells were historically drilled on the subject property.

- *Presence of Underground Pipelines* – Ten buried pipelines are present on the subject property, including one abandoned crude oil pipeline, two in-service natural gas pipelines, three abandoned natural gas pipelines, an abandoned nitrogen pipeline, an in-service Y-grade NGL pipeline, an in-service brine pipeline, and an in-service ethylene pipeline.

Off-Site RECs:

- *Presence of Abandoned Tank Battery to South of Subject Property* – A tank battery with three abandoned aboveground storage tanks is present to the south of the eastern portion of the subject property.

Recommendations

Due to the recognized environmental conditions associated with the subject property, a Phase II Environmental Site Assessment is recommended.

The ecological resources characterization found that the subject property may contain potentially jurisdictional wetland or hydrologic features; therefore, a waters and wetlands delineation should be performed and coordination with the U.S. Army Corps of Engineers should be initiated in order to obtain an Approved Jurisdictional Determination for the subject property prior to starting site work.

Eleven Federal and State listed endangered species may potentially occur at or near the subject property. To determine whether suitable habitat for any of the potentially occurring species exists, further evaluation for threatened and endangered species should be performed.

Figure 1

Subject Property Location Map



Figure 1
Subject Property Location Map
Blue Bay Site
Gregory, San Patricio County, Texas



Note: Property Location Shown is Approximate.

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	18E0013	Date:	1-17-18	1 of 1

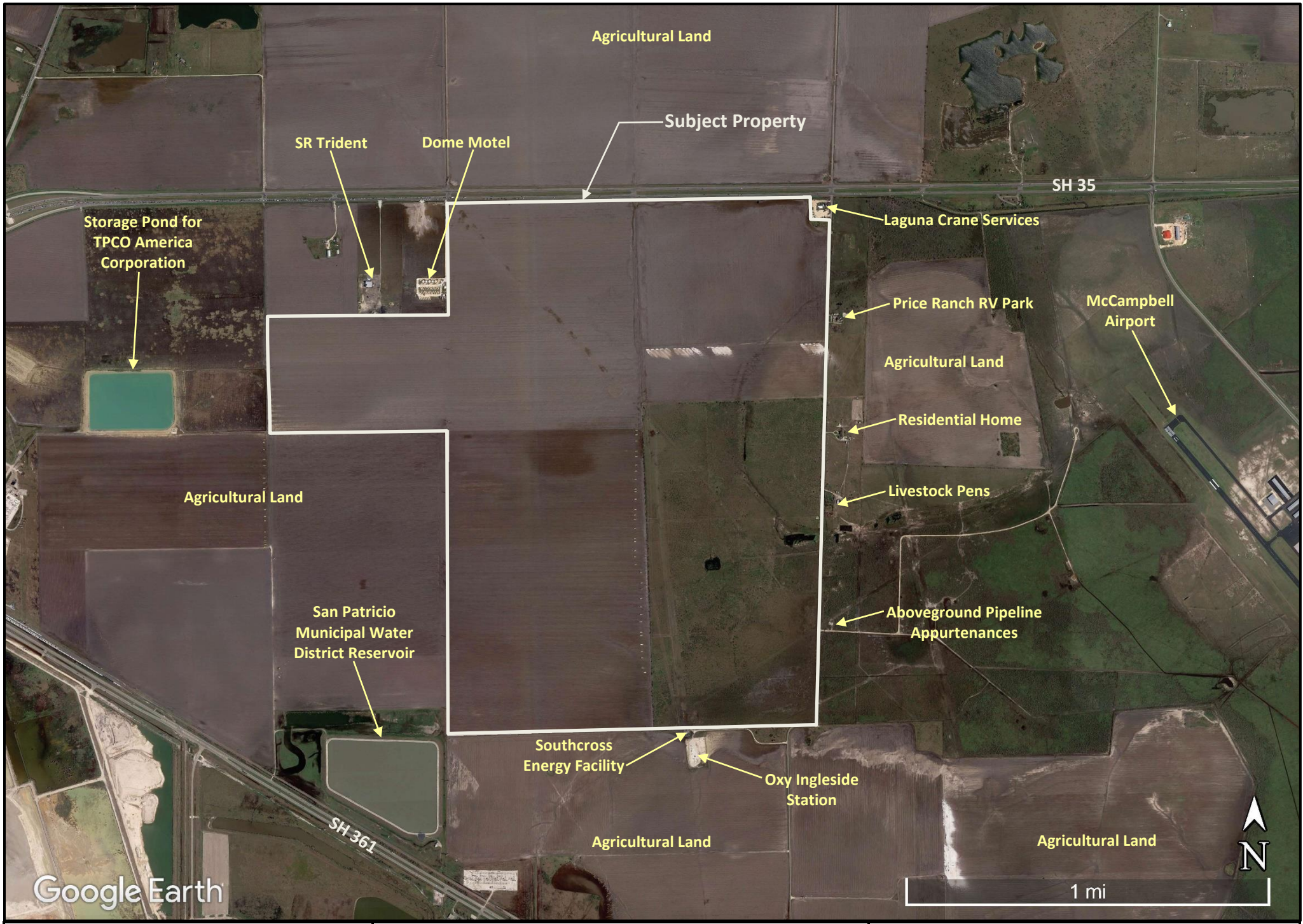
Google Earth

5 mi



Figure 2

Subject Property Detail Map



Note: Property Boundaries Shown are Approximate.

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	18L0013	Date:	1/17/18	1 of 1

Figure 2 - Subject Property Detail Map
Blue Bay Site
Gregory, San Patricio County, TX



Exhibit A

Physical Setting Report



On time. On target. In touch.™

GeoPlus Physical Setting Maps

[Satellite view](#)

Target Property:

CCREDC Blue Bay Site Phase I ESA

State Hwy 35

Gregory, San Patricio County, Texas 78374

Prepared For:

Hanson Professional Services

Order #: 100526

Job #: 219596

Project #: 18L0013

Date: 01/18/2018

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Target Property Summary

Target Property Information

CCREDC Blue Bay Site Phase I ESA

State Hwy 35

Gregory, Texas 78374

Coordinates

Area

USGS Quadrangle

Gregory, TX

Aransas Pass, TX

Geographic Coverage Information

County/Parish: San Patricio (TX)

ZipCode(s):

Aransas Pass TX: 78336

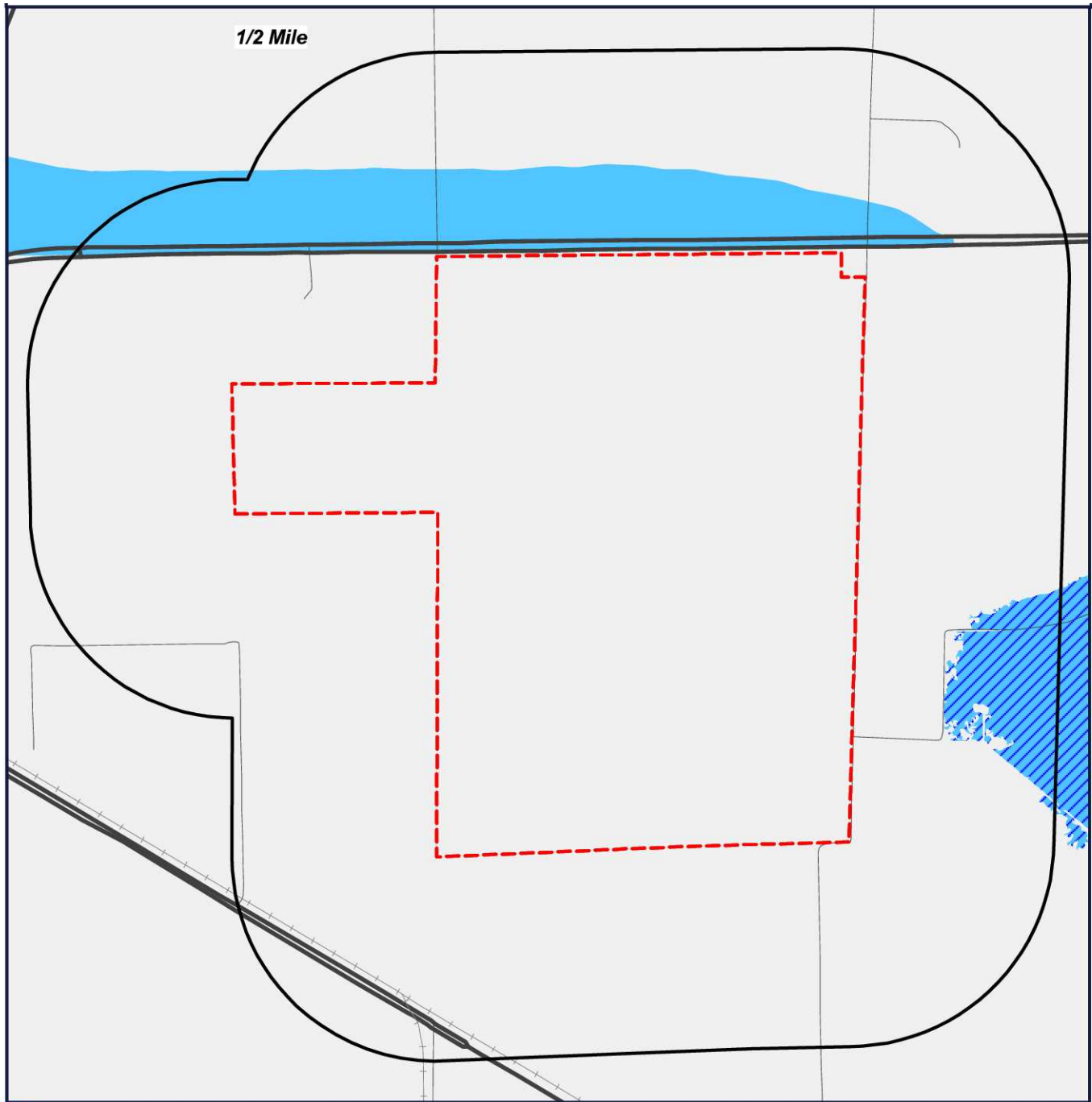
Portland TX: 78374

Radon

* Target property is located in Radon Zone 3.

Zone 3 areas have a predicted average indoor radon screening level less than 2 pCi/L (picocuries per liter).

FEMA Map



Target Property (TP)

	ZONE A		ZONE D
	ZONE AE		ZONE X
	ZONE AH		AREA NOT INCLUDED
	ZONE A0		OPEN WATER
	ZONE AR		NDA - DIGITAL DATA NOT AVAILABLE
	ZONE V		
	ZONE VE		

CCREDC Blue Bay Site Phase I
ESA
State Hwy 35
Gregory, Texas
78374

Letter of map revision date: 12/16/2016
 Latest study effective date: 11/04/2016
 Panel #: 48025C0500C



0' 1000' 2000' 3000'
 SCALE: 1" = 2000'

[Click here to access Satellite view](#)

FEMA Report

FEMA - Federal Emergency Management Agency

The National Flood Hazard Layer (NFHL) data used in this report is derived from the Federal Emergency Management Agency. The NFHL dataset is a compilation of effective Flood Insurance Rate Map (FIRM) databases (a collection of the digital data that are used in GIS systems for creating new Flood Insurance Rate Maps) and Letters of Map Change (Letters of Map Amendment and Letters of Map Revision only) that create a seamless GIS data layer for United States and its territories. The NFHL is updated as new study or LOMC data becomes effective. Note: Currently, not all areas have modernized FIRM database data available. As a result, users may need to refer to the effective Flood Insurance Rate Map for effective flood hazard information. This data was provided by the Federal Emergency Management Agency's Map Service Center in November of 2013.

FEMA Flood Zone Definitions within Search Radius

A	Zone A
----------	---------------

Areas subject to inundation by the 1-percent-annual-chance flood event. Because detailed hydraulic analyses have not been performed, no Base Flood Elevations (BFEs) or flood depths are shown.

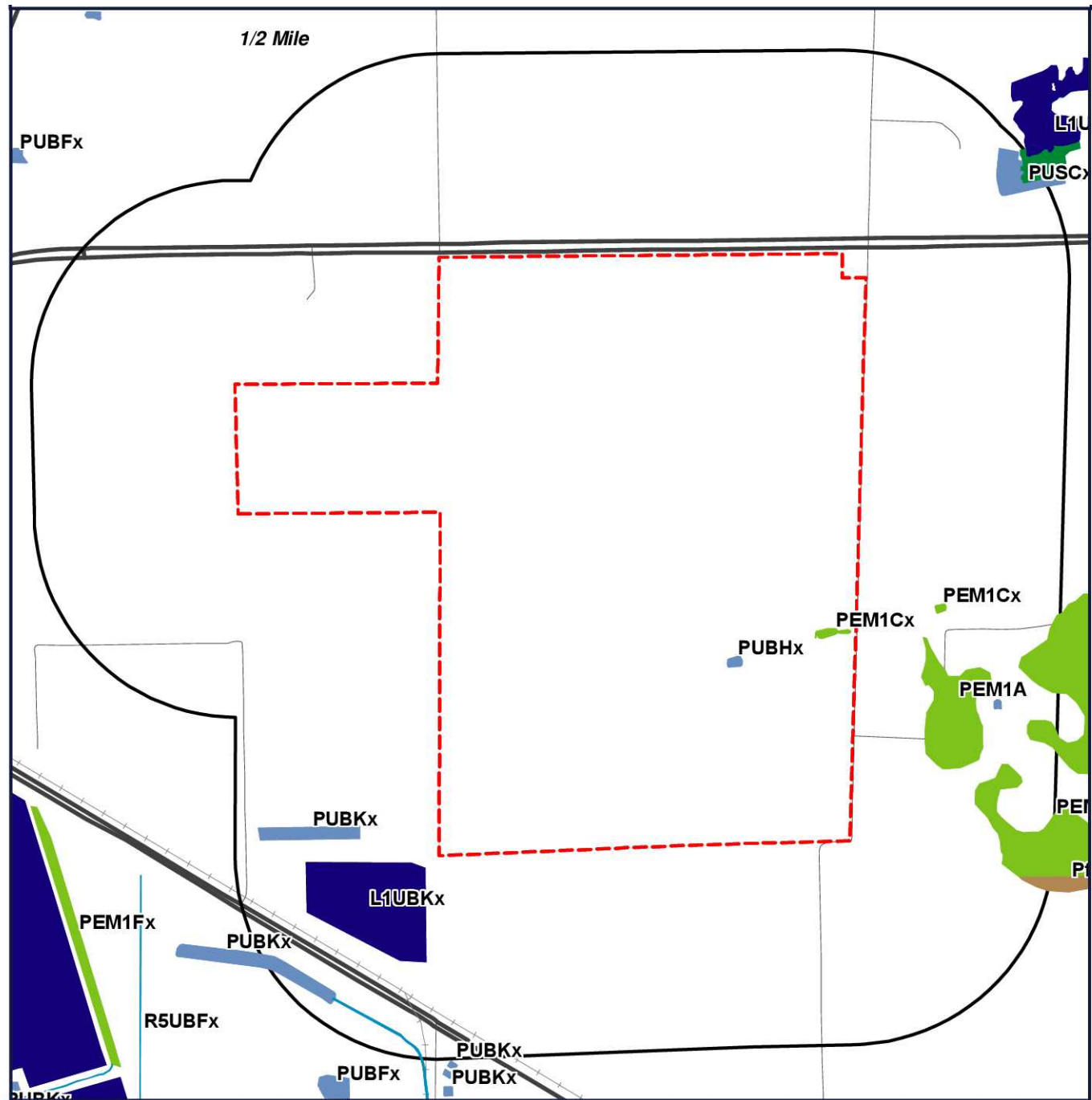
AE	Zone AE
-----------	----------------

Areas subject to inundation by the 1-percent-annual-chance flood event determined by detailed methods. BFEs are shown within these zones. (Zone AE is used on new and revised maps in place of Zones A1–A30.)

X	Zone X
----------	---------------

An area that is determined to be outside the 100 and 500 year floodplains.

NWI Map



Target Property (TP)

CCREDC Blue Bay Site Phase I

Map Date: 11/30/2016

ESTUARINE AND
MARINE DEEPWATER
ESTUARINE AND
MARINE WETLAND
FRESHWATER EMERGENT
WETLAND
FRESHWATER FORESTED/
SHRUB WETLAND

LAKE
OTHER
RIVERINE

FRESHWATER POND
NDA - DIGITAL DATA
NOT AVAILABLE



0' 1000' 2000' 3000'
SCALE: 1" = 2000'

[Click here to access Satellite view](#)

NWI Report

NWI - National Wetlands Inventory

The US NWI digital data bundle is a set of records of wetlands location and classification as defined by the U.S. Fish & Wildlife Service. This dataset is one of a series available in 7.5 minute by 7.5 minute blocks containing ground planimetric coordinates of wetlands point, line, and area features and wetlands attributes. When completed, the series will provide coverage for all of the contiguous United States, Hawaii, Alaska, and U.S. protectorates in the Pacific and Caribbean. The digital data as well as the hardcopy maps that were used as the source for the digital data are produced and distributed by the U.S. Fish & Wildlife Service's National Wetlands Inventory project. Currently, this data is only available in select counties throughout the United States.

NWI Definitions within Search Radius

L1UBHx

SYSTEM: **LACUSTRINE**
SUBSYSTEM: **LIMNETIC**
CLASS: **UNCONSOLIDATED BOTTOM**
WATER REGIME: **PERMANENTLY FLOODED**
SPECIAL MODIFIER: **EXCAVATED**

L1UBKx

SYSTEM: **LACUSTRINE**
SUBSYSTEM: **LIMNETIC**
CLASS: **UNCONSOLIDATED BOTTOM**
WATER REGIME: **ARTIFICIALLY FLOODED**
SPECIAL MODIFIER: **EXCAVATED**

PEM1/SS1A

SYSTEM: **PALUSTRINE**
CLASS: **EMERGENT**
SUBCLASS: **BROAD-LEAVED DECIDUOUS**

PEM1A

SYSTEM: **PALUSTRINE**
CLASS: **EMERGENT**
SUBCLASS: **BROAD-LEAVED DECIDUOUS**
WATER REGIME: **TEMPORARILY FLOODED**

PEM1Cx

SYSTEM: **PALUSTRINE**
CLASS: **EMERGENT**
SUBCLASS: **BROAD-LEAVED DECIDUOUS**
WATER REGIME: **SEASONALLY FLOODED**
SPECIAL MODIFIER: **EXCAVATED**

Pf

SYSTEM: **PALUSTRINE**
SPECIAL MODIFIER: **FARMED**

NWI Report

PSS1Cx

SYSTEM: **PALUSTRINE**
CLASS: **SCRUB-SHRUB**
SUBCLASS: **BROAD-LEAVED DECIDUOUS**
WATER REGIME: **SEASONALLY FLOODED**
SPECIAL MODIFIER: **EXCAVATED**

PUBHx

SYSTEM: **PALUSTRINE**
CLASS: **UNCONSOLIDATED BOTTOM**
SPECIAL MODIFIER: **EXCAVATED**

PUBKx

SYSTEM: **PALUSTRINE**
CLASS: **UNCONSOLIDATED BOTTOM**
SPECIAL MODIFIER: **EXCAVATED**

PUSCx

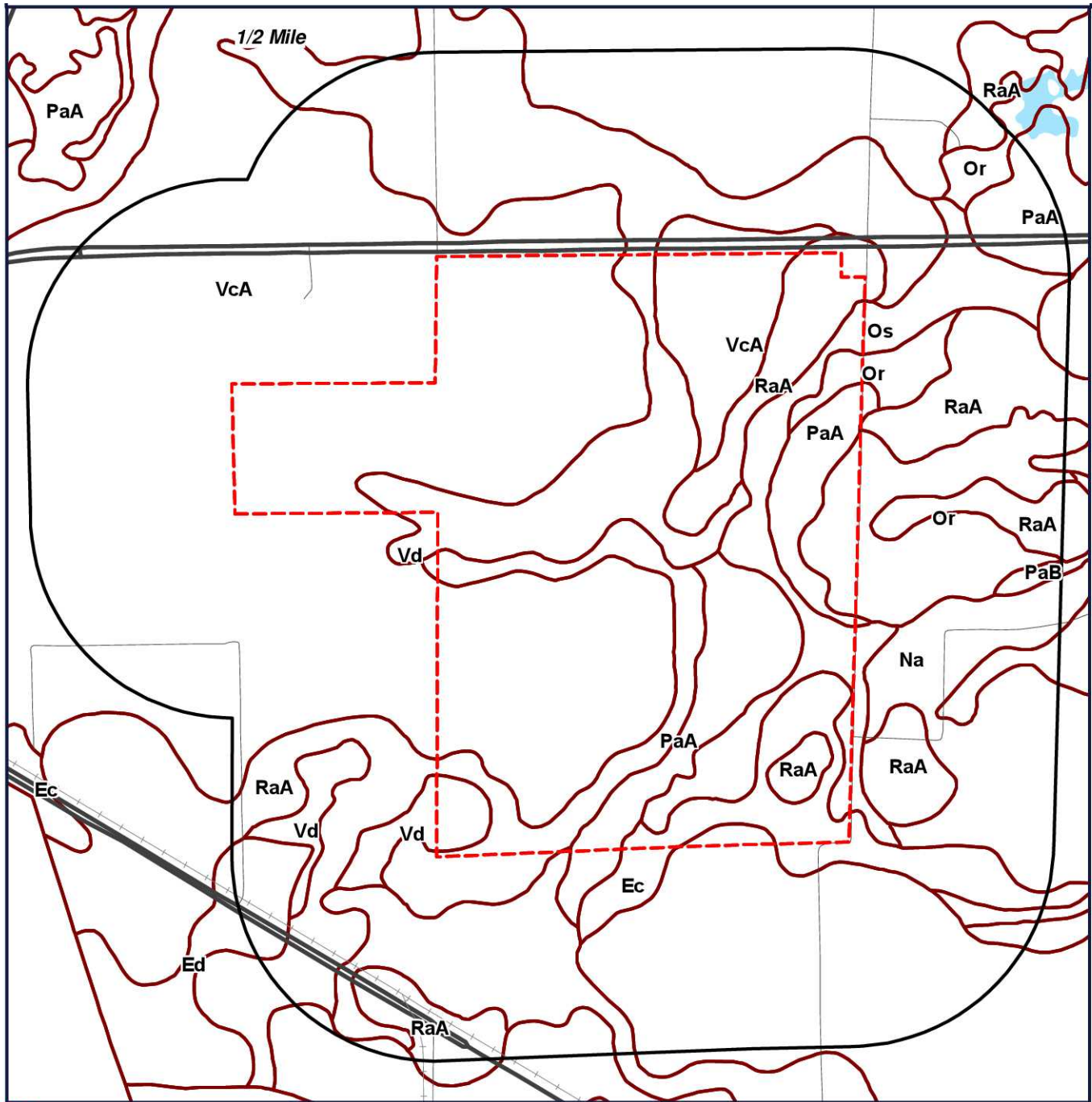
SYSTEM: **PALUSTRINE**
CLASS: **UNCONSOLIDATED SHORE**
SPECIAL MODIFIER: **EXCAVATED**

R2UBHx

SYSTEM: **RIVERINE**
SUBSYSTEM: **LOWER PERENNIAL**
CLASS: **UNCONSOLIDATED BOTTOM**
WATER REGIME: **PERMANENTLY FLOODED**
SPECIAL MODIFIER: **EXCAVATED**

Texas - DIGITAL DATA NOT AVAILABLE

Soil Map



Target Property (TP)

SOIL BOUNDARY

NOTCOM - DIGITAL DATA NOT AVAILABLE/NOT COMPLETE

CCREDC Blue Bay Site Phase I
ESA
State Hwy 35
Gregory, Texas
78374



0' 1000' 2000' 3000'
 SCALE: 1" = 2000'

[Click here to access Satellite view](#)

GeoSearch www.geo-search.com 888-396-0042

SOIL Report

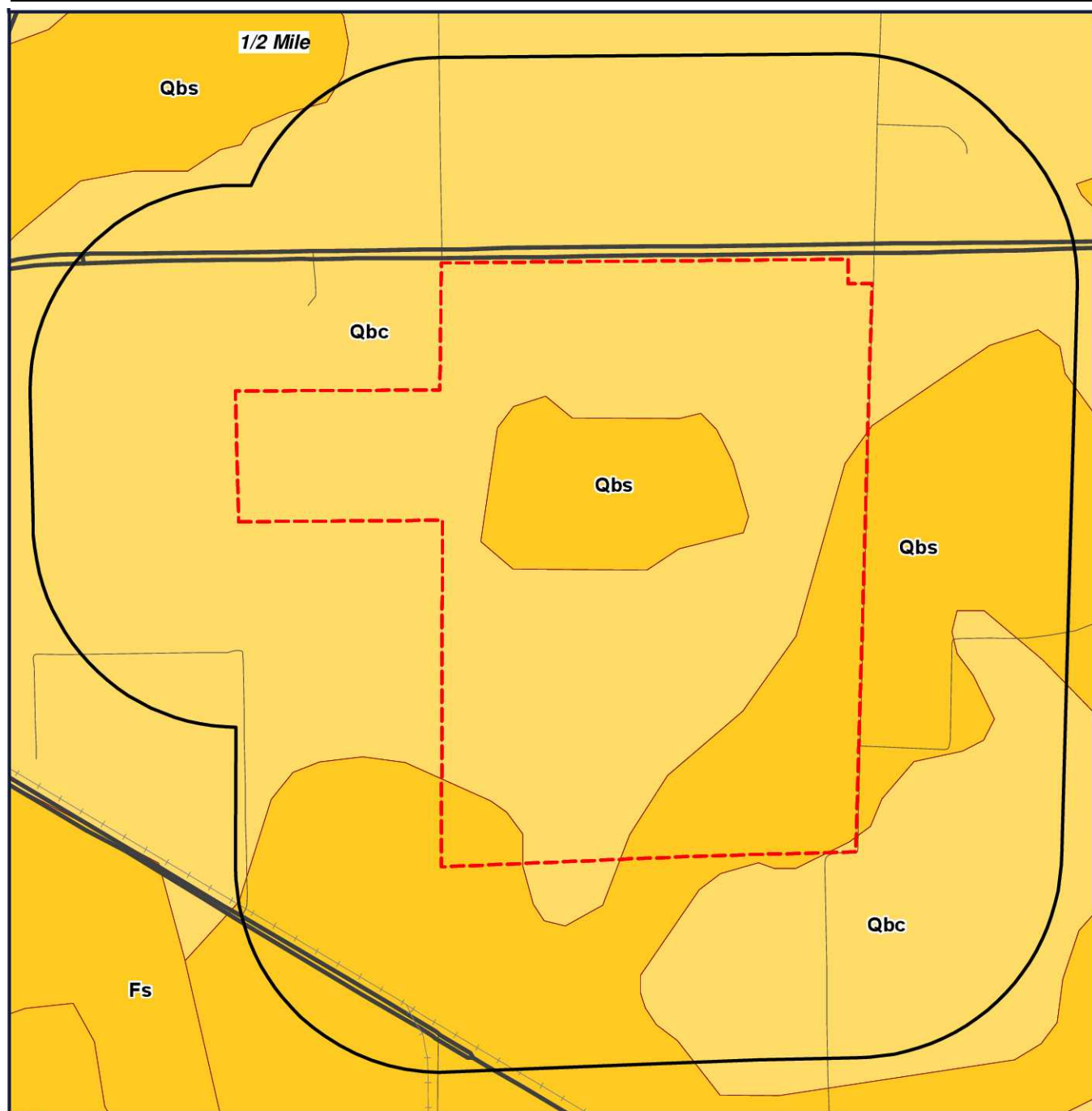
Soil Surveys

The soil data used in this report is obtained from the Natural Resources Conservation Service (NRCS). The NRCS is the primary federal agency that works with private landowners to help them conserve, maintain and improve their natural resources. The soil survey contains information that can be applied in managing farms and ranches; in selecting sites for roads, ponds, buildings and other structures; and in determining the suitability of tracts of land for farming, industry and recreation. This data is available in select counties throughout the United States.

SOIL Code Definitions within Search Radius

As	Aransas clay, 0 to 1 percent slopes, slightly saline, moderately s
Ec	Banquete clay, 0 to 1 percent slopes
Ed	Edroy clay, 0 to 1 percent slopes, ponded
Na	Narta loam, 0 to 1 percent slopes, rarely flooded
Or	Orelia fine sandy loam, 0 to 1 percent slopes
Os	Calallen sandy clay loam, 0 to 1 percent slopes
PaA	Papalote fine sandy loam, 0 to 1 percent slopes
PaB	Papalote fine sandy loam, 1 to 3 percent slopes
RaA	Raymondville clay loam, 0 to 1 percent slopes
RaB	Raymondville clay loam, 1 to 3 percent slopes
VcA	Victoria clay 0 to 1 percent slopes
Vd	Victoria clay, depressional

Geology Map



 Target Property (TP)

CCREDC Blue Bay Site Phase I
ESA
State Hwy 35
Gregory, Texas
78374



0' 1000' 2000' 3000'
SCALE: 1" = 2000'

[Click here to access Satellite view](#)

GEOLOGY Report

US GEOLOGY

THE GEOLOGY DATA USED IN THIS REPORT ORIGINATES FROM THE USGS. THE FIRST STAGE IN DEVELOPING STATE DATABASES FOR THE CONTERMINOUS UNITED STATES WAS TO ACQUIRE DIGITAL VERSIONS OF ALL EXISTING STATE GEOLOGIC MAPS. ALTHOUGH A SIGNIFICANT NUMBER OF DIGITAL STATE MAPS ALREADY EXISTED, A NUMBER OF STATES LACKED THEM. FOR THESE STATES NEW DIGITAL COMPILATIONS WERE PREPARED IN COOPERATION WITH STATE GEOLOGIC SURVEYS OR BY THE NSA (NATIONAL SURVEYS AND ANALYSIS) PROJECT. THESE NEW DIGITAL STATE GEOLOGIC MAPS AND DATABASES WERE CREATED BY DIGITIZING ALREADY EXISTING PRINTED MAPS, OR, IN A FEW CASES, BY MERGING EXISTING LARGER SCALE DIGITAL MAPS.

GEOLOGY Definitions within Search Radius

GEOLOGY SYMBOL: **Qbc**

UNIT NAME: **Beaumont Formation, areas predominantly clay**

UNIT AGE: **Phanerozoic | Cenozoic | Quaternary | Pleistocene-Late**

UNIT DESCRIPTION:

Beaumont Formation, areas predominantly clay

ADDITIONAL UNIT INFORMATION:

On McAllen-Brownsville Sheet (1976) dominantly clay and mud of low permeability. (from Moore and Wermund, 1993a, 1993b): Light- to dark-gray and bluish- to greenish-gray clay and silt, intermixed and interbedded; contains beds and lenses of fine sand, de

ROCKTYPE/S: **clay or mud; silt;**

GEOLOGY SYMBOL: **Qbs**

UNIT NAME: **Beaumont Formation, areas predominantly sand**

UNIT AGE: **Phanerozoic | Cenozoic | Quaternary | Pleistocene-Late**

UNIT DESCRIPTION:

Beaumont Formation, areas predominantly sand

ADDITIONAL UNIT INFORMATION:

(from Moore and Wermund, 1993a, 1993b) Yellowish- to brownish-gray, locally reddish orange, v. fine to fine quartz sand, silt, and minor fine gravel, intermixed and interbedded. Includes stream channel, point-bar, cravasse-splay, and natural levee ridge

ROCKTYPE/S: **sand; silt; clay or mud; gravel**

Exhibit B

Radius Report



On time. On target. In touch.™

Radius Report

[Satellite view](#)

Target Property:

**CCREDC Blue Bay Site Phase I ESA
State Hwy 35
Gregory, San Patricio County, Texas 78374**

Prepared For:

Hanson Professional Services

Order #: 100526

Job #: 219589

Project #: 18L0013

Date: 01/18/2018

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<i>Unlocatable Report</i>	See Attachment
<i>Zip Report</i>	See Attachment

Disclaimer

This report was designed by GeoSearch to meet or exceed the records search requirements of the All Appropriate Inquiries Rule (40 CFR §312.26) and the current version of the ASTM International E1527, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process or, if applicable, the custom requirements requested by the entity that ordered this report. The records and databases of records used to compile this report were collected from various federal, state and local governmental entities. It is the goal of GeoSearch to meet or exceed the 40 CFR §312.26 and E1527 requirements for updating records by using the best available technology. GeoSearch contacts the appropriate governmental entities on a recurring basis. Depending on the frequency with which a record source or database of records is updated by the governmental entity, the data used to prepare this report may be updated monthly, quarterly, semi-annually, or annually.

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Target Property Summary

Target Property Information

CCREDC Blue Bay Site Phase I ESA

State Hwy 35

Gregory, Texas 78374

Coordinates

Area centroid (-97.241547, 27.9171214)

20 feet above sea level

USGS Quadrangle

Gregory, TX

Aransas Pass, TX

Geographic Coverage Information

County/Parish: San Patricio (TX)

ZipCode(s):

Aransas Pass TX: 78336

Ingleside TX: 78362

Portland TX: 78374

Radon

* Target property is located in Radon Zone 3.

Zone 3 areas have a predicted average indoor radon screening level less than 2 pCi/L (picocuries per liter).

Database Summary

FEDERAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
EMERGENCY RESPONSE NOTIFICATION SYSTEM	ERNSTX	0	1	TP/AP
FEDERAL ENGINEERING INSTITUTIONAL CONTROL SITES	EC	0	0	TP/AP
LAND USE CONTROL INFORMATION SYSTEM	LUCIS	0	0	TP/AP
RCRA SITES WITH CONTROLS	RCRASC	0	0	TP/AP
RESOURCE CONSERVATION & RECOVERY ACT - GENERATOR	RCRAGR06	0	0	0.1250
RESOURCE CONSERVATION & RECOVERY ACT - NON-GENERATOR	RCRANGR06	0	0	0.1250
FEMA OWNED STORAGE TANKS	FEMAUST	0	0	0.2500
BROWNFIELDS MANAGEMENT SYSTEM	BF	0	0	0.5000
DELISTED NATIONAL PRIORITIES LIST	DNPL	0	0	0.5000
NO LONGER REGULATED RCRA NON-CORRACTS TSD FACILITIES	NLRRCRAT	0	0	0.5000
RESOURCE CONSERVATION & RECOVERY ACT - NON-CORRACTS TREATMENT, STORAGE & DISPOSAL FACILITIES	RCRAT	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM	SEMS	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM ARCHIVED SITE INVENTORY	SEMSARCH	0	0	0.5000
NATIONAL PRIORITIES LIST	NPL	0	0	1.0000
NO LONGER REGULATED RCRA CORRECTIVE ACTION FACILITIES	NLRRCRAC	0	0	1.0000
PROPOSED NATIONAL PRIORITIES LIST	PNPL	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - CORRECTIVE ACTION FACILITIES	RCRAC	1	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - SUBJECT TO CORRECTIVE ACTION FACILITIES	RCRASUBC	1	0	1.0000
SUB-TOTAL		2	1	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIR FACILITY SUBSYSTEM	AIRSAFS	0	0	TP/AP
BIENNIAL REPORTING SYSTEM	BRS	0	0	TP/AP
CERCLIS LIENS	SFLIENS	0	0	TP/AP
CLANDESTINE DRUG LABORATORY LOCATIONS	CDL	0	0	TP/AP
EPA DOCKET DATA	DOCKETS	0	0	TP/AP
ENFORCEMENT AND COMPLIANCE HISTORY INFORMATION	ECHOR06	0	0	TP/AP

Database Summary

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
FACILITY REGISTRY SYSTEM	FRSTX	0	0	TP/AP
HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM	HMIRSR06	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM (FORMERLY DOCKETS)	ICIS	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	ICISNPDES	0	0	TP/AP
MATERIAL LICENSING TRACKING SYSTEM	MLTS	0	0	TP/AP
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	NPDESR06	0	0	TP/AP
PCB ACTIVITY DATABASE SYSTEM	PADS	0	0	TP/AP
PERMIT COMPLIANCE SYSTEM	PCSR06	0	0	TP/AP
SEMS LIEN ON PROPERTY	SEMSLIENS	0	0	TP/AP
SECTION SEVEN TRACKING SYSTEM	SSTS	0	0	TP/AP
TOXIC SUBSTANCE CONTROL ACT INVENTORY	TSCA	0	0	TP/AP
TOXICS RELEASE INVENTORY	TRI	0	0	TP/AP
ALTERNATIVE FUELING STATIONS	ALTFUELS	0	0	0.2500
HISTORICAL GAS STATIONS	HISTPST	0	0	0.2500
INTEGRATED COMPLIANCE INFORMATION SYSTEM DRYCLEANERS	ICISCLEANERS	0	0	0.2500
MINE SAFETY AND HEALTH ADMINISTRATION MASTER INDEX FILE	MSHA	0	0	0.2500
MINERAL RESOURCE DATA SYSTEM	MRDS	0	0	0.2500
OPEN DUMP INVENTORY	ODI	0	0	0.5000
SURFACE MINING CONTROL AND RECLAMATION ACT SITES	SMCRA	0	0	0.5000
URANIUM MILL TAILINGS RADIATION CONTROL ACT SITES	USUMTRCA	0	0	0.5000
DEPARTMENT OF DEFENSE SITES	DOD	0	0	1.0000
FORMER MILITARY NIKE MISSILE SITES	NMS	0	0	1.0000
FORMERLY USED DEFENSE SITES	FUDS	0	0	1.0000
FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM	FUSRAP	0	0	1.0000
RECORD OF DECISION SYSTEM	RODS	0	0	1.0000
SUB-TOTAL		0	0	

Database Summary

STATE (TX) LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
STATE INSTITUTIONAL/ENGINEERING CONTROL SITES	SIEC01	0	0	TP/AP
DRY CLEANER REGISTRATION DATABASE	DCR	0	0	0.2500
PETROLEUM STORAGE TANKS	PST	0	0	0.2500
BROWNFIELDS SITE ASSESSMENTS	BSA	0	0	0.5000
CLOSED & ABANDONED LANDFILL INVENTORY	CALE	0	0	0.5000
LEAKING PETROLEUM STORAGE TANKS	LPST	0	0	0.5000
MUNICIPAL SOLID WASTE LANDFILL SITES	MSWLF	0	0	0.5000
RADIOACTIVE WASTE SITES	RWS	0	0	0.5000
RAILROAD COMMISSION VCP AND BROWNFIELD SITES	RRCVCP	0	0	0.5000
VOLUNTARY CLEANUP PROGRAM SITES	VCP	0	0	0.5000
INDUSTRIAL AND HAZARDOUS WASTE CORRECTIVE ACTION SITES	IHWCA	3	0	1.0000
STATE SUPERFUND SITES	SF	0	0	1.0000
SUB-TOTAL		3	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
GROUNDWATER CONTAMINATION CASES	GWCC	0	0	TP/AP
HISTORIC GROUNDWATER CONTAMINATION CASES	HISTGWCC	0	0	TP/AP
MUNICIPAL SETTING DESIGNATIONS	MSD	0	0	TP/AP
NOTICE OF VIOLATIONS	NOV	0	0	TP/AP
SPILLS LISTING	SPILLS	0	0	TP/AP
TCEQ LIENS	LIENS	0	0	TP/AP
TIER I I CHEMICAL REPORTING PROGRAM FACILITIES	TIERII	0	0	TP/AP
INDUSTRIAL AND HAZARDOUS WASTE SITES	IHW	0	0	0.2500
PERMITTED INDUSTRIAL HAZARDOUS WASTE SITES	PIHW	0	0	0.2500
AFFECTED PROPERTY ASSESSMENT REPORTS	APAR	0	0	0.5000
DRY CLEANER REMEDIATION PROGRAM SITES	DCRPS	0	0	0.5000
INNOCENT OWNER / OPERATOR DATABASE	IOP	0	0	0.5000
RECYCLING FACILITIES	WMRE	0	0	0.5000
SALT CAVERNS FOR PETROLEUM STORAGE	STCV	0	0	0.5000
SUB-TOTAL		0	0	

Database Summary

Database Summary

TRIBAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	USTR06	0	0	0.2500
LEAKING UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	LUSTR06	0	0	0.5000
OPEN DUMP INVENTORY ON TRIBAL LANDS	ODINDIAN	0	0	0.5000
SUB-TOTAL		0	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
INDIAN RESERVATIONS	INDIANRES	0	0	1.0000
SUB-TOTAL		0	0	
TOTAL		5	1	

Database Radius Summary

FEDERAL LISTING

Standard environmental records are displayed in **bold**.

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
AIRSAFS	0.0200	0	NS	NS	NS	NS	NS	0
BRS	0.0200	0	NS	NS	NS	NS	NS	0
CDL	0.0200	0	NS	NS	NS	NS	NS	0
DOCKETS	0.0200	0	NS	NS	NS	NS	NS	0
EC	0.0200	0	NS	NS	NS	NS	NS	0
ECHOR06	0.0200	0	NS	NS	NS	NS	NS	0
ERNSTX	0.0200	0	NS	NS	NS	NS	NS	0
FRSTX	0.0200	0	NS	NS	NS	NS	NS	0
HMIRSR06	0.0200	0	NS	NS	NS	NS	NS	0
ICIS	0.0200	0	NS	NS	NS	NS	NS	0
ICISNPDES	0.0200	0	NS	NS	NS	NS	NS	0
LUCIS	0.0200	0	NS	NS	NS	NS	NS	0
MLTS	0.0200	0	NS	NS	NS	NS	NS	0
NPDES06	0.0200	0	NS	NS	NS	NS	NS	0
PADS	0.0200	0	NS	NS	NS	NS	NS	0
PCSR06	0.0200	0	NS	NS	NS	NS	NS	0
RCRASC	0.0200	0	NS	NS	NS	NS	NS	0
SEMSLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SFLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SSTS	0.0200	0	NS	NS	NS	NS	NS	0
TRI	0.0200	0	NS	NS	NS	NS	NS	0
TSCA	0.0200	0	NS	NS	NS	NS	NS	0
RCRAGR06	0.1250	0	0	NS	NS	NS	NS	0
RCRANGR06	0.1250	0	0	NS	NS	NS	NS	0
ALTFUELS	0.2500	0	0	0	NS	NS	NS	0
FEMAUST	0.2500	0	0	0	NS	NS	NS	0
HISTPST	0.2500	0	0	0	NS	NS	NS	0
ICISCLEANERS	0.2500	0	0	0	NS	NS	NS	0
MRDS	0.2500	0	0	0	NS	NS	NS	0
MSHA	0.2500	0	0	0	NS	NS	NS	0
BF	0.5000	0	0	0	0	NS	NS	0
DNPL	0.5000	0	0	0	0	NS	NS	0
NLRRCRAT	0.5000	0	0	0	0	NS	NS	0
ODI	0.5000	0	0	0	0	NS	NS	0
RCRAT	0.5000	0	0	0	0	NS	NS	0

Database Radius Summary

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
SEMS	0.5000	0	0	0	0	NS	NS	0
SEMSARCH	0.5000	0	0	0	0	NS	NS	0
SMCRA	0.5000	0	0	0	0	NS	NS	0
USUMTRCA	0.5000	0	0	0	0	NS	NS	0
DOD	1.0000	0	0	0	0	0	NS	0
FUDS	1.0000	0	0	0	0	0	NS	0
FUSRAP	1.0000	0	0	0	0	0	NS	0
NLRRCRAC	1.0000	0	0	0	0	0	NS	0
NMS	1.0000	0	0	0	0	0	NS	0
NPL	1.0000	0	0	0	0	0	NS	0
PNPL	1.0000	0	0	0	0	0	NS	0
RCRAC	1.0000	0	0	0	0	1	NS	1
RCRASUBC	1.0000	0	0	0	0	1	NS	1
RODS	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		0	0	0	0	2	0	2

Database Radius Summary

STATE (TX) LISTING

Standard environmental records are displayed in **bold**.

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
GWCC	0.0200	0	NS	NS	NS	NS	NS	0
HISTGWCC	0.0200	0	NS	NS	NS	NS	NS	0
LIENS	0.0200	0	NS	NS	NS	NS	NS	0
MSD	0.0200	0	NS	NS	NS	NS	NS	0
NOV	0.0200	0	NS	NS	NS	NS	NS	0
SIEC01	0.0200	0	NS	NS	NS	NS	NS	0
SPILLS	0.0200	0	NS	NS	NS	NS	NS	0
TIERII	0.0200	0	NS	NS	NS	NS	NS	0
DCR	0.2500	0	0	0	NS	NS	NS	0
IHW	0.2500	0	0	0	NS	NS	NS	0
PIHW	0.2500	0	0	0	NS	NS	NS	0
PST	0.2500	0	0	0	NS	NS	NS	0
APAR	0.5000	0	0	0	0	NS	NS	0
BSA	0.5000	0	0	0	0	NS	NS	0
CALF	0.5000	0	0	0	0	NS	NS	0
DCRPS	0.5000	0	0	0	0	NS	NS	0
IOP	0.5000	0	0	0	0	NS	NS	0
LPST	0.5000	0	0	0	0	NS	NS	0
MSWLF	0.5000	0	0	0	0	NS	NS	0
RRCVCP	0.5000	0	0	0	0	NS	NS	0
RWS	0.5000	0	0	0	0	NS	NS	0
STCV	0.5000	0	0	0	0	NS	NS	0
VCP	0.5000	0	0	0	0	NS	NS	0
WMRF	0.5000	0	0	0	0	NS	NS	0
IHWCA	1.0000	0	0	0	1	2	NS	3
SF	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		0	0	0	1	2	0	3

Database Radius Summary

TRIBAL LISTING

Standard environmental records are displayed in **bold**.

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
USTR06	0.2500	0	0	0	NS	NS	NS	0
LUSTR06	0.5000	0	0	0	0	NS	NS	0
ODINDIAN	0.5000	0	0	0	0	NS	NS	0
INDIANRES	1.0000	0	0	0	0	0	NS	0

SUB-TOTAL		0	0	0	0	0	0	0
-----------	--	---	---	---	---	---	---	---

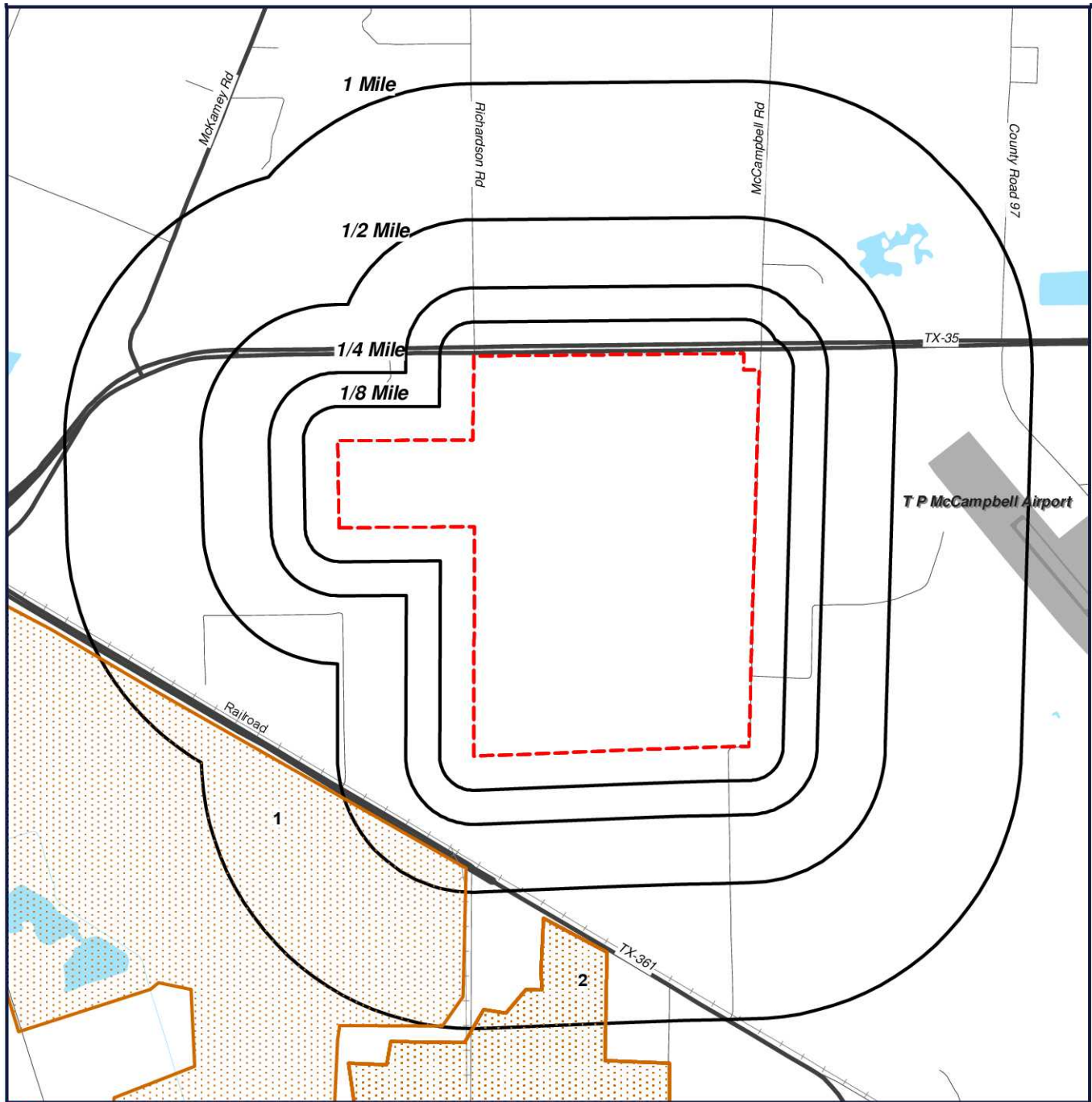
TOTAL		0	0	0	1	4	0	5
-------	--	---	---	---	---	---	---	---

NOTES:

NS = NOT SEARCHED

TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Radius Map 1



- Target Property (TP)
- IHWCA
- RCRASUBC
- RCRAC

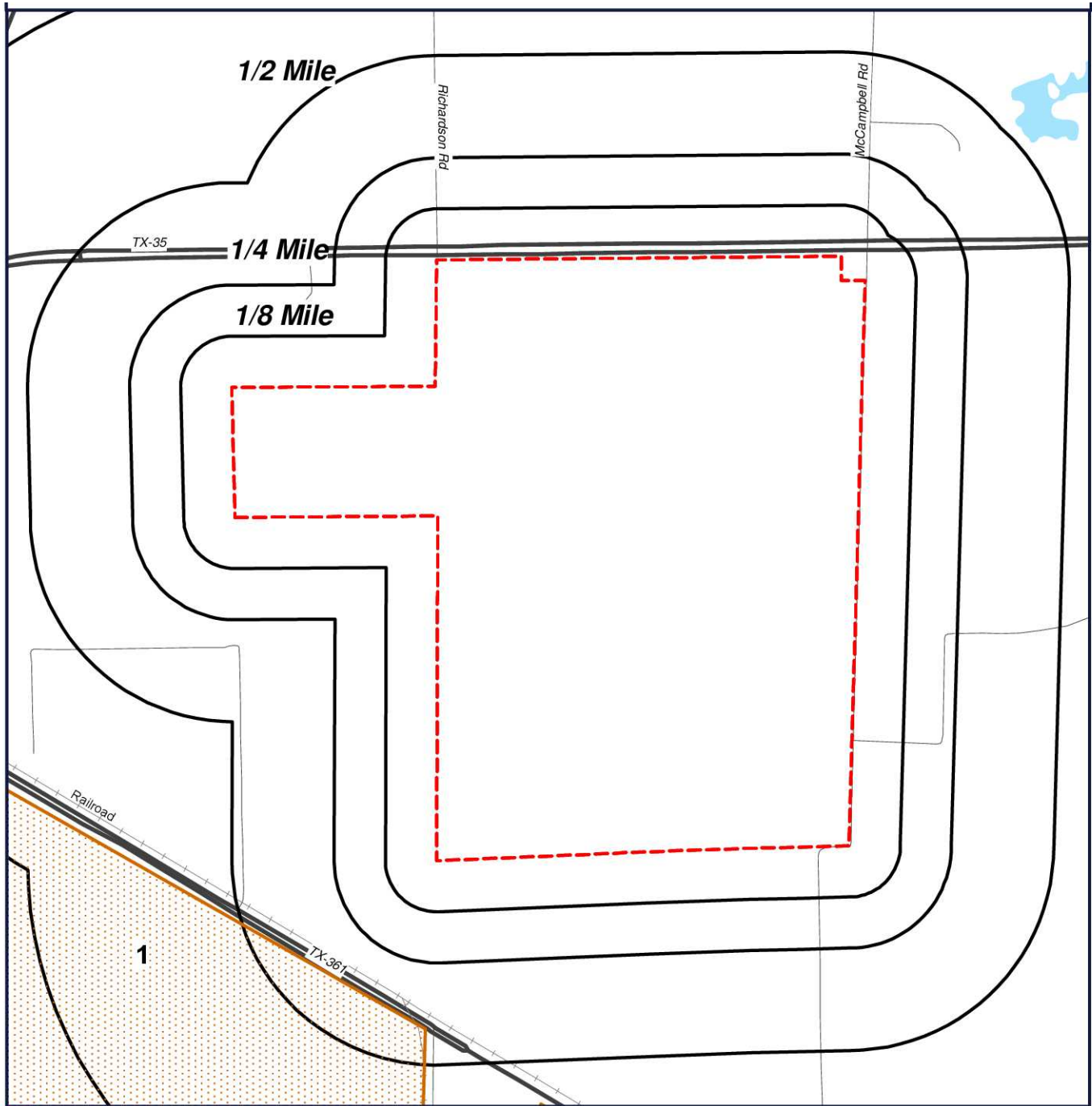
CCREDC Blue Bay Site Phase I
ESA
State Hwy 35
Gregory, Texas
78374



0' 1500' 3000' 4500'
 SCALE: 1" = 3000'

[Click here to access Satellite view](#)

Radius Map 2



-  Target Property (TP)
-  IHWCA
-  RCRASUBC
-  RCRAC

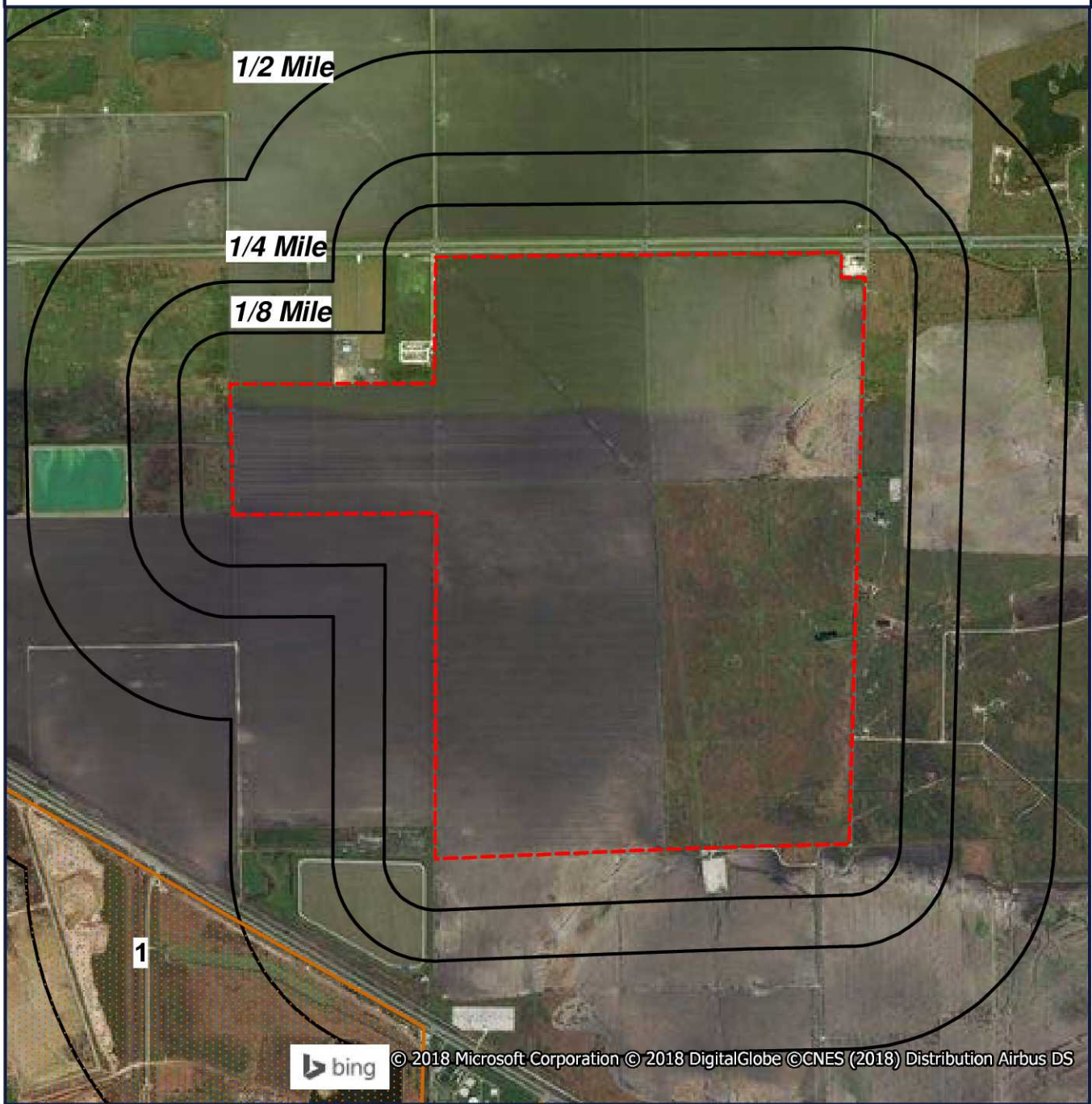
CCREDC Blue Bay Site Phase I
ESA
State Hwy 35
Gregory, Texas
78374



0' 1000' 2000' 3000'
 SCALE: 1" = 2000'

[Click here to access Satellite view](#)

Ortho Map



- Target Property (TP)
- IHWCA
- RCRASUBC
- RCRAC

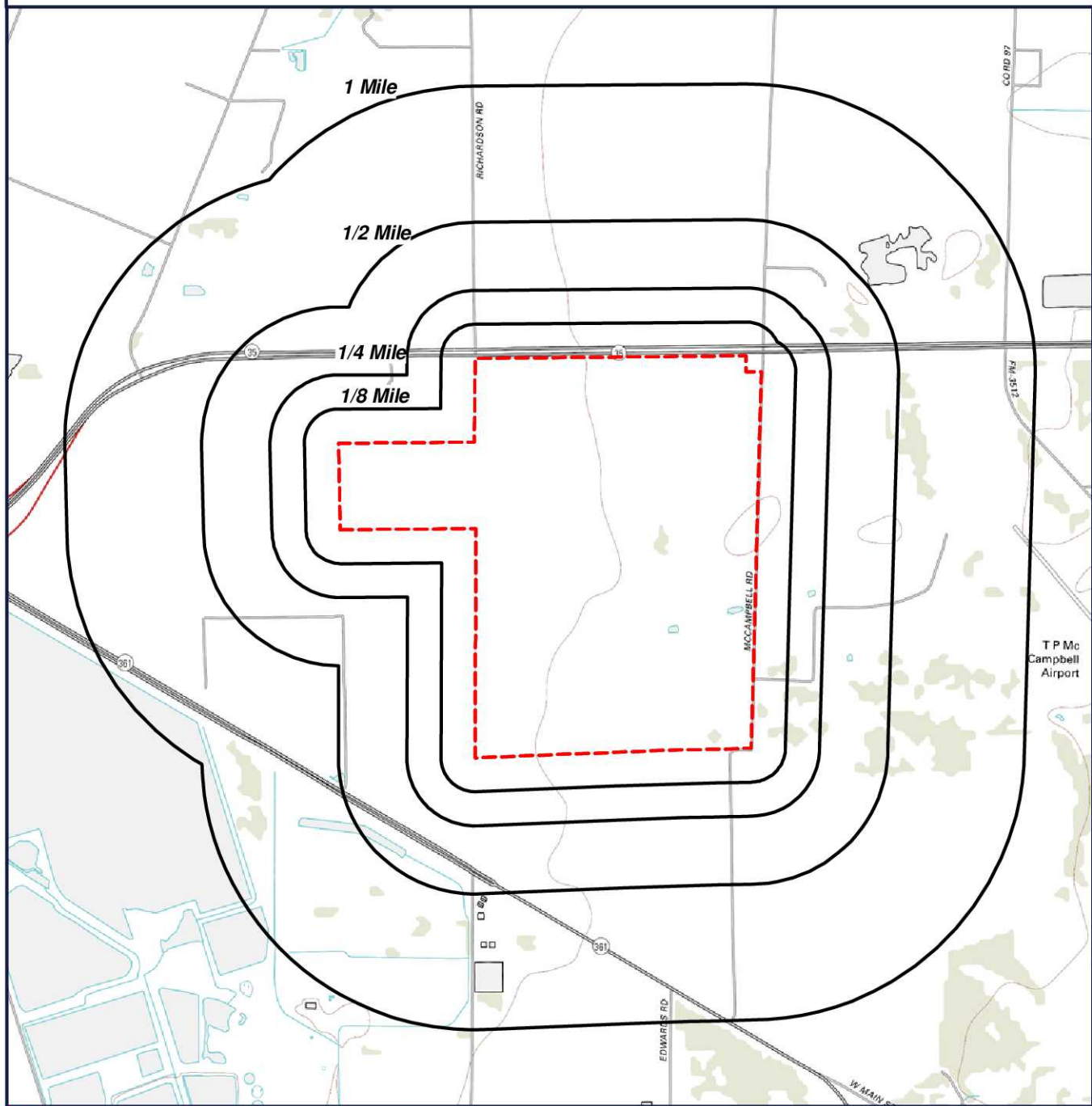
**Quadrangle(s): Gregory,
Aransas Pass
CCREDC Blue Bay Site Phase I
ESA
State Hwy 35
Gregory, Texas
78374**



0' 1000' 2000' 3000'
SCALE: 1" = 2000'

[Click here to access Satellite view](#)

Topographic Map



 Target Property (TP)

**Quadrangle(s): Gregory,
Aransas Pass**
Source: USGS, 02/01/2013
CCREDC Blue Bay Site Phase I
ESA
State Hwy 35
Gregory, Texas
78374



0' 1500' 3000' 4500'
SCALE: 1" = 3000'

[Click here to access Satellite view](#)

Located Sites Summary

NOTE: Standard environmental records are displayed in **bold**.

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
1	IHWCA	30097	Higher (21 ft.)	0.371 mi. SSW (1959 ft.)	SHERWIN ALUMINA PLANT	4633 HIGHWAY 361, GREGORY, TX 78359	17
2	IHWCA	30018	Lower (17 ft.)	0.606 mi. S (3200 ft.)	THE CHEMOURS COMPANY FC INGLESIDE PLANT	GREGORY, TX	18
2	IHWCA	38280	Lower (17 ft.)	0.606 mi. S (3200 ft.)	OXYCHEM INGLESIDE PLANT	GREGORY, TX	19
2	RCRAC	TXD063101794	Lower (17 ft.)	0.606 mi. S (3200 ft.)	THE CHEMOURS COMPANY FC INGLESIDE PLANT	4127 HIGHWAY 361, INGLESIDE, TX 78362	20
2	RCRASUBC	TXD982286932	Lower (17 ft.)	0.606 mi. S (3200 ft.)	OCCIDENTAL CHEMICAL OXYCHEM INGLESIDE PLANT	4133 HWY 361, GREGORY, TX 78359	28

Elevation Summary

Elevations are collected from the USGS 3D Elevation Program 1/3 arc-second (approximately 10 meters) layer hosted at the NGTOC. .

Target Property Elevation: 20 ft.

NOTE: Standard environmental records are displayed in **bold**.

EQUAL/HIGHER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
1	IHWCA	21 ft.	SHERWIN ALUMINA PLANT	4633 HIGHWAY 361, GREGORY, TX 78359	17

LOWER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
2	IHWCA	17 ft.	THE CHEMOURS COMPANY FC INGLESIDE PLANT	GREGORY, TX	18
2	IHWCA	17 ft.	OXYCHEM INGLESIDE PLANT	GREGORY, TX	19
2	RCRAC	17 ft.	THE CHEMOURS COMPANY FC INGLESIDE PLANT	4127 HIGHWAY 361, INGLESIDE, TX 78362	20
2	RCRASUBC	17 ft.	OCCIDENTAL CHEMICAL OXYCHEM INGLESIDE PLANT	4133 HWY 361, GREGORY, TX 78359	28

Industrial and Hazardous Waste Corrective Action Sites (IHWCA)

[MAP ID# 1](#)

Distance from Property: 0.371 mi. (1,959 ft.) SSW
Elevation: 21 ft. (Higher than TP)

PROGRAM ID: 30097

RN NUMBER: RN105190482

NAME: SHERWIN ALUMINA PLANT

ADDRESS: 4633 HIGHWAY 361

GREGORY, TX 78359

STATUS: ACTIVE

STATUS DATE: 11/9/2016

LOCATION DESCRIPTION:

REFER TO RN102318847 FOR OTHER PROGRAM INTEREST/ADDIT ID. THAT RN HAS AN ACCESS ERROR.

[Back to Report Summary](#)

Industrial and Hazardous Waste Corrective Action Sites (IHWCA)

[MAP ID# 2](#)

Distance from Property: 0.606 mi. (3,200 ft.) S
Elevation: 17 ft. (Lower than TP)

PROGRAM ID: 30018

RN NUMBER: RN101623254

NAME: THE CHEMOURS COMPANY FC INGLESIDE PLANT

ADDRESS: NOT REPORTED
GREGORY, TX

STATUS: ACTIVE

STATUS DATE: 12/8/1998

LOCATION DESCRIPTION:

3 MI SE OF GREGORY ON HWY 361

[Back to Report Summary](#)

Industrial and Hazardous Waste Corrective Action Sites (IHWCA)

[MAP ID# 2](#)

Distance from Property: 0.606 mi. (3,200 ft.) S
Elevation: 17 ft. (Lower than TP)

PROGRAM ID: 38280

RN NUMBER: RN100211176

NAME: OXYCHEM INGLESIDE PLANT

ADDRESS: NOT REPORTED
GREGORY, TX

STATUS: INACTIVE

STATUS DATE: 1/22/2003

LOCATION DESCRIPTION:

TWO MILES WEST OF HWY 1069 ON HWY 361

[Back to Report Summary](#)

Resource Conservation & Recovery Act - Corrective Action Facilities (RCRAC)

MAP ID# 2

Distance from Property: 0.606 mi. (3,200 ft.) S
Elevation: 17 ft. (Lower than TP)

FACILITY INFORMATION

EPA ID#: TXD063101794

NAME: THE CHEMOURS COMPANY FC INGLESIDE PLANT

ADDRESS: 4127 HIGHWAY 361

INGLESIDE, TX 78362

CONTACT NAME: RICARDO ORTIZ

CONTACT ADDRESS: PO BOX JJ

INGLESIDE TX 78362-0920

CONTACT PHONE: 361-776-6620

NON-NOTIFIER: NOT A NON-NOTIFIER

DATE RECEIVED BY AGENCY: 02/21/2017

OWNER TYPE: PRIVATE

OWNER NAME: THE CHEMOURS COMPANY FC LLC

OPERATOR TYPE: PRIVATE

OPERATOR NAME: THE CHEMOURS COMPANY FC LLC

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
RICARDO ORTIZ	SAFETY HEALTH & ENVIRONMENTAL MANAGER	02/21/2017
RICARDO ORTIZ	AUTHORIZED COMPANY AGENT	03/01/2016
RICARDO ORTIZ	SAFETY HEALTH & ENVIRONMENTAL MANAGER	02/22/2016
RICARDO ORTIZ	SAFETY HEALTH & ENVIRONMENTAL MANAGER	03/31/2015
RICARDO ORTIZ	SAFETY HEALTH & ENVIRONMENTAL MANAGER	02/26/2015
RICARDO ORTIZ	SAFETY HEALTH & ENVIRONMENTAL MANAGER	02/26/2015
RICARDO ORTIZ	SAFETY HEALTH & ENVIRONMENTAL MANAGER	02/09/2015
JANET USTRUCK	SHEA ASSISTANT	07/22/2014
JANET USTRUCK	SHEA ASSISTANT	06/09/2014
JANET USTRUCK	SHEA ASSISTANT	03/28/2014
JANET USTRUCK	AUTHORIZED COMPANY AGENT	03/01/2014
JANET USTRUCK	SHEA ASSISTANT	12/11/2013
JANET USTRUCK	SHEA ASSISTANT	05/09/2013
JANET USTRUCK	SHEA ASSISTANT	04/23/2013
JANET USTRUCK	SHEA ASSISTANT	11/15/2012
JANET USTRUCK	ENV MGR	06/12/2012
JANET USTRUCK	AUTHORIZED COMPANY AGENT	03/01/2012
JANET USTRUCK	ENV MGR	02/29/2012
JANET USTRUCK	SHEA ASSISTANT	07/08/2011
JANET USTRUCK	SHEA ASSISTANT	06/28/2011
JANET USTRUCK	SHEA ASSISTANT	06/21/2011
JANET USTRUCK	SHEA ASSISTANT	04/12/2011
JANET USTRUCK	SHEA ASSISTANT	03/22/2011
JANET USTRUCK	SHEA ASSISTANT	03/01/2011
GILBERT GARCIA	SHEA ASSISTANT	02/16/2011
GILBERT GARCIA	SHEA ASSISTANT	12/21/2010
GILBERT GARCIA	SHEA ASSISTANT	11/16/2010
GILBERT GARCIA	SHEA ASSISTANT	10/29/2010
GILBERT GARCIA	SHEA ASSISTANT	10/19/2010
GILBERT GARCIA	SHEA ASSISTANT	10/05/2010

Resource Conservation & Recovery Act - Corrective Action Facilities (RCRAC)

GILBERT GARCIA	UNKNOWN	09/21/2010
GILBERT GARCIA	SHEA ASSISTANT	05/04/2010
GILBERT GARCIA	SHEA ASSISTANT	04/16/2010
GILBERT GARCIA	AUTHORIZED COMPANY AGENT	03/01/2010
GILBERT GARCIA	SHEA ASSISTANT	02/09/2010
GILBERT GARCIA	SHEA ASSISTANT	01/11/2010
GILBERT GARCIA	SHEA ASSISTANT	12/15/2009
GILBERT GARCIA	SHEA ASSISTANT	12/01/2009
GILBERT GARCIA	SHEA ASSISTANT	11/03/2009
GILBERT GARCIA	SHEA ASSISTANT	09/15/2009
GILBERT GARCIA	SHEA ASSISTANT	09/01/2009
GILBERT GARCIA	SHEA ASSISTANT	06/16/2009
GILBERT GARCIA	SHEA ASSISTANT	02/10/2009
GILBERT GARCIA	AUTHORIZEDAGENT	03/01/2008
GILBERT GARCIA	SHEA ASSISTANT	10/30/2007
GILBERT GARCIA	SHEA ASSISTANT	07/31/2007
GILBERT GARCIA	UNKNOWN	10/31/2006
GILBERT GARCIA	UNKNOWN	09/20/2006
GILBERT GARCIA	UNKNOWN	08/28/2006
GILBERT GARCIA	UNKNOWN	07/05/2006
GILBERT GARCIA	AUTHORIZEDAGENT	03/01/2006
GILBERT GARCIA	UNKNOWN	02/08/2006
GILBERT GARCIA	UNKNOWN	11/29/2005
GILBERT GARCIA	UNKNOWN	10/13/2005
GILBERT GARCIA	UNKNOWN	09/16/2005
GILBERT GARCIA	AUTHORIZEDAGENT	03/01/2004
GILBERT GARCIA	AUTHORIZEDAGENT	03/01/2002
GILBERT GARCIA	AUTHORIZED COMP	01/25/2000
DAVID L. BURT	AUTHORIZED AGNT	01/25/1998
SUSAN L ERICKSON	ENVRN.COORD.	03/28/1994
PROSPER W NIESCHWIETZ	AREA MANAGER,	01/24/1992

INDUSTRY CLASSIFICATION (NAICS)

32511 - PETROCHEMICAL MANUFACTURING

32512 - INDUSTRIAL GAS MANUFACTURING

325181 - ALKALIES AND CHLORINE MANUFACTURING

325199 - ALL OTHER BASIC ORGANIC CHEMICAL MANUFACTURING

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **LARGE QUANTITY GENERATOR** LAST UPDATED DATE: **03/08/2017**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **YES**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **YES**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **YES**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

Resource Conservation & Recovery Act - Corrective Action Facilities (RCRAC)

RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

06/18/2014	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
04/21/2014	OAM OPERATION AND MAINTENANCE INSPECTION
10/24/2011	NRR NON-FINANCIAL RECORD REVIEW
04/13/2011	OAM OPERATION AND MAINTENANCE INSPECTION
10/04/2010	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
02/16/2010	NRR NON-FINANCIAL RECORD REVIEW
02/08/2010	CDI CASE DEVELOPMENT INSPECTION
02/08/2010	NRR NON-FINANCIAL RECORD REVIEW
10/22/2009	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
12/02/2008	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
10/25/2007	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
10/25/2007	FCI FOCUSED COMPLIANCE INSPECTION
10/25/2006	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
09/12/2005	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
04/29/2004	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
01/15/2003	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
04/17/2002	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
06/19/2001	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
04/14/1999	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
02/17/1998	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
05/22/1997	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
09/19/1996	NRR NON-FINANCIAL RECORD REVIEW
02/07/1996	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
10/26/1994	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
08/12/1994	FCI FOCUSED COMPLIANCE INSPECTION
02/23/1994	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
07/22/1993	FCI FOCUSED COMPLIANCE INSPECTION
10/13/1992	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
10/12/1992	NRR NON-FINANCIAL RECORD REVIEW
08/25/1992	FCI FOCUSED COMPLIANCE INSPECTION
06/05/1992	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
03/10/1992	NRR NON-FINANCIAL RECORD REVIEW
08/22/1991	FCI FOCUSED COMPLIANCE INSPECTION
04/17/1991	NRR NON-FINANCIAL RECORD REVIEW
12/19/1990	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
11/17/1988	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
03/26/1986	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

Resource Conservation & Recovery Act - Corrective Action Facilities (RCRAC)

VIOLATIONS

06/18/2014	262.C GENERATORS - PRE-TRANSPORT
06/18/2014	262.C GENERATORS - PRE-TRANSPORT
06/18/2014	265.I TSD IS-CONTAINER USE AND MANAGEMENT
06/18/2014	265.I TSD IS-CONTAINER USE AND MANAGEMENT
06/18/2014	273.B UNIVERSAL WASTE - SMALL QUANTITY HANDLERS
06/18/2014	273.B UNIVERSAL WASTE - SMALL QUANTITY HANDLERS
06/18/2014	279.C USED OIL - GENERATORS
06/18/2014	279.C USED OIL - GENERATORS
06/18/2014	XXS STATE STATUTE OR REGULATION
06/18/2014	XXS STATE STATUTE OR REGULATION
10/24/2011	262.C GENERATORS - PRE-TRANSPORT
11/29/2010	262.B GENERATORS - MANIFEST
11/29/2010	262.B GENERATORS - MANIFEST
11/29/2010	XXS STATE STATUTE OR REGULATION
11/29/2010	XXS STATE STATUTE OR REGULATION
10/06/2010	262.A GENERATORS - GENERAL
10/06/2010	262.A GENERATORS - GENERAL
10/06/2010	262.C GENERATORS - PRE-TRANSPORT
10/06/2010	262.C GENERATORS - PRE-TRANSPORT
10/06/2010	265.I TSD IS-CONTAINER USE AND MANAGEMENT
10/06/2010	265.I TSD IS-CONTAINER USE AND MANAGEMENT
10/06/2010	265.J TSD IS-TANK SYSTEM STANDARDS
10/06/2010	265.J TSD IS-TANK SYSTEM STANDARDS
10/06/2010	279.C USED OIL - GENERATORS
10/06/2010	279.C USED OIL - GENERATORS
10/06/2010	XXS STATE STATUTE OR REGULATION
10/06/2010	XXS STATE STATUTE OR REGULATION
10/04/2010	262.C GENERATORS - PRE-TRANSPORT
10/04/2010	262.C GENERATORS - PRE-TRANSPORT
10/04/2010	265.I TSD IS-CONTAINER USE AND MANAGEMENT
10/04/2010	265.I TSD IS-CONTAINER USE AND MANAGEMENT
02/08/2010	262.B GENERATORS - MANIFEST
02/08/2010	270.A PERMITS - GENERAL INFORMATION
02/08/2010	270.A PERMITS - GENERAL INFORMATION
10/22/2009	262.A GENERATORS - GENERAL
10/22/2009	262.A GENERATORS - GENERAL
10/22/2009	262.D GENERATORS - RECORDS/REPORTING
10/22/2009	262.D GENERATORS - RECORDS/REPORTING
10/22/2009	268.A LDR - GENERAL
10/22/2009	268.A LDR - GENERAL
10/22/2009	273.B UNIVERSAL WASTE - SMALL QUANTITY HANDLERS
10/22/2009	273.B UNIVERSAL WASTE - SMALL QUANTITY HANDLERS
10/22/2009	XXS STATE STATUTE OR REGULATION
10/22/2009	XXS STATE STATUTE OR REGULATION
10/25/2007	262.C GENERATORS - PRE-TRANSPORT

Resource Conservation & Recovery Act - Corrective Action Facilities (RCRAC)

10/25/2007	262.C GENERATORS - PRE-TRANSPORT
10/25/2007	265.I TSD IS-CONTAINER USE AND MANAGEMENT
10/25/2007	265.I TSD IS-CONTAINER USE AND MANAGEMENT
06/19/2001	262.A GENERATORS - GENERAL
02/17/1998	262.A GENERATORS - GENERAL
02/17/1998	XXS STATE STATUTE OR REGULATION
02/07/1996	XXS STATE STATUTE OR REGULATION
02/23/1994	262.A GENERATORS - GENERAL
06/05/1992	262.A GENERATORS - GENERAL
03/10/1992	265.R TSD IS-UNDERGROUND INJECTION
08/22/1991	265.R TSD IS-UNDERGROUND INJECTION
12/19/1990	264.A TSD - GENERAL
12/19/1990	268.A LDR - GENERAL
12/19/1990	XXS STATE STATUTE OR REGULATION
11/17/1988	264.A TSD - GENERAL
03/26/1986	264.A TSD - GENERAL
03/26/1986	XXS STATE STATUTE OR REGULATION

ENFORCEMENTS

08/18/2014	120 WRITTEN INFORMAL
11/17/2011	120 WRITTEN INFORMAL
01/11/2011	126 WARNING LETTER
01/11/2011	210 INITIAL 3008(A) COMPLIANCE
12/08/2010	141 NOT REPORTED
12/08/2010	141 REFERRAL TO ESC ENFORCEMENT SCREEN COMM.
12/03/2010	140 LETTER OF INTENT TO INITIATE ENFORCEMENT ACTION
12/29/2009	120 WRITTEN INFORMAL
11/09/2007	110 VERBAL INFORMAL
07/03/2001	110 VERBAL INFORMAL
06/21/2001	110 VERBAL INFORMAL
02/17/1998	110 VERBAL INFORMAL
02/07/1996	110 VERBAL INFORMAL
10/28/1994	124 NOTICE OF NONCOMPLIANCE LETTER
02/24/1994	123 NOT REPORTED
02/23/1994	110 VERBAL INFORMAL
09/09/1993	141 NOT REPORTED
11/16/1992	110 VERBAL INFORMAL
10/14/1992	146 NOT REPORTED
07/30/1992	120 WRITTEN INFORMAL
07/16/1992	110 VERBAL INFORMAL
06/05/1992	210 INITIAL 3008(A) COMPLIANCE
05/22/1992	110 VERBAL INFORMAL
03/19/1992	110 VERBAL INFORMAL
11/15/1991	120 WRITTEN INFORMAL
09/26/1991	110 VERBAL INFORMAL
01/16/1991	120 WRITTEN INFORMAL

Resource Conservation & Recovery Act - Corrective Action Facilities (RCRAC)

12/14/1988 120 WRITTEN INFORMAL
04/14/1986 120 WRITTEN INFORMAL

HAZARDOUS WASTE

- D001 IGNITABLE WASTE
- D002 CORROSIVE WASTE
- D003 REACTIVE WASTE
- D004 ARSENIC
- D007 CHROMIUM
- D008 LEAD
- D009 MERCURY
- D011 SILVER
- D018 BENZENE
- D019 CARBON TETRACHLORIDE
- D022 CHLOROFORM
- D032 HEXACHLOROBENZENE
- D034 HEXACHLOROETHANE
- D035 METHYL ETHYL KETONE
- D039 TETRACHLOROETHYLENE
- D040 TRICHLOROETHYLENE
- D043 VINYL CHLORIDE
- F001 THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING:
TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON
TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN
DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE
OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL
BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
- F002 THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE
CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-
TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2,
TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN
PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE
SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT
SOLVENTS AND SPENT SOLVENT MIXTURES.
- F003 THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL
BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL;
ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT
NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE
OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY
VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS
FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
- F005 THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON
DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT
SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF
ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR
F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
- F024 PROCESS WASTES INCLUDING, BUT NOT LIMITED TO, DISTILLATION RESIDUES, HEAVY ENDS, TARS, AND
REACTOR CLEAN-OUT WASTES, FROM THE PRODUCTION OF CERTAIN CHLORINATED ALIPHATIC
HYDROCARBONS BY FREE RADICAL CATALYZED PROCESSES. THESE CHLORINATED ALIPHATIC
HYDROCARBONS ARE THOSE HAVING CARBON CHAIN LENGTHS RANGING FROM ONE TO AND INCLUDING FIVE,
WITH VARYING AMOUNTS AND POSITIONS OF CHLORINE SUBSTITUTION. (THIS LISTING DOES NOT INCLUDE
WASTEWATERS, WASTEWATER TREATMENT SLUDGE, SPENT CATALYSTS, AND WASTES LISTED IN SECTIONS
261.31. OR 261.32)

Resource Conservation & Recovery Act - Corrective Action Facilities (RCRAC)

K016 HEAVY ENDS OR DISTILLATION RESIDUES FROM THE PRODUCTION OF CARBON TETRACHLORIDE.
 P012 ARSENIC OXIDE AS₂O₃
 P012 ARSENIC TRIOXIDE
 U013
 U019 BENZENE (I,T)
 U044 CHLOROFORM
 U044 METHANE, TRICHLORO-
 U056 BENZENE, HEXAHYDRO- (I)
 U056 CYCLOHEXANE (I)
 U078 1,1-DICHLOROETHYLENE
 U078 ETHENE, 1,1-DICHLORO-
 U121 METHANE, TRICHLOROFLUORO-
 U121 TRICHLOROMONOFUOROMETHANE
 U134 HYDROFLUORIC ACID (C,T)
 U134 HYDROGEN FLUORIDE (C,T)
 U151 MERCURY
 U210 ETHENE, TETRACHLORO-
 U211 CARBON TETRACHLORIDE
 U211 METHANE, TETRACHLORO-
 U229

UNIVERSAL WASTE

WASTE TYPE:	ACCUMULATED WASTE ON-SITE:	GENERATED WASTE ON-SITE:	SOURCE TYPE:
BATTERIES	NO	NO	ANNUAL/BIENNIAL REPORT
BATTERIES	UNKNOWN	UNKNOWN	ANNUAL/BIENNIAL REPORT
LAMPS	NO	NO	ANNUAL/BIENNIAL REPORT
LAMPS	UNKNOWN	UNKNOWN	ANNUAL/BIENNIAL REPORT
PESTICIDES	NO	NO	ANNUAL/BIENNIAL REPORT
PESTICIDES	UNKNOWN	UNKNOWN	ANNUAL/BIENNIAL REPORT
MERCURY CONTAINING EQUIPMENT	NO	NO	ANNUAL/BIENNIAL REPORT
MERCURY CONTAINING EQUIPMENT	UNKNOWN	UNKNOWN	ANNUAL/BIENNIAL REPORT

CORRECTIVE ACTION AREA (RELEASE)

AREA NAME:	AIR:	GROUNDWATER:	SOIL:	SURFACE WASTE:
ENTIRE FACILITY	----	----	Y	----
AREAS ADDRESSED THROUGH 8/31/2002	----	----	----	----
SWMU 1	----	----	----	----
SWMU 3	----	----	----	----
SWMU 4	----	----	----	----
SWMU 5	----	----	----	----
SWMU 9	----	----	----	----
SWMU 15	----	----	----	----
EQUALIZATION BASIN	----	----	----	----

Resource Conservation & Recovery Act - Corrective Action Facilities (RCRAC)

FORMER MISCELLANEOUS LANDFILL AREA	----	----	----	----
FORMER BRINE SLUDGE POND	----	----	----	----
FORMER CHLOROCARBONS MANUFACTURING AREA	----	Y	----	----
INTERMEDIATES MANUFACTURING AREA (IMA)	----	Y	----	----
BULK STORAGE & RAIL LOADING AREA(BS/RLA)	----	Y	----	----

CORRECTIVE ACTION EVENT

CA EVENT:	DATE:	EVENT DESCRIPTION:
CA400	11/10/2010	REMEDY DECISION
CA550RC	11/10/2010	REMEDY CONSTRUCTION-REMEDY CONSTRUCTED
CA725YE	03/09/2005	HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
CA750YE	03/09/2005	RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
CA225YE	12/19/1994	STABILIZATION MEASURES EVALUATION-FACILITY IS AMENABLE TO STABILIZATION
CA375	12/19/1994	INTERIM DECISION FOR NO FURTHER ACTION
CA650	12/19/1994	STABILIZATION CONSTRUCTION COMPLETED
CA370	11/10/1994	PETITION FOR NO FUR. ACTION RECEIPT DATE
CA624OR	11/10/1994	STABILIZATION MEASURES REPORT RECEIVED
CA624RV	11/10/1994	STABILIZATION MEASURES REPORT RECEIVED
CA100DC	10/28/1994	RFI IMPOSITION-FOCUSED DATA COLLECTION REQ STAB EVAL
CA225IN	06/18/1993	STABILIZATION MEASURES EVALUATION-FURTHER INVESTIGATION NECESSARY
CA075HI	06/15/1993	CA PRIORITIZATION-HIGH CA PRIORITY
CA050	06/11/1993	RFA COMPLETED
CA770NG	01/01/1993	ENGINEERING CONTROLS ESTABLISHED-NON-GROUNDWATER CONTROL
CA604OR	01/07/1991	STAB MEASURES WORKPLAN RECD
CA600OT	12/10/1990	STABILIZATION/INTERIM MEASURES DECISION-OTHER
CA770NG	01/01/1990	ENGINEERING CONTROLS ESTABLISHED-NON-GROUNDWATER CONTROL
CA770NG	01/01/1989	ENGINEERING CONTROLS ESTABLISHED-NON-GROUNDWATER CONTROL
CA770NG	01/01/1987	ENGINEERING CONTROLS ESTABLISHED-NON-GROUNDWATER CONTROL
CA772ID	07/26/1983	INSTITUTIONAL CONTROLS ESTABLISHED-INFORMATIONAL DEVICE
CA772ID	05/06/1982	INSTITUTIONAL CONTROLS ESTABLISHED-INFORMATIONAL DEVICE

[Back to Report Summary](#)

Resource Conservation & Recovery Act - Subject to Corrective Action Facilities (RCRASUBC)

MAP ID# 2

Distance from Property: 0.606 mi. (3,200 ft.) S
Elevation: 17 ft. (Lower than TP)

FACILITY INFORMATION

EPA ID#: TXD982286932

NAME: OCCIDENTAL CHEMICAL OXYCHEM INGLESIDE PLANT

ADDRESS: 4133 HWY 361
GREGORY, TX 78359

OWNER TYPE: PRIVATE

OWNER NAME: OCCIDENTAL CHEMICAL
CORPORATION

OPERATOR TYPE: PRIVATE

OPERATOR NAME: OCCIDENTAL CHEMICAL
CORPORATION

CONTACT NAME: ARON BAGGETT

CONTACT ADDRESS: PO BOX CC
INGLESIDE TX 78362-0710

CONTACT PHONE: 361-776-6395

NON-NOTIFIER: NOT A NON-NOTIFIER

DATE RECEIVED BY AGENCY: 03/16/2017

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	09/27/2017
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	03/16/2017
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	07/06/2016
ARON BAGGETT	AUTHORIZED COMPANY AGENT	03/01/2016
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	02/11/2016
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	08/27/2015
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	06/25/2015
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	06/08/2015
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	03/31/2015
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	02/10/2015
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	12/16/2014
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	09/08/2014
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	08/20/2014
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	07/01/2014
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	04/07/2014
ARON BAGGETT	AUTHORIZED COMPANY AGENT	03/01/2014
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	02/27/2014
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	12/16/2013
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	10/02/2013
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	07/16/2013
ARON BAGGETT	ENVIRONMENTAL SUPERINTENDE	01/22/2013
ARON BAGGETT	ENV MGR	08/07/2012
ARON BAGGETT	ENV MGR	03/05/2012
ARON BAGGETT	AUTHORIZED COMPANY AGENT	03/01/2012
MICHAEL MALDONADO	ENVIRONMENTAL SUPERINTENDE	06/14/2011
MICHAEL MALDONADO	ENVIRONMENTAL SUPERINTENDE	03/29/2011
MICHAEL MALDONADO	ENVIRONMENTAL SUPERINTENDE	03/01/2011
MICHAEL MALDONADO	ENVIRONMENTAL SUPERINTENDE	01/18/2011
MICHAEL MALDONADO	ENVIRONMENTAL SUPERINTENDE	01/04/2011

Resource Conservation & Recovery Act - Subject to Corrective Action Facilities (RCRASUBC)

MICHAEL MALDONADO	ENVIRONMENTAL SUPERINTENDE	10/29/2010
MICHAEL MALDONADO	ENVIRONMENTAL SUPERINTENDE	10/19/2010
MICHAEL MALDONADO	AUTHORIZED COMPANY AGENT	03/01/2010
MICHAEL MALDONADO	ENVIRONMENTAL SU	07/28/2009
MICHAEL MALDONADO	ENVIRONMENTAL SU	05/26/2009
MICHAEL MALDONADO	ENVIRONMENTAL SU	04/14/2009
MICHAEL MALDONADO	ENVIRONMENTAL SU	02/17/2009
MICHAEL MALDONADO	ENVIRONMENTAL SU	06/17/2008
MICHAEL MALDONADO	AUTHORIZEDAGENT	03/01/2008
MICHAEL MALDONADO	ENVIRONMENTAL SU	02/26/2008
MICHAEL MALDONADO	ENVIRONMENTAL SU	02/12/2008
MICHAEL MALDONADO	ENVIRONMENTAL SU	01/15/2008
MICHAEL MALDONADO	ENVIRONMENTAL SU	11/13/2007
MICHAEL MALDONADO	ENVIRONMENTAL SU	10/25/2007
MICHAEL MALDONADO	ENVIRONMENTAL SU	08/21/2007
MICHAEL MALDONADO	ENVIRONMENTAL SU	04/17/2007
MICHAEL MALDONADO	ENVIRONMENTAL SU	02/21/2007
MICHAEL MALDONADO	ENVIRONMENTAL SU	01/23/2007
MICHAEL MALDONADO	ENVIRONMENTAL SU	01/03/2007
MICHAEL MALDONADO	ENVIRONMENTAL SU	11/14/2006
MICHAEL MALDONADO	UNKNOWN	10/10/2006
MICHAEL MALDONADO	UNKNOWN	08/29/2006
MICHAEL MALDONADO	UNKNOWN	08/22/2006
MICHAEL MALDONADO	UNKNOWN	04/06/2006
MICHAEL MALDONADO	AUTHORIZEDAGENT	03/01/2006
MICHAEL MALDONADO	UNKNOWN	02/17/2006
MICHAEL MALDONADO	UNKNOWN	02/02/2006
MICHAEL MALDONADO	UNKNOWN	12/14/2005
MICHAEL MALDONADO	UNKNOWN	11/29/2005
MICHAEL MALDONADO	UNKNOWN	11/09/2005
KAREN SINARD	UNKNOWN	10/26/2005
KAREN SINARD	UNKNOWN	10/13/2005
KAREN SINARD	UNKNOWN	09/12/2005
KAREN SINARD	UNKNOWN	08/04/2005
KAREN SINARD	UNKNOWN	06/07/2005
KAREN SINARD	UNKNOWN	04/20/2005
KAREN SINARD	UNKNOWN	03/09/2005
KAREN SINARD	AUTHORIZEDAGENT	03/01/2004
MARK EVANS	AUTHORIZEDAGENT	03/01/2002
DAVID HARVEY	AUTHORIZED COMP	01/25/2000
MARK EVANS	AUTHORIZED AGNT	01/25/1998
VICTOR F PISANI	PLANT MANAGER	01/24/1994

INDUSTRY CLASSIFICATION (NAICS)

32511 - PETROCHEMICAL MANUFACTURING

325181 - ALKALIES AND CHLORINE MANUFACTURING

Resource Conservation & Recovery Act - Subject to Corrective Action Facilities (RCRASUBC)

325199 - ALL OTHER BASIC ORGANIC CHEMICAL MANUFACTURING

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **LARGE QUANTITY GENERATOR** LAST UPDATED DATE: **10/05/2017**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **YES**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **YES**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**
IMPORTER: **NO** UNDERGROUND INJECTION: **NO**
MIXED WASTE GENERATOR: **NO** UNIVERSAL WASTE DESTINATION FACILITY: **NO**
RECYCLER: **NO** TRANSFER FACILITY: **NO**
TRANSPORTER: **NO** USED OIL FUEL BURNER: **NO**
ONSITE BURNER EXEMPTION: **NO** USED OIL PROCESSOR: **NO**
FURNACE EXEMPTION: **NO** USED OIL FUEL MARKETER TO BURNER: **NO**
USED OIL REFINER: **NO** SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSFER FACILITY: **NO** USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

08/31/2016	NRR NON-FINANCIAL RECORD REVIEW
12/09/2015	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
06/24/2013	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
05/31/2012	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
03/15/2011	NRR NON-FINANCIAL RECORD REVIEW
02/07/2011	NRR NON-FINANCIAL RECORD REVIEW
10/12/2010	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
10/02/2007	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
04/16/2007	FRR FINANCIAL RECORD REVIEW
11/14/2006	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
07/01/2004	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
07/23/2003	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
10/16/2002	NRR NON-FINANCIAL RECORD REVIEW
10/10/2002	NRR NON-FINANCIAL RECORD REVIEW
06/13/2002	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
11/30/2001	NRR NON-FINANCIAL RECORD REVIEW
03/12/2001	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
10/08/1999	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
04/16/1999	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
06/23/1998	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
05/23/1997	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
02/12/1997	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
10/04/1996	NRR NON-FINANCIAL RECORD REVIEW
03/13/1996	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
02/16/1994	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
02/10/1993	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
10/20/1992	NRR NON-FINANCIAL RECORD REVIEW

Resource Conservation & Recovery Act - Subject to Corrective Action Facilities (RCRASUBC)

07/10/1992	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
09/04/1991	NRR NON-FINANCIAL RECORD REVIEW
07/26/1991	CSE COMPLIANCE SCHEDULE EVALUATION
04/02/1991	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
12/28/1989	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

VIOLATIONS

12/16/2015	262.D GENERATORS - RECORDS/REPORTING
12/16/2015	264.I TSD - CONTAINER USE AND MANAGEMENT
12/16/2015	265.I TSD IS-CONTAINER USE AND MANAGEMENT
12/16/2015	268.A LDR - GENERAL
12/16/2015	XXS STATE STATUTE OR REGULATION
12/15/2015	262.C GENERATORS - PRE-TRANSPORT
12/15/2015	264.I TSD - CONTAINER USE AND MANAGEMENT
12/15/2015	265.I TSD IS-CONTAINER USE AND MANAGEMENT
12/15/2015	279.C USED OIL - GENERATORS
12/15/2015	XXS STATE STATUTE OR REGULATION
12/14/2015	264.B TSD - GENERAL FACILITY STANDARDS
12/14/2015	XXS STATE STATUTE OR REGULATION
12/10/2015	XXS STATE STATUTE OR REGULATION
07/10/2013	262.A GENERATORS - GENERAL
07/10/2013	262.A GENERATORS - GENERAL
06/25/2013	264.B TSD - GENERAL FACILITY STANDARDS
06/25/2013	264.B TSD - GENERAL FACILITY STANDARDS
06/25/2013	XXS STATE STATUTE OR REGULATION
06/25/2013	XXS STATE STATUTE OR REGULATION
06/06/2012	262.C GENERATORS - PRE-TRANSPORT
06/06/2012	262.C GENERATORS - PRE-TRANSPORT
06/06/2012	264.B TSD - GENERAL FACILITY STANDARDS
06/06/2012	264.B TSD - GENERAL FACILITY STANDARDS
06/06/2012	264.I TSD - CONTAINER USE AND MANAGEMENT
06/06/2012	265.J TSD IS-TANK SYSTEM STANDARDS
06/06/2012	265.J TSD IS-TANK SYSTEM STANDARDS
06/06/2012	XXS STATE STATUTE OR REGULATION
06/06/2012	XXS STATE STATUTE OR REGULATION
06/01/2012	262.C GENERATORS - PRE-TRANSPORT
06/01/2012	262.C GENERATORS - PRE-TRANSPORT
06/01/2012	264.J TSD - TANK SYSTEM STANDARDS
06/01/2012	264.J TSD - TANK SYSTEM STANDARDS
06/01/2012	268.E LDR - STORAGE PROHIBITIONS
06/01/2012	268.E LDR - STORAGE PROHIBITIONS
06/01/2012	270.A PERMITS - GENERAL INFORMATION
06/01/2012	270.A PERMITS - GENERAL INFORMATION
06/01/2012	XXS STATE STATUTE OR REGULATION
06/01/2012	XXS STATE STATUTE OR REGULATION
10/19/2010	264.B TSD - GENERAL FACILITY STANDARDS

Resource Conservation & Recovery Act - Subject to Corrective Action Facilities (RCRASUBC)

10/19/2010	264.B TSD - GENERAL FACILITY STANDARDS
10/19/2010	XXS STATE STATUTE OR REGULATION
10/19/2010	XXS STATE STATUTE OR REGULATION
10/13/2010	270.A PERMITS - GENERAL INFORMATION
10/13/2010	270.A PERMITS - GENERAL INFORMATION
10/12/2010	262.B GENERATORS - MANIFEST
10/12/2010	262.B GENERATORS - MANIFEST
10/12/2010	262.C GENERATORS - PRE-TRANSPORT
10/12/2010	262.C GENERATORS - PRE-TRANSPORT
10/12/2010	268.A LDR - GENERAL
10/12/2010	268.E LDR - STORAGE PROHIBITIONS
10/12/2010	268.E LDR - STORAGE PROHIBITIONS
10/12/2010	279.C USED OIL - GENERATORS
10/12/2010	279.C USED OIL - GENERATORS
10/12/2010	XXS STATE STATUTE OR REGULATION
10/12/2010	XXS STATE STATUTE OR REGULATION
07/23/2008	262.B GENERATORS - MANIFEST
10/03/2007	264.J TSD - TANK SYSTEM STANDARDS
10/03/2007	264.J TSD - TANK SYSTEM STANDARDS
10/03/2007	XXS STATE STATUTE OR REGULATION
10/03/2007	XXS STATE STATUTE OR REGULATION
07/23/2003	264.A TSD - GENERAL
07/23/2003	XXS STATE STATUTE OR REGULATION
03/12/2001	270.C PERMITS - CONDITIONS
02/12/1997	XXS STATE STATUTE OR REGULATION
03/13/1996	262.A GENERATORS - GENERAL
02/16/1994	264.A TSD - GENERAL
02/16/1994	268.A LDR - GENERAL
07/10/1992	262.A GENERATORS - GENERAL
07/10/1992	264.A TSD - GENERAL
07/10/1992	270.C PERMITS - CONDITIONS
07/26/1991	264.A TSD - GENERAL
04/02/1991	264.A TSD - GENERAL
04/02/1991	XXS STATE STATUTE OR REGULATION
12/28/1989	XXS STATE STATUTE OR REGULATION

ENFORCEMENTS

02/26/2016	120 WRITTEN INFORMAL
07/10/2013	110 VERBAL INFORMAL
06/25/2013	110 VERBAL INFORMAL
08/10/2012	120 WRITTEN INFORMAL
03/04/2011	120 WRITTEN INFORMAL
12/17/2010	120 WRITTEN INFORMAL
10/03/2007	110 VERBAL INFORMAL
07/23/2003	110 VERBAL INFORMAL
05/04/2001	120 WRITTEN INFORMAL

Resource Conservation & Recovery Act - Subject to Corrective Action Facilities (RCRASUBC)

02/13/1997	110 VERBAL INFORMAL
04/25/1996	110 VERBAL INFORMAL
04/25/1996	141 NOT REPORTED
04/25/1996	851 NOT REPORTED
04/06/1995	124 NOTICE OF NONCOMPLIANCE LETTER
03/31/1994	141 NOT REPORTED
02/16/1994	110 VERBAL INFORMAL
06/23/1993	146 NOT REPORTED
03/25/1993	141 NOT REPORTED
03/19/1993	210 INITIAL 3008(A) COMPLIANCE
12/01/1992	120 WRITTEN INFORMAL
11/16/1992	110 VERBAL INFORMAL
09/03/1992	110 VERBAL INFORMAL
07/10/1992	110 VERBAL INFORMAL
09/11/1991	120 WRITTEN INFORMAL
05/02/1991	120 WRITTEN INFORMAL
04/02/1991	110 VERBAL INFORMAL
01/24/1990	120 WRITTEN INFORMAL

HAZARDOUS WASTE

D001	IGNITABLE WASTE
D002	CORROSIVE WASTE
D003	REACTIVE WASTE
D004	ARSENIC
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D011	SILVER
D018	BENZENE
D019	CARBON TETRACHLORIDE
D022	CHLOROFORM
D028	1,2-DICHLOROETHANE
D029	1,1-DICHLOROETHYLENE
D032	HEXACHLOROBENZENE
D034	HEXACHLOROETHANE
D035	METHYL ETHYL KETONE
D037	PENTACHLOROPHENOL
D039	TETRACHLOROETHYLENE
D040	TRICHLOROETHYLENE
D042	2,4,6-TRICHLOROPHENOL
D043	VINYL CHLORIDE

Resource Conservation & Recovery Act - Subject to Corrective Action Facilities (RCRASUBC)

- F001 THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
- F002 THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
- F003 THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
- F005 THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
- F025 CONDENSED LIGHT ENDS, SPENT FILTERS AND FILTER AIDS, AND SPENT DESICCANT WASTES FROM THE PRODUCTION OF CERTAIN CHLORINATED ALIPHATIC HYDROCARBONS, BY FREE RADICAL CATALYZED PROCESSES. THESE CHLORINATED ALIPHATIC HYDROCARBONS ARE THOSE HAVING CARBON CHAIN LENGTHS RANGING FROM ONE, TO AND INCLUDING FIVE, WITH VARYING AMOUNTS AND POSITIONS OF CHLORINE SUBSTITUTION.
- K019 HEAVY ENDS FROM THE DISTILLATION OF ETHYLENE DICHLORIDE IN ETHYLENE DICHLORIDE PRODUCTION.
- K020 HEAVY ENDS FROM THE DISTILLATION OF VINYL CHLORIDE IN VINYL CHLORIDE MONOMER PRODUCTION.
- K039 FILTER CAKE FROM THE FILTRATION OF DIETHYLPHOSPHORODITHIOIC ACID IN THE PRODUCTION OF PHORATE.
- P098 POTASSIUM CYANIDE
- P098 POTASSIUM CYANIDE K(CN)
- U043 ETHENE, CHLORO-
- U043 VINYL CHLORIDE
- U076 ETHANE, 1,1-DICHLORO-
- U076 ETHYLIDENE DICHLORIDE
- U077 ETHANE, 1,2-DICHLORO-
- U077 ETHYLENE DICHLORIDE
- U080 METHANE, DICHLORO-
- U080 METHYLENE CHLORIDE
- U131 ETHANE, HEXACHLORO-
- U131 HEXACHLOROETHANE
- U210 ETHENE, TETRACHLORO-
- U211 CARBON TETRACHLORIDE
- U211 METHANE, TETRACHLORO-
- U227 1,1,2-TRICHLOROETHANE
- U227 ETHANE, 1,1,2-TRICHLORO-
- U228 ETHENE, TRICHLORO-
- U228 TRICHLOROETHYLENE

UNIVERSAL WASTE

Resource Conservation & Recovery Act - Subject to Corrective Action Facilities (RCRASUBC)

WASTE TYPE:	ACCUMULATED WASTE ON-SITE:	GENERATED WASTE ON-SITE:	SOURCE TYPE:
BATTERIES	NO	NO	ANNUAL/BIENNIAL REPORT
BATTERIES	UNKNOWN	UNKNOWN	ANNUAL/BIENNIAL REPORT
LAMPS	NO	NO	ANNUAL/BIENNIAL REPORT
LAMPS	UNKNOWN	UNKNOWN	ANNUAL/BIENNIAL REPORT
PESTICIDES	NO	NO	ANNUAL/BIENNIAL REPORT
PESTICIDES	UNKNOWN	UNKNOWN	ANNUAL/BIENNIAL REPORT
MERCURY CONTAINING EQUIPMENT	NO	NO	ANNUAL/BIENNIAL REPORT
MERCURY CONTAINING EQUIPMENT	UNKNOWN	UNKNOWN	ANNUAL/BIENNIAL REPORT

CORRECTIVE ACTION AREA (RELEASE)

AREA NAME:	AIR:	GROUNDWATER:	SOIL:	SURFACE WASTE:
MAIN PLANT (RFI UNITS)	----	Y	Y	----
NFA UNITS	----	Y	Y	----
ENTIRE FACILITY	----	Y	Y	----
AREAS ADDRESSED AFTER 09/01/2002	----	----	----	----

CORRECTIVE ACTION EVENT

CA EVENT:	DATE:	EVENT DESCRIPTION:
CA800YE	09/30/2007	READY FOR ANTICIPATED USE DETERMINATION - READY FOR ANTICIPATED USE
CA400	10/01/2005	REMEDY DECISION
CA550NR	10/01/2005	REMEDY CONSTRUCTION-NO REMEDY CONSTRUCTED
CA999	10/01/2005	CA PROCESS IS TERMINATED
CA375	01/22/2003	INTERIM DECISION FOR NO FURTHER ACTION
CA200	08/06/2002	INVESTIGATION COMPLETE
CA375	08/06/2002	INTERIM DECISION FOR NO FURTHER ACTION
CA750YE	07/11/2001	RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
CA191	07/10/2001	RFI DRAFT REPORT COMMENTS
CA725YE	05/29/2001	HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
CA190	05/17/2001	INVESTIGATION REPORT RECEIVED
CA191	11/21/2000	RFI DRAFT REPORT COMMENTS
CA190	07/20/2000	INVESTIGATION REPORT RECEIVED
CA375	06/01/2000	INTERIM DECISION FOR NO FURTHER ACTION
CA370	02/29/2000	PETITION FOR NO FUR. ACTION RECEIPT DATE
CA200	11/16/1999	INVESTIGATION COMPLETE
CA375	11/16/1999	INTERIM DECISION FOR NO FURTHER ACTION
CA190	09/30/1999	INVESTIGATION REPORT RECEIVED
CA191	08/02/1999	RFI DRAFT REPORT COMMENTS
CA190	10/30/1998	INVESTIGATION REPORT RECEIVED
CA725IN	07/10/1998	HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Resource Conservation & Recovery Act - Subject to Corrective Action Facilities (RCRASUBC)
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CA750IN	07/10/1998	RELEASE TO GW CONTROLLED DETERMINATION-MORE INFORMATION NEEDED
CA190	06/29/1998	INVESTIGATION REPORT RECEIVED
CA191	05/04/1998	RFI DRAFT REPORT COMMENTS
CA375	05/04/1998	INTERIM DECISION FOR NO FURTHER ACTION
CA190	10/01/1996	INVESTIGATION REPORT RECEIVED
CA370	10/01/1996	PETITION FOR NO FUR. ACTION RECEIPT DATE
CA150	03/01/1996	INVESTIGATION WORKPLAN APPROVED
CA110	06/15/1995	INVESTIGATION WORKPLAN RECEIVED
CA140	04/17/1995	INVESTIGATION WORKPLAN NOTICE OF DEFICIENCY ISSUED
CA225IN	05/26/1993	STABILIZATION MEASURES EVALUATION-FURTHER INVESTIGATION NECESSARY
CA075HI	08/10/1992	CA PRIORITIZATION-HIGH CA PRIORITY
CA075ME	05/14/1992	CA PRIORITIZATION-MEDIUM CA PRIORITY
CA110	12/19/1991	INVESTIGATION WORKPLAN RECEIVED
CA100DC	09/23/1991	RFI IMPOSITION-FOCUSED DATA COLLECTION REQ STAB EVAL
CA050	12/28/1990	RFA COMPLETED
CA070YE	12/28/1990	DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY

[Back to Report Summary](#)

Unlocated Sites Summary

This list contains sites that could not be mapped due to limited or incomplete address information.

Database Name	Site ID#	Site Name	Address	City/State/Zip/County
ERNSTX	1100930	SITE SPECIFIC	HWY 35	ARANSAS PASS

Environmental Records Definitions - FEDERAL

AIRSAFS

Aerometric Information Retrieval System / Air Facility Subsystem

VERSION DATE: 10/20/14

The United States Environmental Protection Agency (EPA) modified the Aerometric Information Retrieval System (AIRS) to a database that exclusively tracks the compliance of stationary sources of air pollution with EPA regulations: the Air Facility Subsystem (AFS). Since this change in 2001, the management of the AIRS/AFS database was assigned to EPA's Office of Enforcement and Compliance Assurance.

BRS

Biennial Reporting System

VERSION DATE: 12/31/11

The United States Environmental Protection Agency (EPA), in cooperation with the States, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The Biennial Report captures detailed data on the generation of hazardous waste from large quantity generators and data on waste management practices from treatment, storage and disposal facilities. Currently, the EPA states that data collected between 1991 and 1997 was originally a part of the defunct Biennial Reporting System and is now incorporated into the RCRAInfo data system.

CDL

Clandestine Drug Laboratory Locations

VERSION DATE: 07/01/16

The U.S. Department of Justice ("the Department") provides this information as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

DOCKETS

EPA Docket Data

VERSION DATE: 12/22/05

The United States Environmental Protection Agency Docket data lists Civil Case Defendants, filing dates as far back as 1971, laws broken including section, violations that occurred, pollutants involved, penalties assessed and superfund awards by facility and location. Please refer to ICIS database as source of current data.

EC

Federal Engineering Institutional Control Sites

VERSION DATE: 08/03/15

This database includes site locations where Engineering and/or Institutional Controls have been identified as part

Environmental Records Definitions - FEDERAL

of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination.

ECHOR06 Enforcement and Compliance History Information

VERSION DATE: 08/26/17

The EPA's Enforcement and Compliance History Online (ECHO) database, provides compliance and enforcement information for facilities nationwide. This database includes facilities regulated as Clean Air Act stationary sources, Clean Water Act direct dischargers, Resource Conservation and Recovery Act hazardous waste handlers, Safe Drinking Water Act public water systems along with other data, such as Toxics Release Inventory releases.

ERNSTX Emergency Response Notification System

VERSION DATE: 10/15/17

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

FRSTX Facility Registry System

VERSION DATE: 09/06/17

The United States Environmental Protection Agency's Office of Environmental Information (OEI) developed the Facility Registry System (FRS) as the centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. The Facility Registry System replaced the Facility Index System or FINDS database.

HMIRSR06 Hazardous Materials Incident Reporting System

VERSION DATE: 08/30/17

The HMIRS database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ICIS Integrated Compliance Information System (formerly DOCKETS)

VERSION DATE: 09/23/17

Environmental Records Definitions - FEDERAL

ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act - Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

ICISNPDES Integrated Compliance Information System National Pollutant Discharge Elimination System
VERSION DATE: 07/09/17

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States.

LUCIS Land Use Control Information System
VERSION DATE: 09/01/06

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

MLTS Material Licensing Tracking System
VERSION DATE: 06/29/17

MLTS is a list of approximately 8,100 sites which have or use radioactive materials subject to the United States Nuclear Regulatory Commission (NRC) licensing requirements.

NPDESR06 National Pollutant Discharge Elimination System
VERSION DATE: 04/01/07

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. The NPDES database was collected from December 2002 until April 2007. Refer to the PCS and/or ICIS-NPDES database as source of current data. This database includes permitted facilities located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

PADS PCB Activity Database System
VERSION DATE: 07/18/17

PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Environmental Records Definitions - FEDERAL

PCSR06

Permit Compliance System

VERSION DATE: 08/01/12

The Permit Compliance System is used in tracking enforcement status and permit compliance of facilities controlled by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act and is maintained by the United States Environmental Protection Agency's Office of Compliance. PCS is designed to support the NPDES program at the state, regional, and national levels. This database includes permitted facilities located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas. PCS has been modernized, and no longer exists. National Pollutant Discharge Elimination System (ICIS-NPDES) data can now be found in Integrated Compliance Information System (ICIS).

RCRASC

RCRA Sites with Controls

VERSION DATE: 11/21/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with institutional controls in place.

SEMSLIENS

SEMS Lien on Property

VERSION DATE: 10/10/17

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs. This is a listing of SEMS sites with a lien on the property.

SFLIENS

CERCLIS Liens

VERSION DATE: 06/08/12

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States Environmental Protection Agency has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties. This database contains those CERCLIS sites where the Lien on Property action is complete.

Environmental Records Definitions - FEDERAL

SSTS Section Seven Tracking System

VERSION DATE: 02/01/17

The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. ("Production" includes formulation, packaging, repackaging, and relabeling.)

TRI Toxics Release Inventory

VERSION DATE: 12/31/16

The Toxics Release Inventory, provided by the United States Environmental Protection Agency, includes data on toxic chemical releases and waste management activities from certain industries as well as federal and tribal facilities. This inventory contains information about the types and amounts of toxic chemicals that are released each year to the air, water, and land as well as information on the quantities of toxic chemicals sent to other facilities for further waste management.

TSCA Toxic Substance Control Act Inventory

VERSION DATE: 12/31/12

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured, imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site.

RCRAGR06 Resource Conservation & Recovery Act - Generator

VERSION DATE: 10/17/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities currently generating hazardous waste. EPA region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

Environmental Records Definitions - FEDERAL

RCRANGR06

Resource Conservation & Recovery Act - Non-Generator

VERSION DATE: 10/17/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA Region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ALTFUELS

Alternative Fueling Stations

VERSION DATE: 05/16/17

Nationwide list of alternative fueling stations made available by the US Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Biodiesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE).

FEMAUST

FEMA Owned Storage Tanks

VERSION DATE: 12/01/16

This is a listing of FEMA owned underground and aboveground storage tank sites. For security reasons, address information is not released to the public according to the U.S. Department of Homeland Security.

HISTPST

Historical Gas Stations

VERSION DATE: NR

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

ICISCLEANERS

Integrated Compliance Information System Drycleaners

VERSION DATE: 09/23/17

This is a listing of drycleaner facilities from the Integrated Compliance Information System (ICIS). The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

MRDS

Mineral Resource Data System

VERSION DATE: 03/15/16

Environmental Records Definitions - FEDERAL

MRDS (Mineral Resource Data System) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS.

MSHA Mine Safety and Health Administration Master Index File

VERSION DATE: 09/01/17

The Mine dataset lists all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970. It includes such information as the current status of each mine (Active, Abandoned, NonProducing, etc.), the current owner and operating company, commodity codes and physical attributes of the mine. Mine ID is the unique key for this data. This information is provided by the United States Department of Labor - Mine Safety and Health Administration (MSHA).

BF Brownfields Management System

VERSION DATE: 11/21/17

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment. This database included tribal brownfield sites.

DNPL Delisted National Priorities List

VERSION DATE: 10/10/17

This database includes sites from the United States Environmental Protection Agency's Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.

NLRRCRAT No Longer Regulated RCRA Non-CORRACTS TSD Facilities

VERSION DATE: 10/17/17

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

ODI Open Dump Inventory

VERSION DATE: 06/01/85

Environmental Records Definitions - FEDERAL

The open dump inventory was published by the United States Environmental Protection Agency. An "open dump" is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a facility for disposal of hazardous waste. This inventory has not been updated since June 1985.

RCRAT Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities

VERSION DATE: 10/17/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities recognized as hazardous waste treatment, storage, and disposal sites (TSD).

SEMS Superfund Enterprise Management System

VERSION DATE: 10/10/17

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

SEMSARCH Superfund Enterprise Management System Archived Site Inventory

VERSION DATE: 10/10/17

The Superfund Enterprise Management System Archive listing (SEMS-ARCHIVE) has replaced the CERCLIS NFRAP reporting system in 2015. This listing reflect sites that have been assessed and no further remediation is planned and is of no further interest under the Superfund program.

SMCRA Surface Mining Control and Reclamation Act Sites

VERSION DATE: 08/25/17

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Environmental Records Definitions - FEDERAL

USUMTRCA Uranium Mill Tailings Radiation Control Act Sites

VERSION DATE: 03/04/17

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

DOD Department of Defense Sites

VERSION DATE: 12/01/14

This information originates from the National Atlas of the United States Federal Lands data, which includes lands owned or administered by the Federal government. Army DOD, Army Corps of Engineers DOD, Air Force DOD, Navy DOD and Marine DOD areas of 640 acres or more are included.

FUDS Formerly Used Defense Sites

VERSION DATE: 06/01/15

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not all properties currently have polygon data available. **DISCLAIMER:** This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

FUSRAP Formerly Utilized Sites Remedial Action Program

VERSION DATE: 03/04/17

The U.S. DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

NLRRCRAC No Longer Regulated RCRA Corrective Action Facilities

VERSION DATE: 10/17/17

Environmental Records Definitions - FEDERAL

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

NMS Former Military Nike Missile Sites

VERSION DATE: 12/01/84

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites.

During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

NPL National Priorities List

VERSION DATE: 10/10/17

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

PNPL Proposed National Priorities List

VERSION DATE: 10/10/17

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

RCRAC Resource Conservation & Recovery Act - Corrective Action Facilities

VERSION DATE: 10/17/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with corrective action activity.

Environmental Records Definitions - FEDERAL

RCRASUBC

Resource Conservation & Recovery Act - Subject to Corrective Action Facilities

VERSION DATE: 10/17/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities subject to corrective actions.

RODS

Record of Decision System

VERSION DATE: 10/10/17

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.

Environmental Records Definitions - STATE (TX)

GWCC Groundwater Contamination Cases

VERSION DATE: 08/26/16

This report contains a listing of groundwater contamination cases which were documented for the 2013 calendar year. Texas Water Code, Section 26.406 requires the annual report to describe the current status of groundwater monitoring activities conducted or required by each agency at regulated facilities or associated with regulated activities. The agencies reporting these contamination cases include the Texas Commission on Environmental Quality, Railroad Commission of Texas, Texas Alliance of Groundwater Districts, and Department of State Health Services.

HISTGWCC Historic Groundwater Contamination Cases

VERSION DATE: 12/31/12

This historic report contains all agency groundwater contamination cases documented from 1994 to 2012. The agencies that reported these contamination cases included the Texas Commission on Environmental Quality, Railroad Commission of Texas, Texas Alliance of Groundwater Districts, and Department of State Health Services.

LIENS TCEQ Liens

VERSION DATE: 06/16/17

Liens filed upon State and/or Federal Superfund Sites by the Texas Commission on Environmental Quality.

MSD Municipal Setting Designations

VERSION DATE: 11/02/17

The Texas Commission on Environmental Quality defines an MSD as an official state designation given to property within a municipality or its extraterritorial jurisdiction that certifies that designated groundwater at the property is not used as potable water, and is prohibited from future use as potable water because that groundwater is contaminated in excess of the applicable potable-water protective concentration level. The prohibition must be in the form of a city ordinance, or a restrictive covenant that is enforceable by the city and filed in the property records. The MSD property can be a single property, multi-property, or a portion of property.

NOV Notice of Violations

VERSION DATE: 02/24/16

This database containing Notice of Violations (NOV) is maintained by the Texas Commission on Environmental Quality. An NOV is a written notification that documents and communicates violations observed during an inspection to the business or individual inspected.

Environmental Records Definitions - STATE (TX)

SIEC01 State Institutional/Engineering Control Sites

VERSION DATE: 12/06/17

The Texas Risk Reduction Program (TRRP) requires the placement of institutional controls (e.g., deed notices or restrictive covenants) on affected property in different circumstances as part of completing a response action. In its simplest form, an institutional control (IC) is a legal document that is recorded in the county deed records. In certain circumstances, local zoning or ordinances can serve as an IC. This listing may also include locations where Engineering Controls are in effect, such as a cap, barrier, or other engineering device to prevent access, exposure, or continued migration of contamination. The sites included on this list are regulated by various programs of the Texas Commission on Environmental Quality (TCEQ).

SPILLS Spills Listing

VERSION DATE: 04/13/17

This Texas Commission on Environmental Quality database includes releases of hazardous or potentially hazardous materials into the environment.

TIERII Tier II Chemical Reporting Program Facilities

VERSION DATE: 12/31/12

The Texas Tier II Chemical Reporting Program in the Department of State Health Services (DSHS) is the state repository for EPCRA-required Emergency Planning Letters (EPLs), which are one-time notifications to the state from facilities that have certain extremely hazardous chemicals in specified amounts. The Program is also the state repository for EPCRA/state-required hazardous chemical inventory reports called Texas Tier Two Reports. This data contains those facility reports for the 2005 through the 2012 calendar years.

DCR Dry Cleaner Registration Database

VERSION DATE: 08/31/17

The database includes dry cleaning drop stations and facilities registered with the Texas Commission on Environmental Quality.

IHW Industrial and Hazardous Waste Sites

VERSION DATE: 11/09/17

Owner and facility information is included in this database of permitted and non-permitted industrial and hazardous waste sites. Industrial waste is waste that results from or is incidental to operations of industry, manufacturing, mining, or agriculture. Hazardous waste is defined as any solid waste listed as hazardous or possesses one or more hazardous characteristics as defined in federal waste regulations. The IHW database is maintained by the Texas Commission on Environmental Quality.

Environmental Records Definitions - STATE (TX)

PIHW Permitted Industrial Hazardous Waste Sites

VERSION DATE: 07/03/17

Owner and facility information is included in this database of all permitted industrial and hazardous waste sites. Industrial waste is waste that results from or is incidental to operations of industry, manufacturing, mining, or agriculture. Hazardous waste is defined as any solid waste listed as hazardous or possesses one or more hazardous characteristics as defined in federal waste regulations. Permitted IHW facilities are regulated under 30 Texas Administrative Code Chapter 335 in addition to federal regulations. The IHW database is maintained by the Texas Commission on Environmental Quality.

PST Petroleum Storage Tanks

VERSION DATE: 10/04/17

The Petroleum Storage Tank database is administered by the Texas Commission on Environmental Quality (TCEQ). Both Underground storage tanks (USTs) and Aboveground storage tanks (ASTs) are included in this report. Petroleum Storage Tank registration has been a requirement with the TCEQ since 1986.

APAR Affected Property Assessment Reports

VERSION DATE: 12/18/17

As regulated by the Texas Commission on Environmental Quality, an Affected Property Assessment Report is required when a person is addressing a release of chemical of concern (COC) under 30 TAC Chapter 350, the Texas Risk Reduction Program (TRRP). The purpose of the APAR is to document all relevant affected property information to identify all release sources and COCs, determine the extent of all COCs, identify all transport/exposure pathways, and to determine if any response actions are necessary. The Texas Administrative Code Title 30 §350.4(a)(1) defines affected property as the entire area (i.e. on-site and off-site; including all environmental media) which contains releases of chemicals of concern at concentrations equal to or greater than the assessment level applicable for residential land use and groundwater classification.

BSA Brownfields Site Assessments

VERSION DATE: 09/20/17

The Brownfields Site Assessments database is maintained by the Texas Commission on Environmental Quality (TCEQ). The TCEQ, in close partnership with the U.S. Environmental Protection Agency (EPA) and other federal, state, and local redevelopment agencies, and stakeholders, is facilitating cleanup, transferability, and revitalization of brownfields through the development of regulatory, tax, and technical assistance tools.

CALF Closed & Abandoned Landfill Inventory

VERSION DATE: 11/01/05

The Texas Commission on Environmental Quality, under a contract with Texas State University, and in cooperation with the 24 regional Council of Governments (COGs) in the State, has located over 4,000 closed

Environmental Records Definitions - STATE (TX)

and abandoned municipal solid waste landfills throughout Texas. This listing contains "unauthorized sites". Unauthorized sites have no permit and are considered abandoned. The information available for each site varies in detail and this historical information is not updated. Please refer to the specific regional COG for the most current information.

DCRPS Dry Cleaner Remediation Program Sites

VERSION DATE: 09/01/17

This list of DCRP sites is provided by the Texas Commission on Environmental Quality (TCEQ). According to the TCEQ, the Dry Cleaner Remediation Program (DCRP) establishes a prioritization list of dry cleaner sites and administers the Dry Cleaning Remediation fund to assist with remediation of contamination caused by dry cleaning solvents.

IOP Innocent Owner / Operator Database

VERSION DATE: 11/20/17

Texas Innocent Owner / Operator (IOP), created by House Bill 2776 of the 75th Legislature, provides a certificate to an innocent owner or operator if their property is contaminated as a result of a release or migration of contaminants from a source or sources not located on the property, and they did not cause or contribute to the source or sources of contamination. The IOP database is maintained by the Texas Commission on Environmental Quality.

LPST Leaking Petroleum Storage Tanks

VERSION DATE: 10/09/17

The Leaking Petroleum Storage Tank listing is derived from the Petroleum Storage Tank (PST) database and is maintained by the Texas Commission on Environmental Quality. This listing includes aboveground and underground storage tank facilities with reported leaks.

MSWLF Municipal Solid Waste Landfill Sites

VERSION DATE: 12/08/17

The municipal solid waste landfill database is provided by the Texas Commission on Environmental Quality. This database includes active landfills and inactive landfills, where solid waste is treated or stored.

RRCVCP Railroad Commission VCP and Brownfield Sites

VERSION DATE: 10/25/17

According to the Railroad Commission of Texas, their Voluntary Cleanup Program (RRC-VCP) provides an incentive to remediate Oil & Gas related pollution by participants as long as they did not cause or contribute to the contamination. Applicants to the program receive a release of liability to the state in exchange for a successful cleanup.

Environmental Records Definitions - STATE (TX)

RWS Radioactive Waste Sites

VERSION DATE: 07/11/06

This Texas Commission on Environmental Quality database contains all sites in the State of Texas that have been designated as Radioactive Waste sites.

STCV Salt Caverns for Petroleum Storage

VERSION DATE: 09/01/06

The salt caverns for petroleum storage database is provided by the Railroad Commission of Texas.

VCP Voluntary Cleanup Program Sites

VERSION DATE: 12/06/17

The Texas Voluntary Cleanup Program (VCP) provides administrative, technical, and legal incentives to encourage the cleanup of contaminated sites in Texas. Since all non-responsible parties, including future lenders and landowners, receive protection from liability to the state of Texas for cleanup of sites under the VCP, most of the constraints for completing real estate transactions at those sites are eliminated. As a result, many unused or underused properties may be restored to economically productive or community beneficial uses. The VCP database is maintained by the Texas Commission on Environmental Quality.

WMRF Recycling Facilities

VERSION DATE: 11/01/12

This listing of recycling facilities is provided by the Texas Commission on Environmental Quality's Recycle Texas Online service. The company information provided in this database is self-reported. Since recyclers post their own information, a facility or company appearing on the list does not imply that it is in compliance with TCEQ regulations or other applicable laws. This database is no longer maintained and includes the last compilation of the program participants before the Recycle Texas Online program was closed.

IHWCA Industrial and Hazardous Waste Corrective Action Sites

VERSION DATE: 10/16/17

This database is provided by the Texas Commission on Environmental Quality (TCEQ). According to the TCEQ, the mission of the industrial and hazardous waste corrective action program is to oversee the cleanup of sites contaminated from industrial and municipal hazardous and industrial nonhazardous wastes. The goals of this program are to: Ensure that sites are assessed and remediated to levels that protect human health and the environment; Verify that waste management units or facilities are taken out of service and closed properly; and to Facilitate revitalization of contaminated properties.

Environmental Records Definitions - STATE (TX)

SF

State Superfund Sites

VERSION DATE: 09/23/16

The state Superfund program mission is to remediate abandoned or inactive sites within the state that pose an unacceptable risk to public health and safety or the environment, but which do not qualify for action under the federal Superfund program (NPL - National Priority Listing). As required by the Texas Solid Waste Disposal Act, Texas Health and Safety Code, Chapter 361, the Texas Commission on Environmental Quality identifies and evaluates these facilities for inclusion on the state Superfund registry. This registry includes any recent developments and the anticipated action for these sites.

Environmental Records Definitions - TRIBAL

USTR06 Underground Storage Tanks On Tribal Lands

VERSION DATE: 04/24/17

This database, provided by the United States Environmental Protection Agency (EPA), contains underground storage tanks on Tribal lands located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

LUSTR06 Leaking Underground Storage Tanks On Tribal Lands

VERSION DATE: 04/24/17

This database, provided by the United States Environmental Protection Agency (EPA), contains leaking underground storage tanks on Tribal lands located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ODINDIAN Open Dump Inventory on Tribal Lands

VERSION DATE: 11/08/06

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

INDIANRES Indian Reservations

VERSION DATE: 01/01/00

The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.

Exhibit C

Historical Aerial Photographs

Historical Aerials Package

Target Property:

***CCREDC Blue Bay Site Phase I ESA
State Hwy 35
Gregory, San Patricio, Texas 78374***

Prepared For:

Hanson Professional Services

Order #: 100526

Job #: 219597

Project #: 18L0013

Date: 1/19/2018

Target Property Summary

CCREDC Blue Bay Site Phase I ESA

State Hwy 35

Gregory, San Patricio, Texas 78374

USGS Quadrangle: GREGORY, ARANSAS PASS

Target Property Geometry: Area

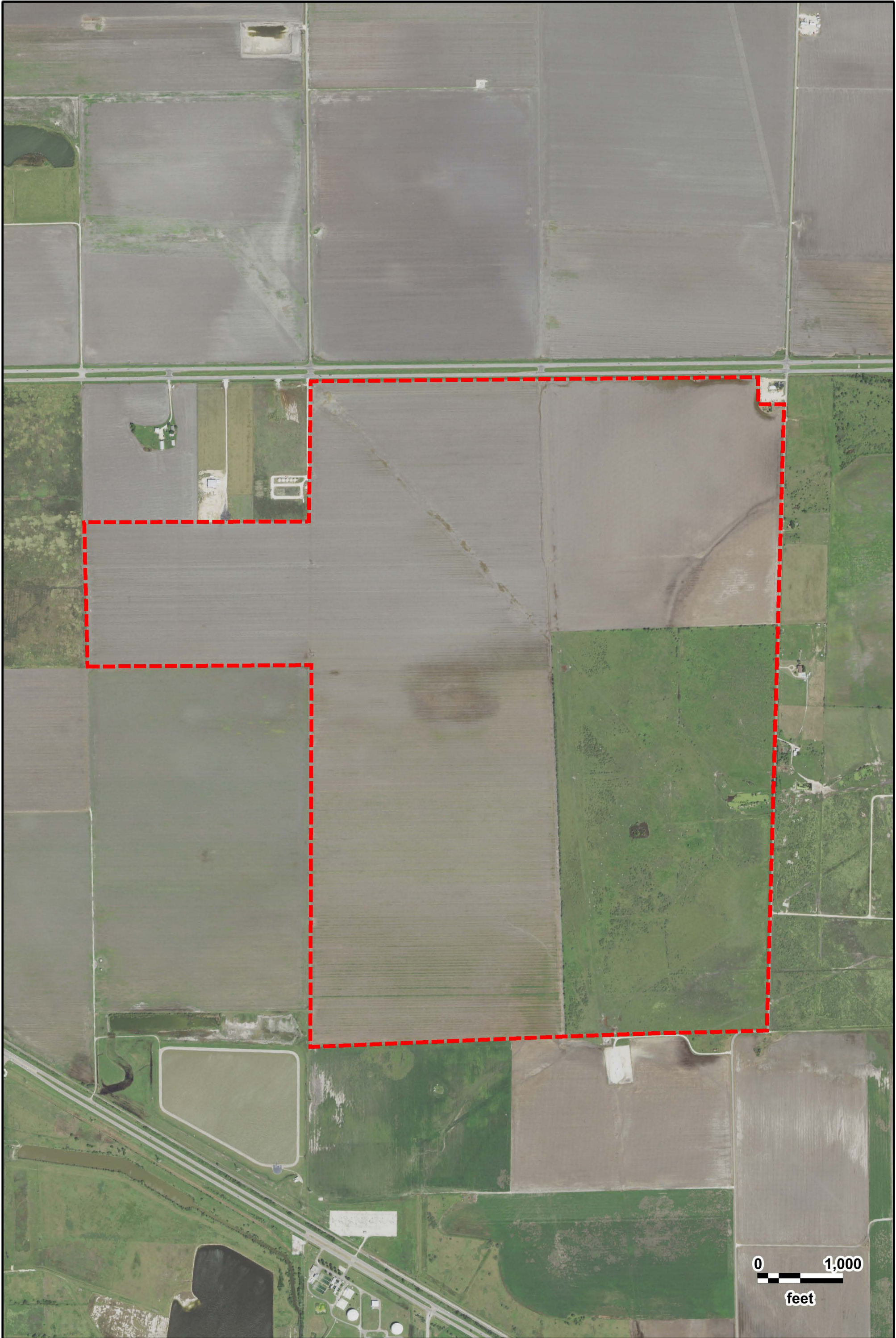
Target Property Longitude(s)/Latitude(s):

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Aerial Research Summary

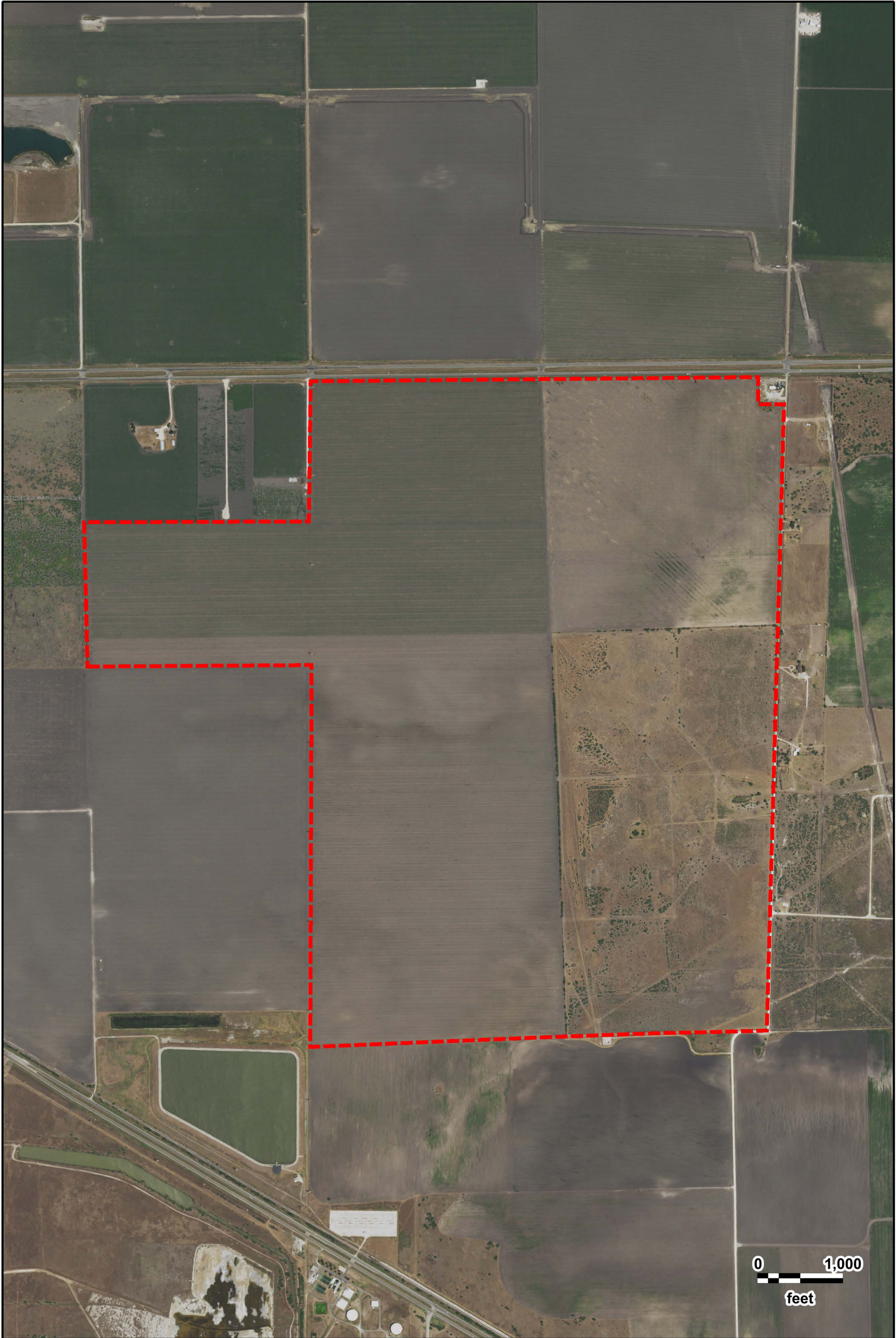
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2014	USDA	1" = 1000'	N/A
2012	USDA	1" = 1000'	N/A
2010	USDA	1" = 1000'	N/A
2008	USDA	1" = 1000'	N/A
2006	USDA	1" = 1000'	N/A
2005	USDA	1" = 1000'	N/A
2004	USDA	1" = 1000'	N/A
01/23/1995	USGS	1" = 1000'	N/A
02/03/1984	USGS	1" = 1000'	165-3
12/22/1972	USGS	1" = 1000'	1-81
02/26/1968	USGS	1" = 1000'	5-193
02/22/1961	ASCS	1" = 1000'	4-203
03/19/1950	ASCS	1" = 1000'	5-64

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CCREDC Blue Bay Site Phase I ESA
USDA
2016



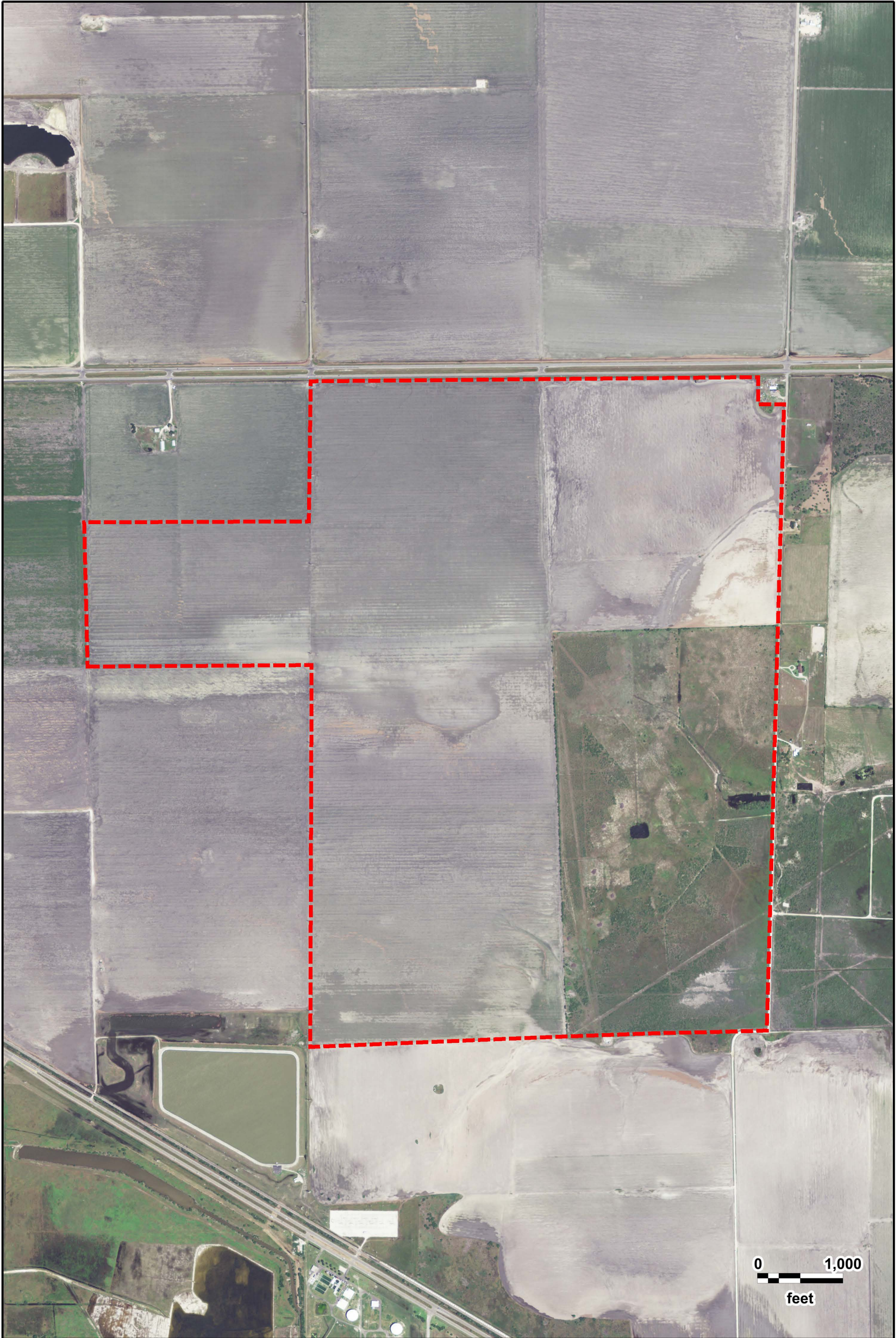


0 1,000
feet



CCREDC Blue Bay Site Phase I ESA
USDA
2014

GeoSearch

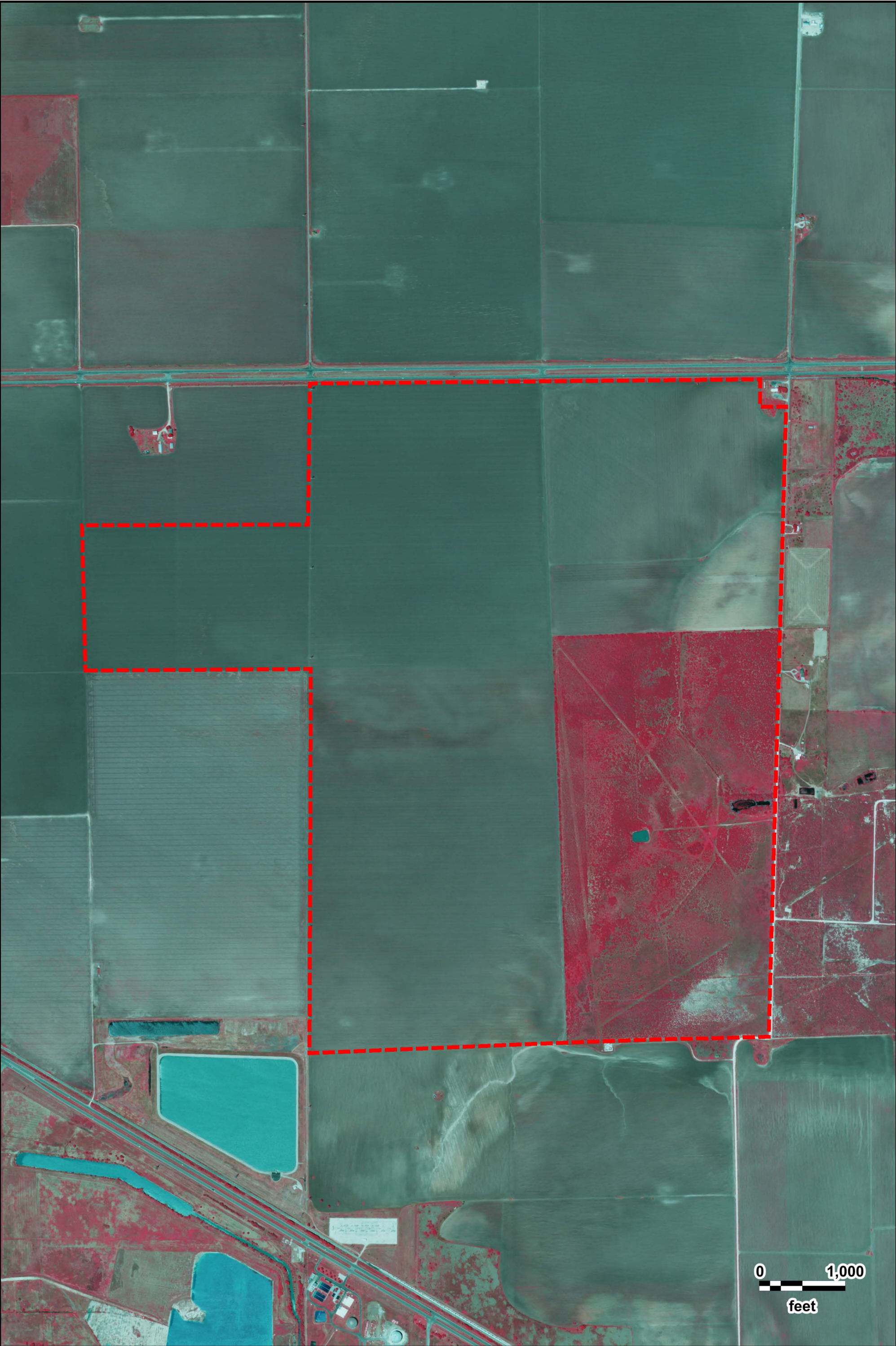


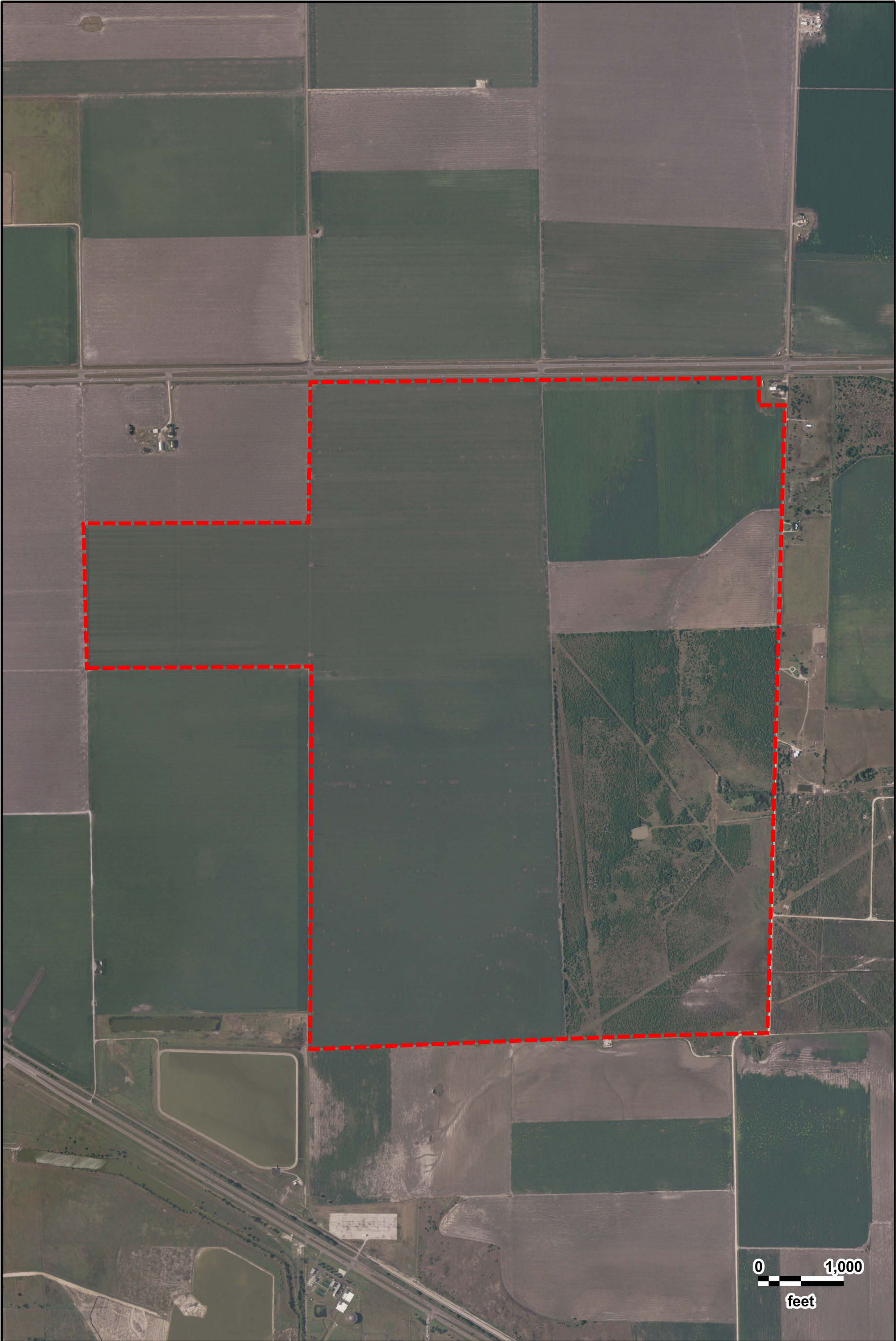
0 1,000
feet



CCREDC Blue Bay Site Phase I ESA
USDA
2012

GeoSearch



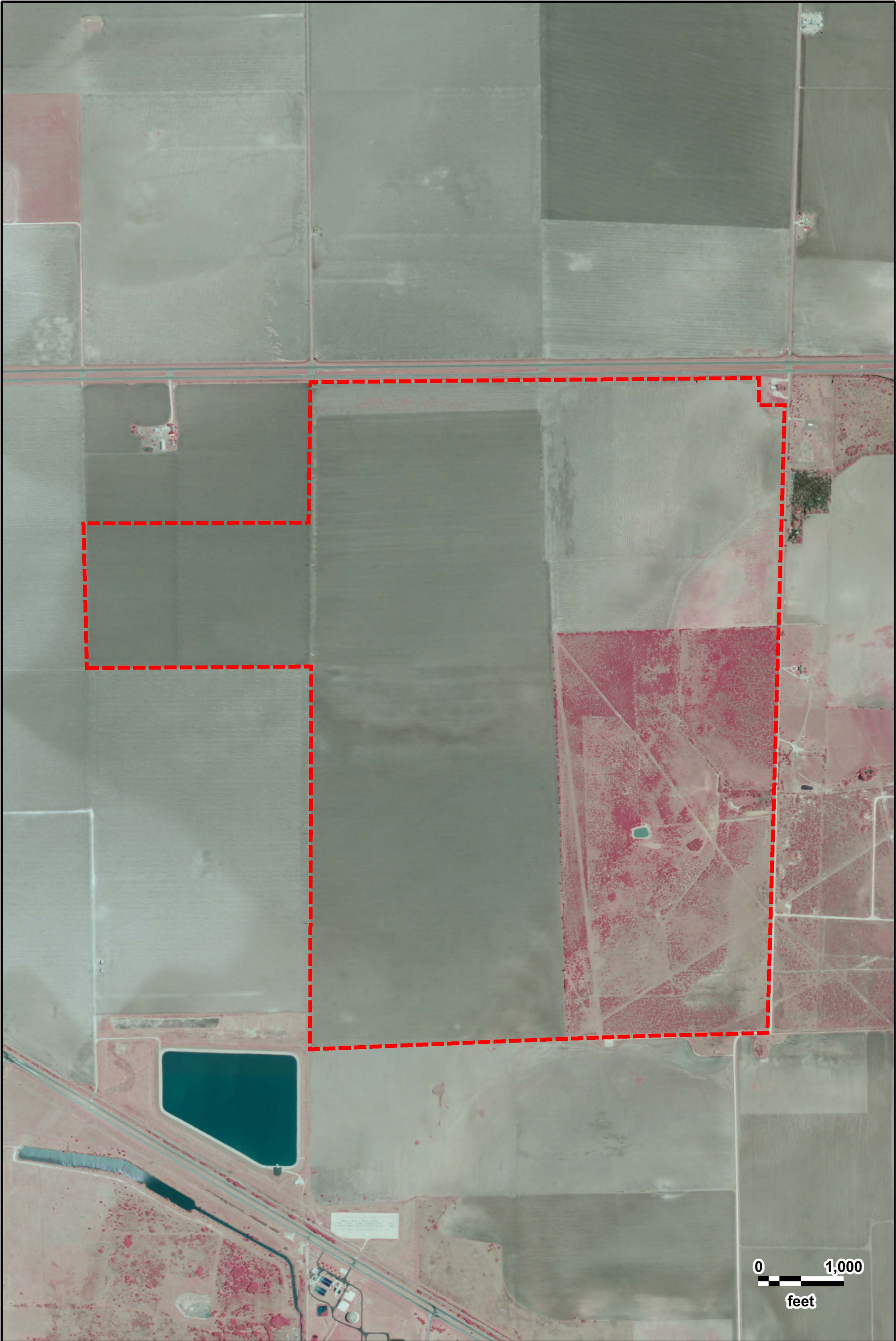


0 1,000
feet



CCREDC Blue Bay Site Phase I ESA
USDA
2008

GeoSearch

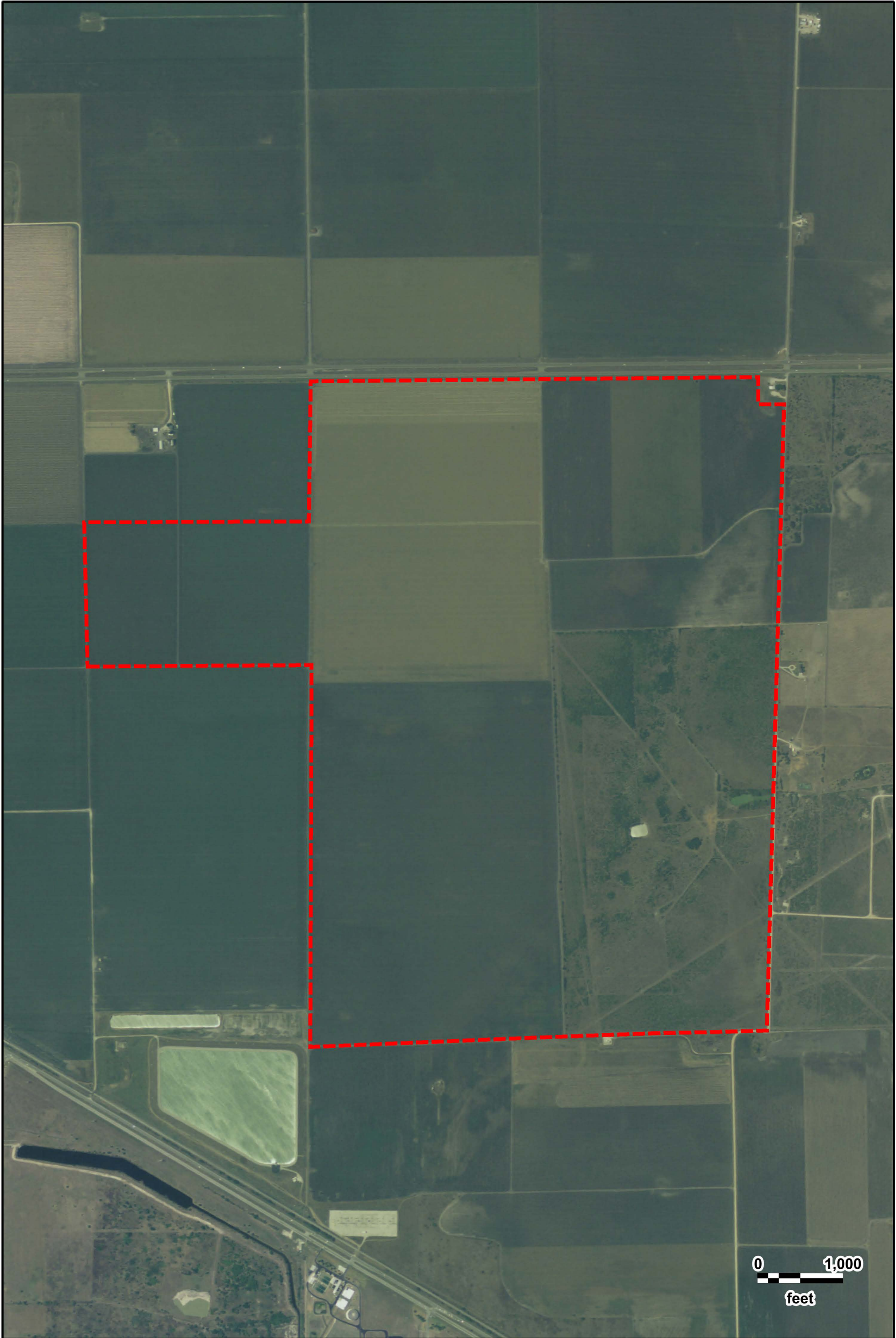


0 1,000
feet



CCREDC Blue Bay Site Phase I ESA
USDA
2006

GeoSearch

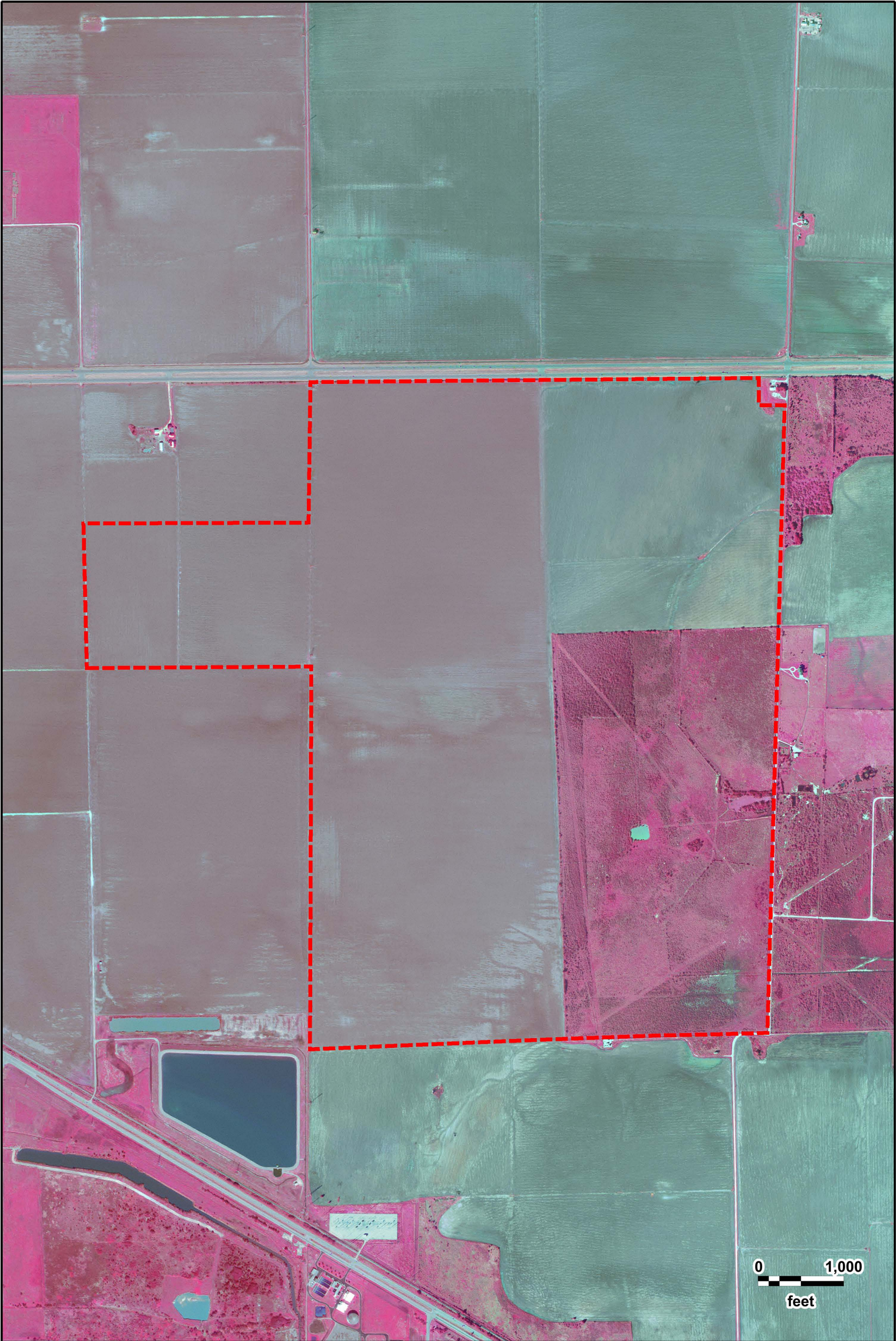


0 1,000
feet



CCREDC Blue Bay Site Phase I ESA
USDA
2005





CCREDC Blue Bay Site Phase I ESA
USDA
2004



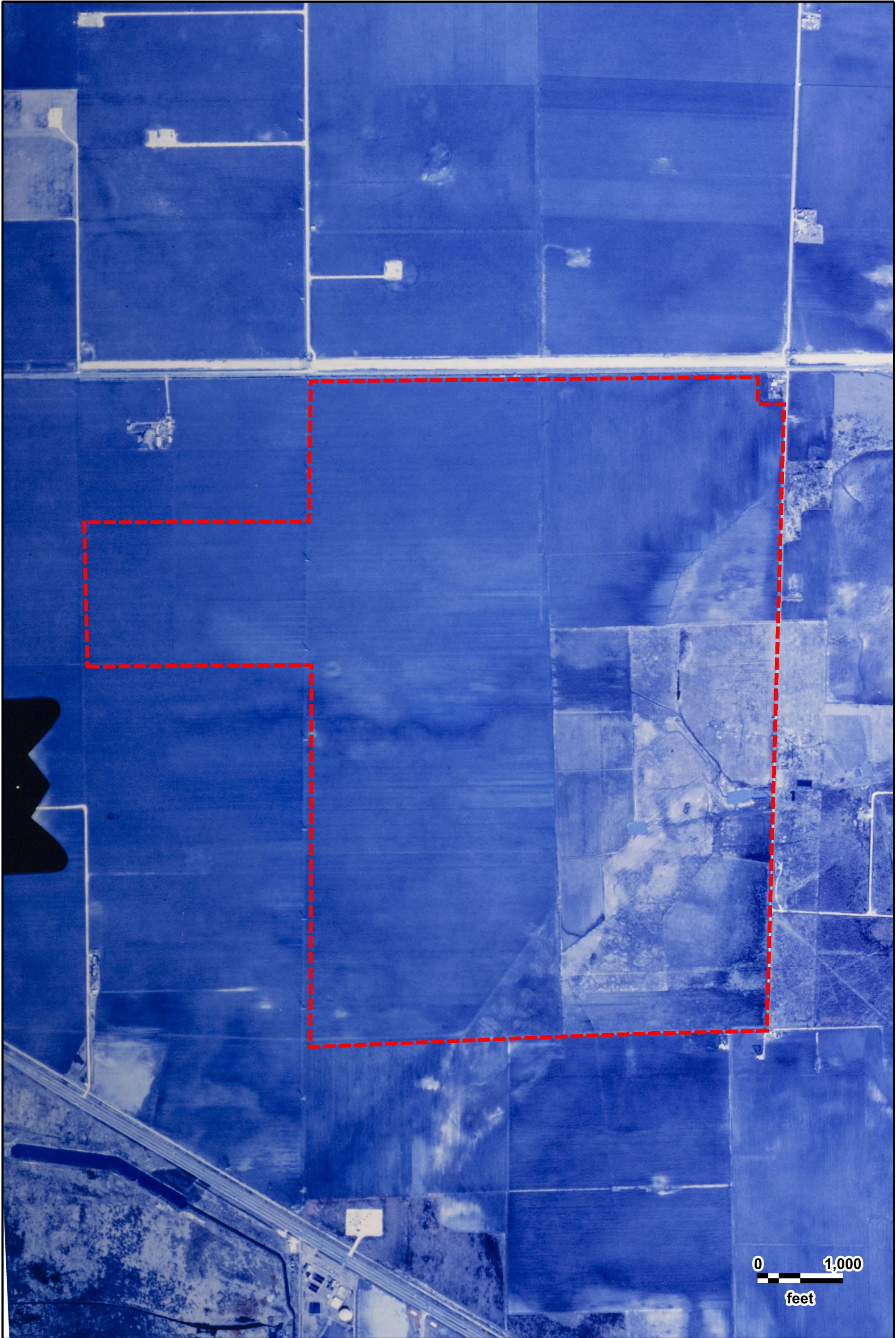


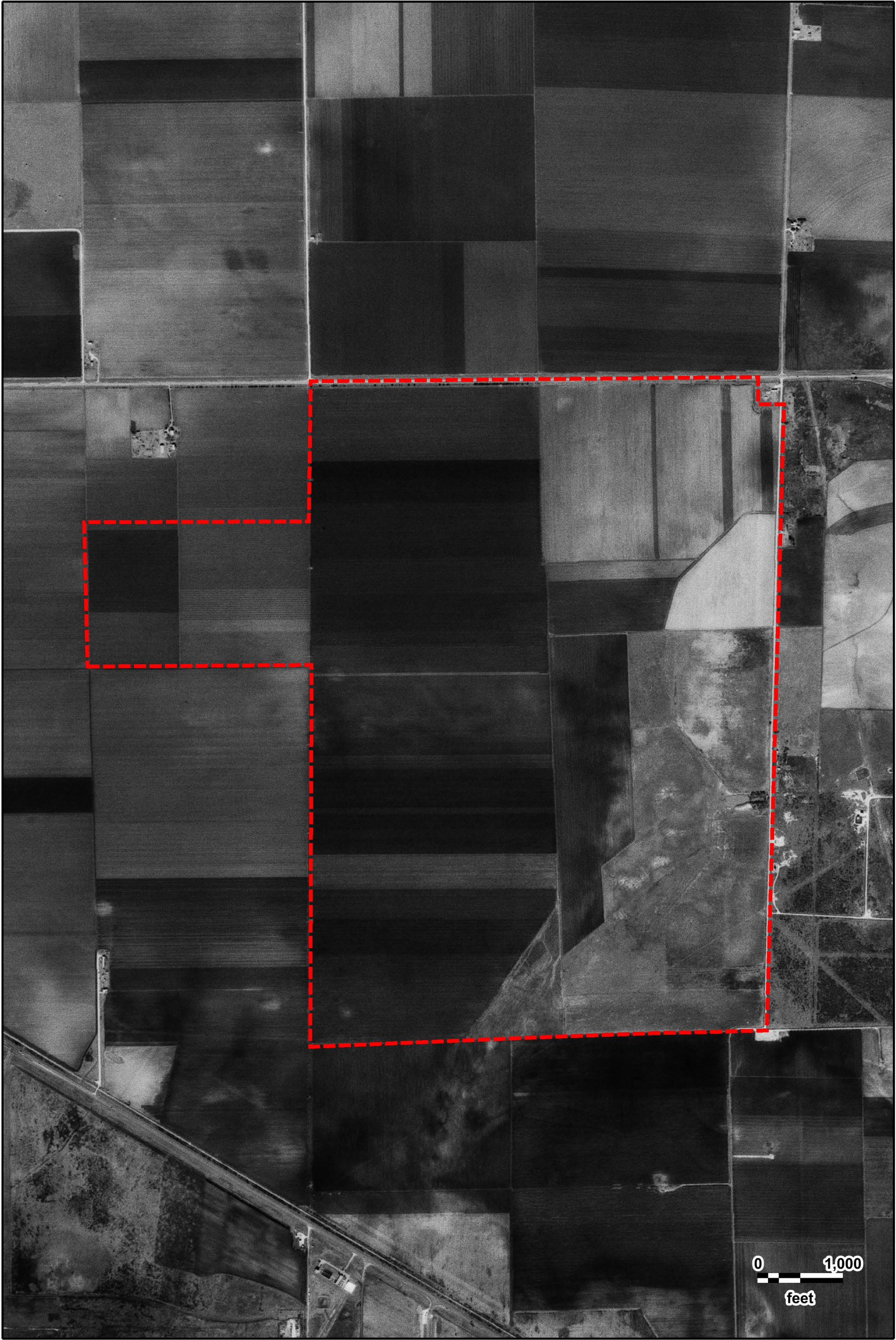
0 1,000
feet



CCREDC Blue Bay Site Phase I ESA
USGS
01/23/1995

GeoSearch



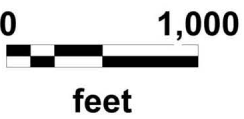
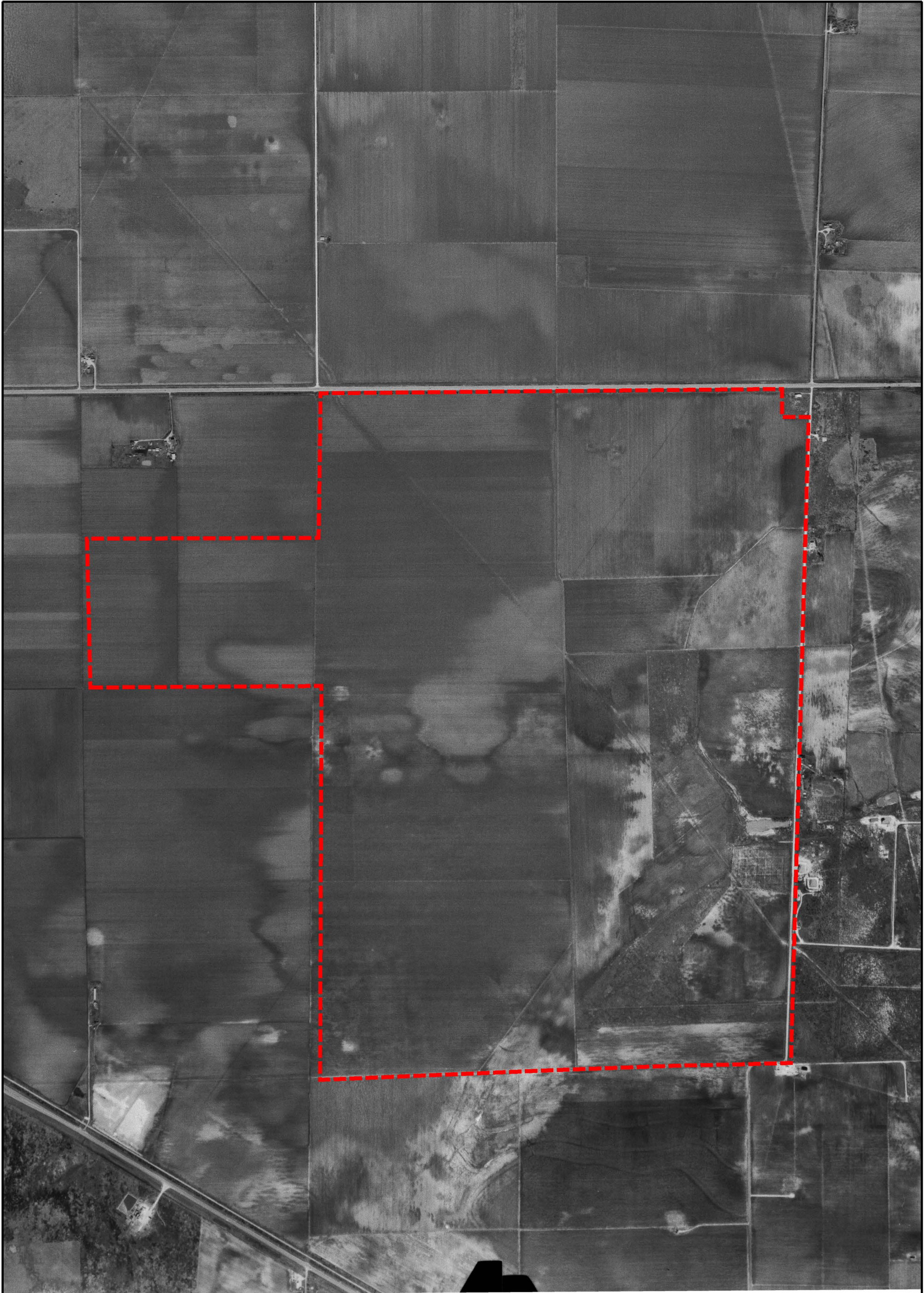


0 1,000
feet



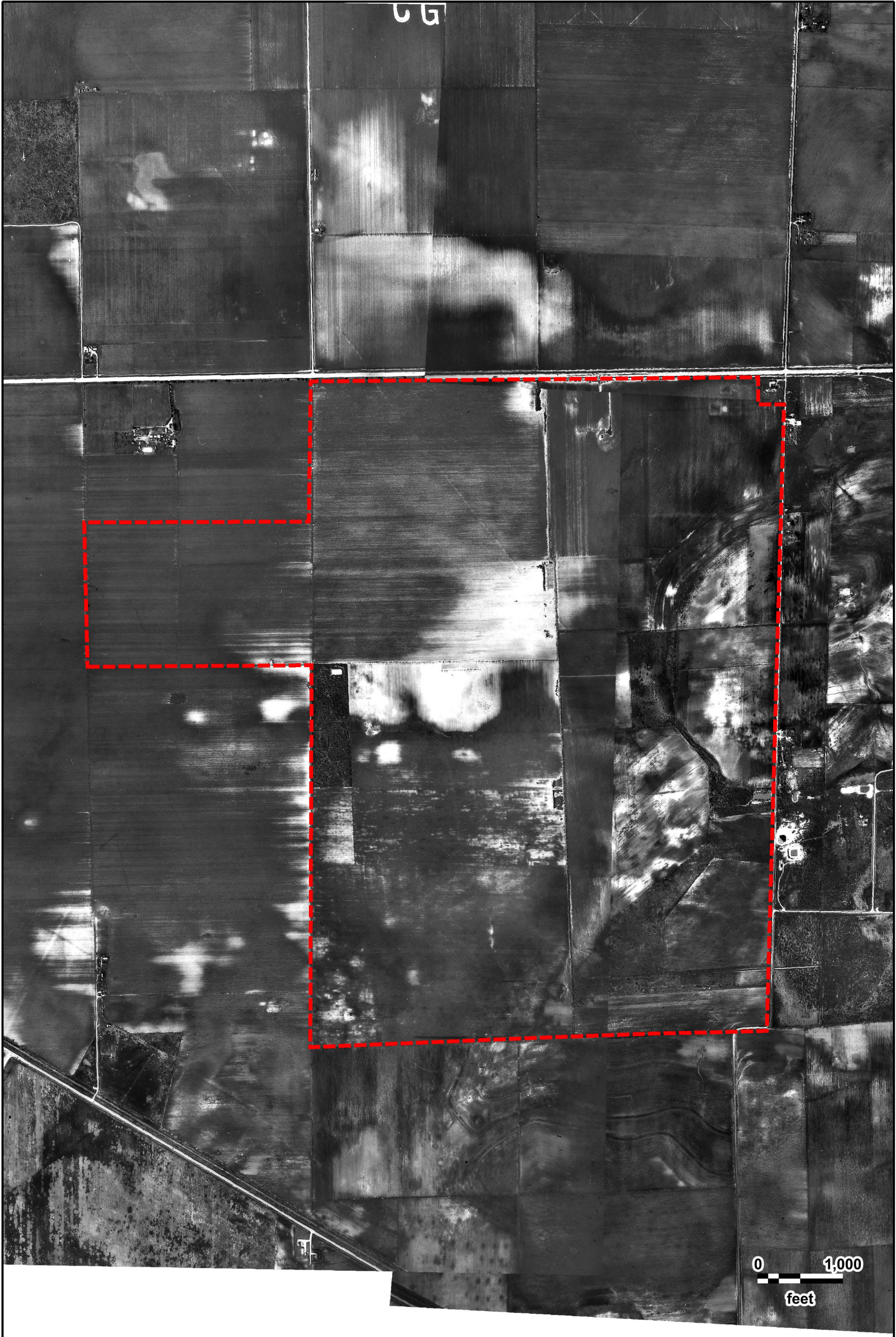
CCREDC Blue Bay Site Phase I ESA
USGS
12/22/1972

GeoSearch



CCREDC Blue Bay Site Phase I ESA
USGS
02/26/1968





CCREDC Blue Bay Site Phase I ESA
ASCS
02/22/1961





0 1,000
feet



CCREDC Blue Bay Site Phase I ESA
ASCS
03/19/1950

GeoSearch

Exhibit D

Historical Topographic Maps

Historical Topographic Maps

Target Property:

**CCREDC Blue Bay Site Phase I ESA
State Hwy 35
Gregory, San Patricio, Texas 78374**

Prepared For:

Hanson Professional Services

Order #: 100526

Job #: 219592

Project #: 18L0013

Date: 1/18/2018

Target Property Summary

CCREDC Blue Bay Site Phase I ESA

State Hwy 35

Gregory, San Patricio, Texas 78374

USGS Quadrangle: GREGORY, ARANSAS PASS

Target Property Geometry: Area

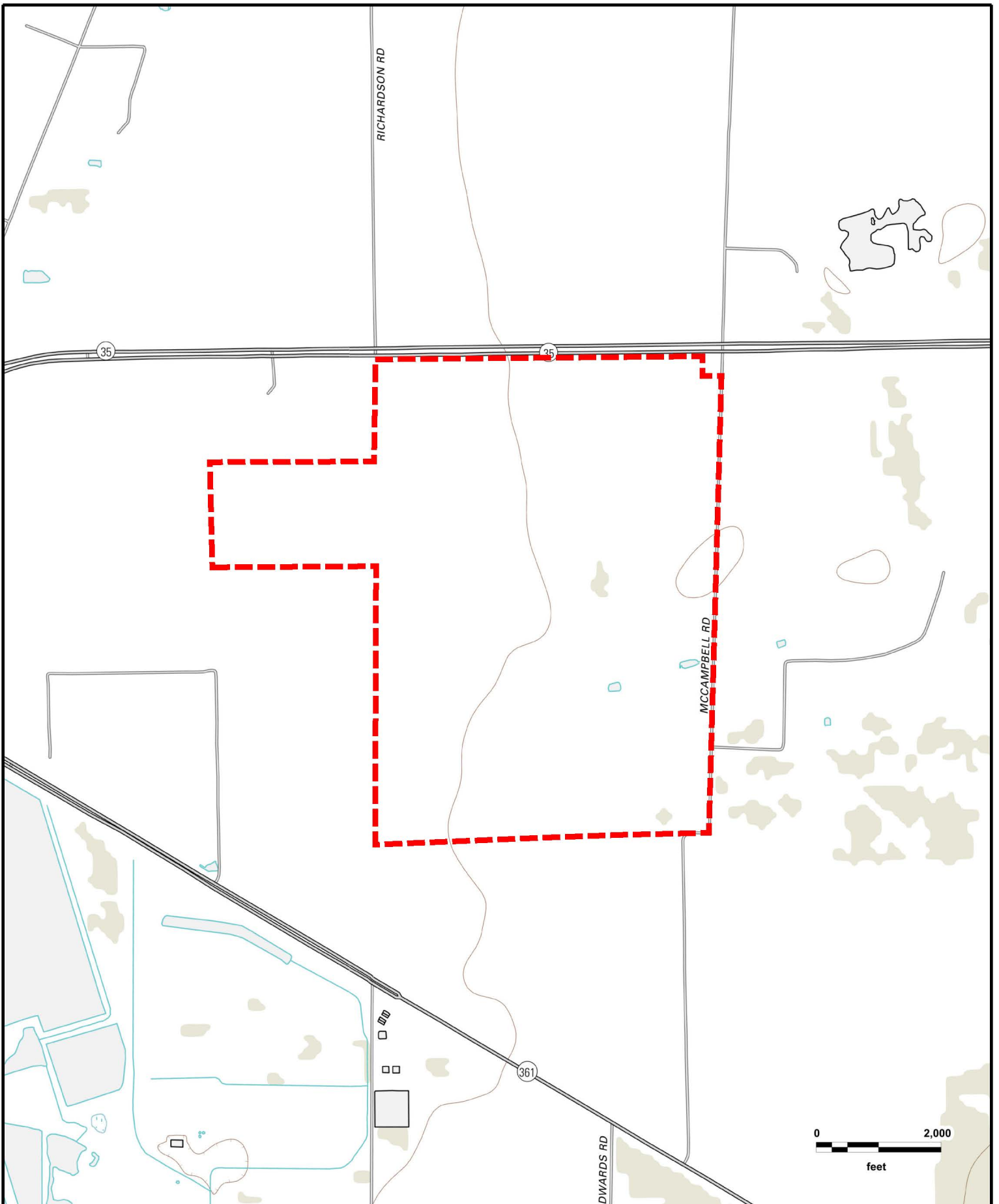
Target Property Longitude(s)/Latitude(s):

**(-97.256823778, 27.918065436), (-97.256941795, 27.922672711), (-97.248798609, 27.922701151),
(-97.248734236, 27.927175517), (-97.232522964, 27.927308229), (-97.232522964, 27.926445601),
(-97.231578827, 27.926445601), (-97.232211828, 27.906442094), (-97.234183252, 27.906394688),
(-97.236294150, 27.906356763), (-97.240430117, 27.906224026), (-97.248744965, 27.905920626),
(-97.248702049, 27.918112836)**

Topographic Map Summary

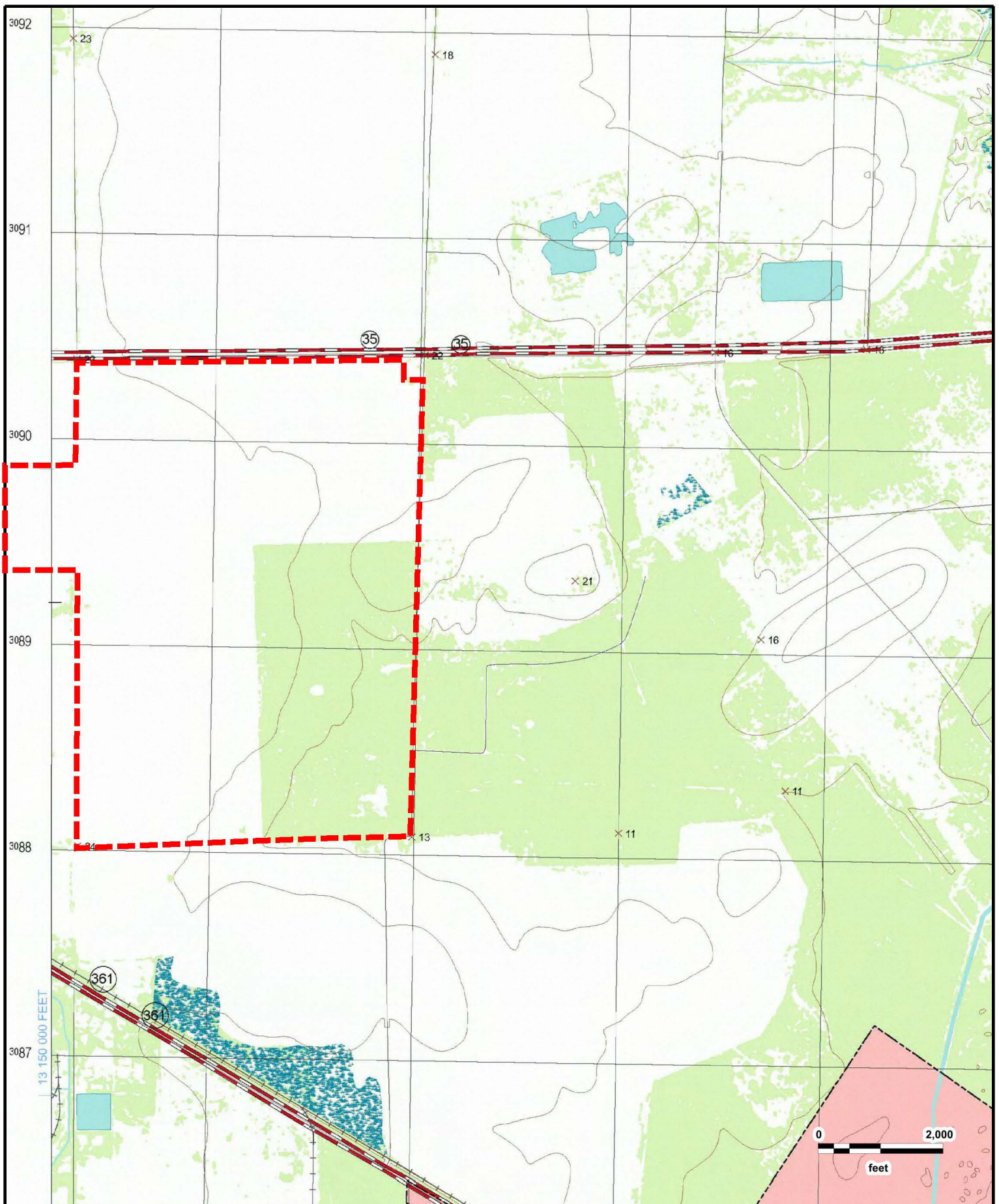
<u>Date</u>	<u>Quadrangle</u>	<u>Scale</u>
	Aransas Pass, TX (2013)	1" = 2000'
	Gregory, TX (2013)	
2008	Aransas Pass, TX	1" = 2000'
1971 PHOTOREVISED 1975	Aransas Pass, TX	1" = 2000'
1971	Aransas Pass, TX	1" = 2000'
1954	Aransas Pass, TX	1" = 2000'
1954	Aransas Pass, TX	1" = 5208'
1925	Aransas Pass, TX	1" = 5208'
1969 PHOTOREVISED 1975	Gregory, TX	1" = 2000'
1969	Gregory, TX	1" = 2000'
1951	Corpus Christi, TX	1" = 5208'
1925	Corpus Christi, TX	1" = 5208'
1920	Corpus Christi, TX	1" = 10420'

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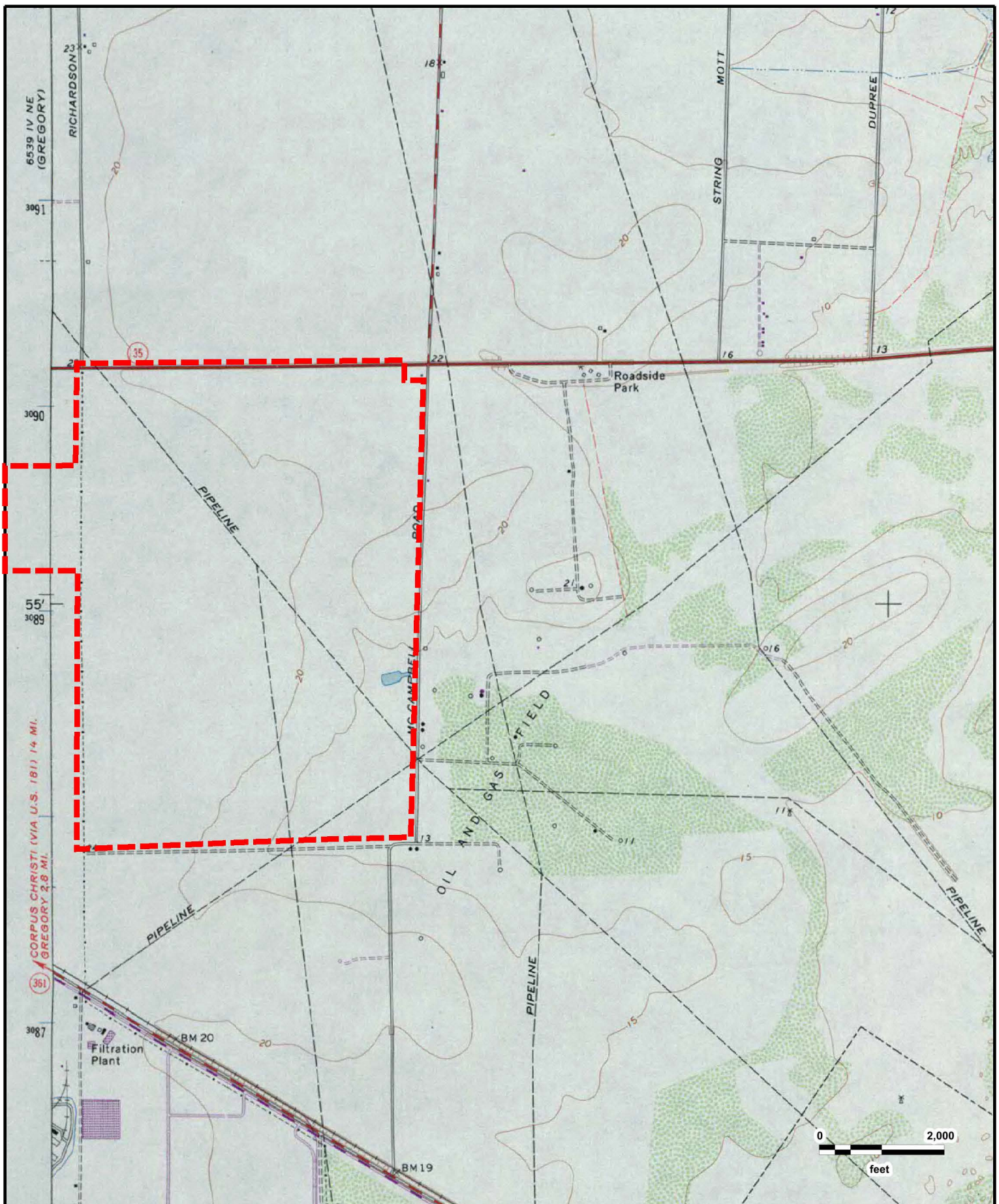
CCREDC Blue Bay Site Phase I ESA
Aransas Pass, TX (2013), Gregory, TX (2013)

GeoSearch



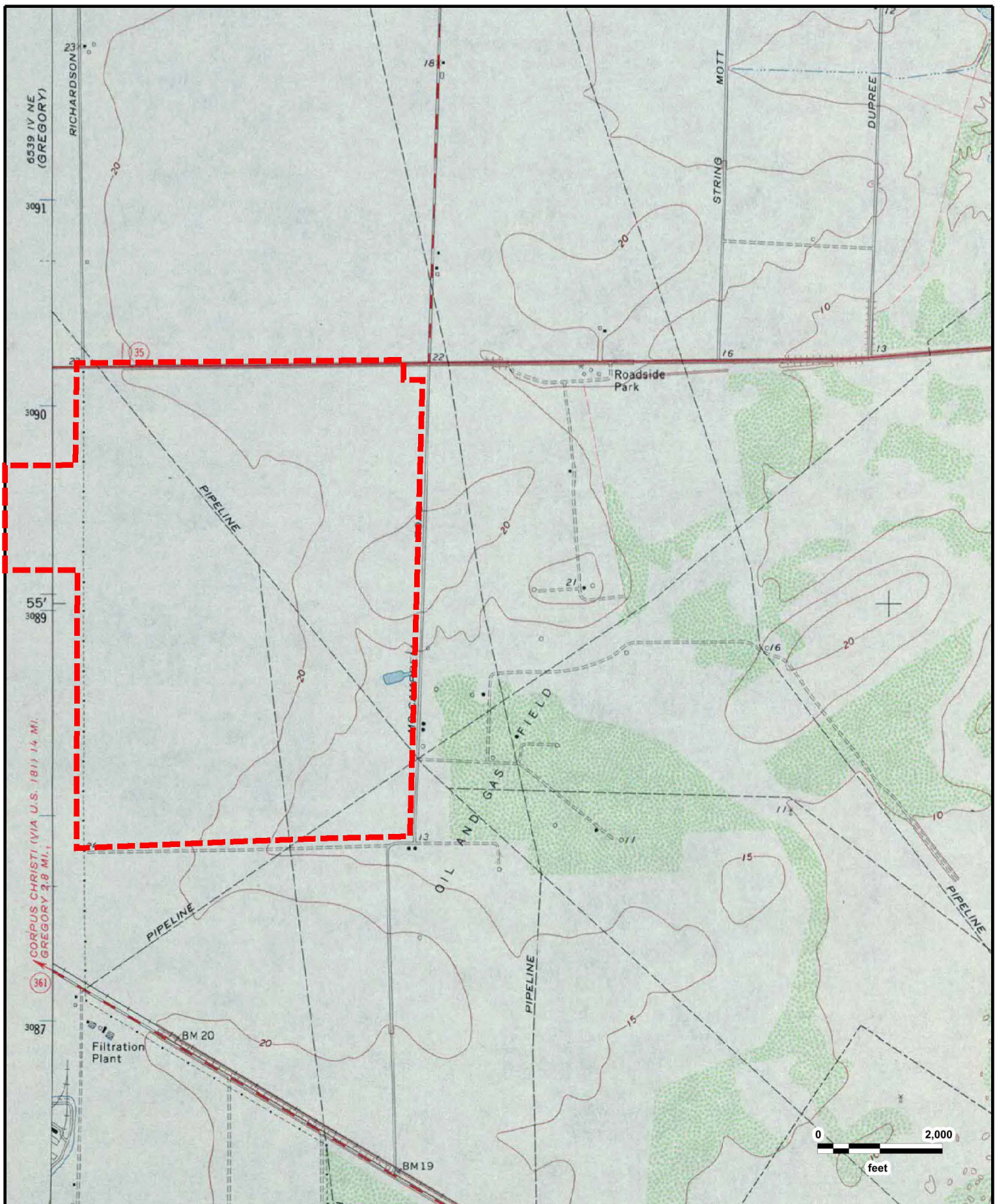
CCREDC Blue Bay Site Phase I ESA
Aransas Pass, TX (2008)

GeoSearch



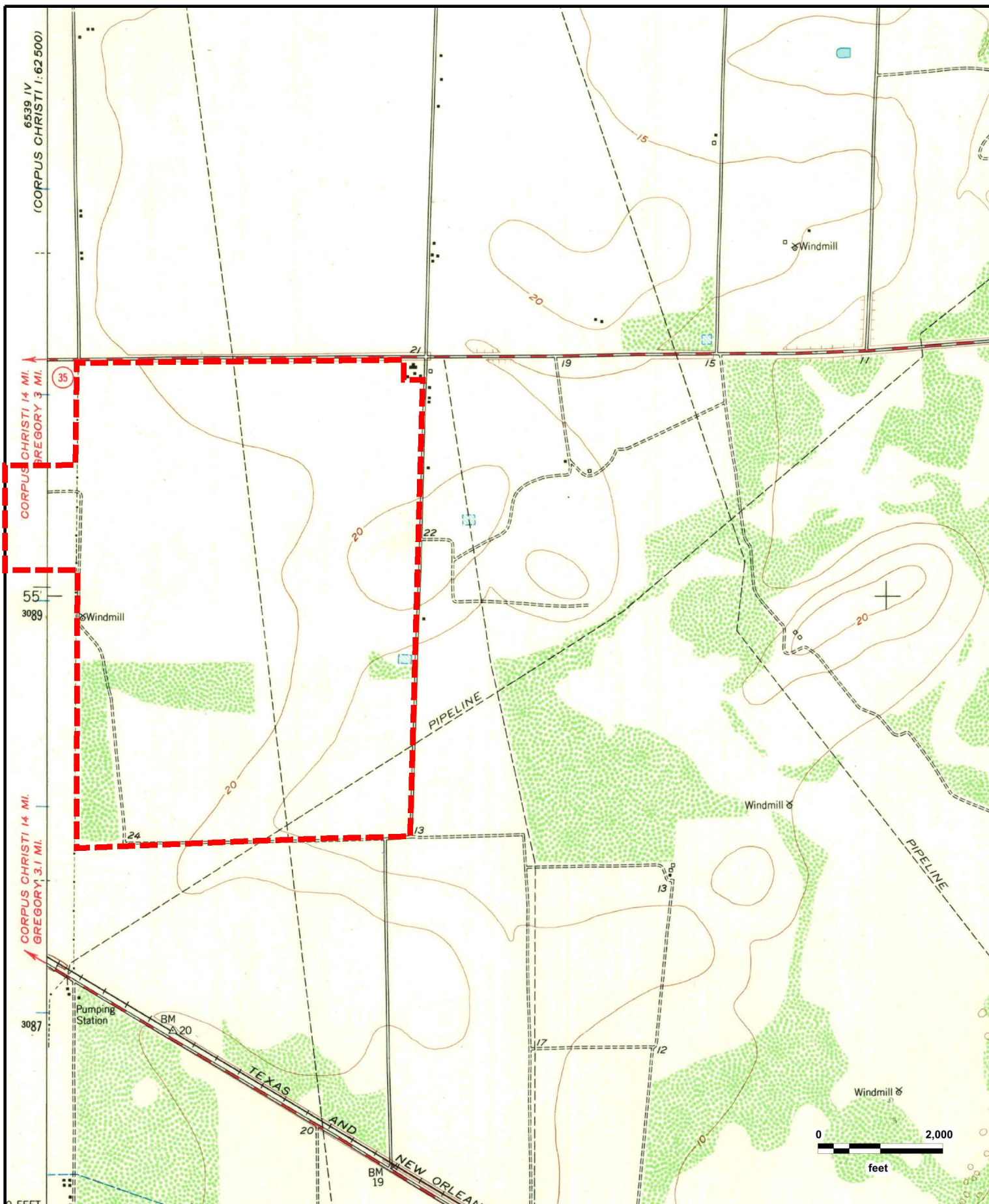
CCREDC Blue Bay Site Phase I ESA
Aransas Pass, TX (1975)

GeoSearch



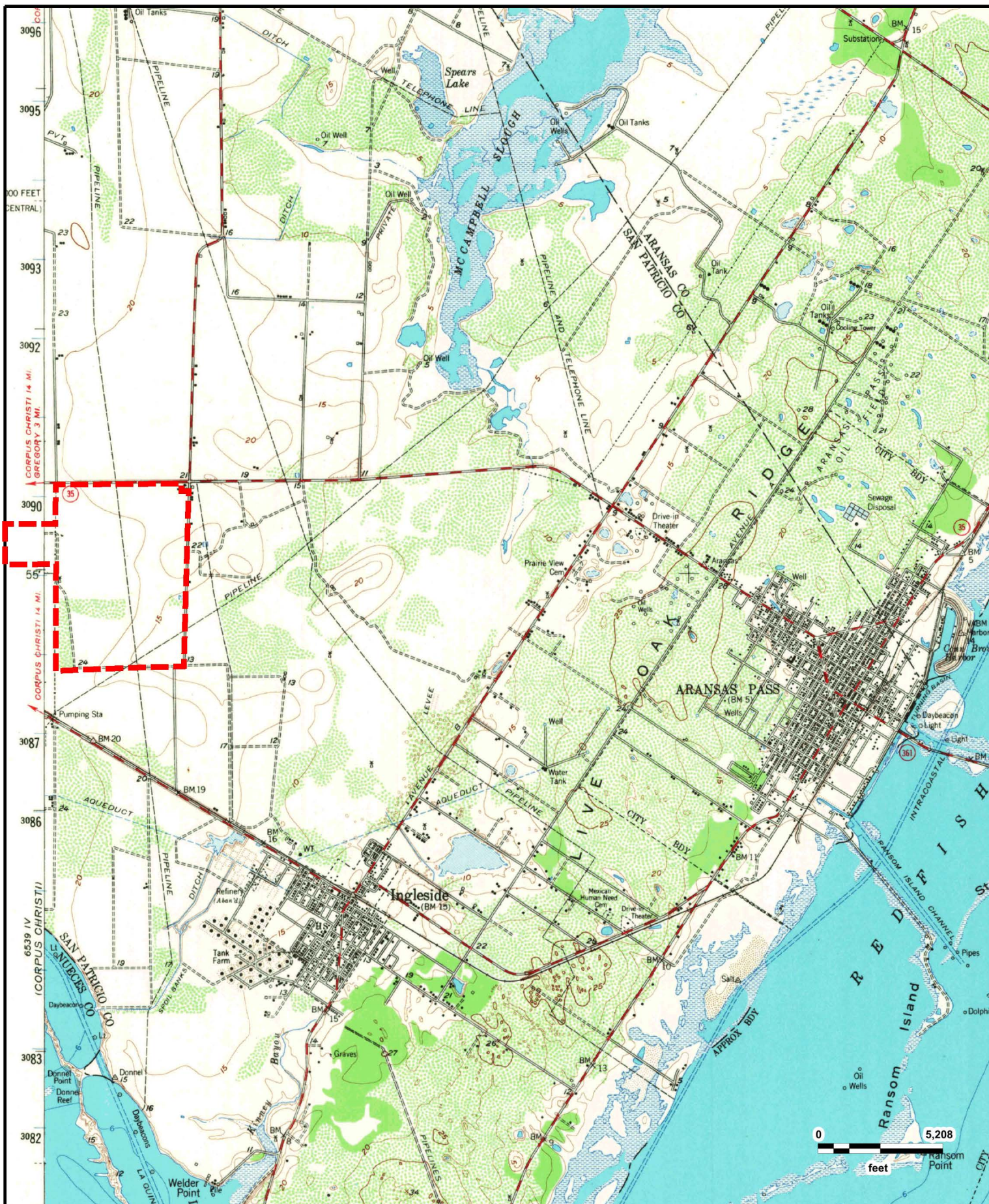
CCREDC Blue Bay Site Phase I ESA
Aransas Pass, TX (1971)

GeoSearch



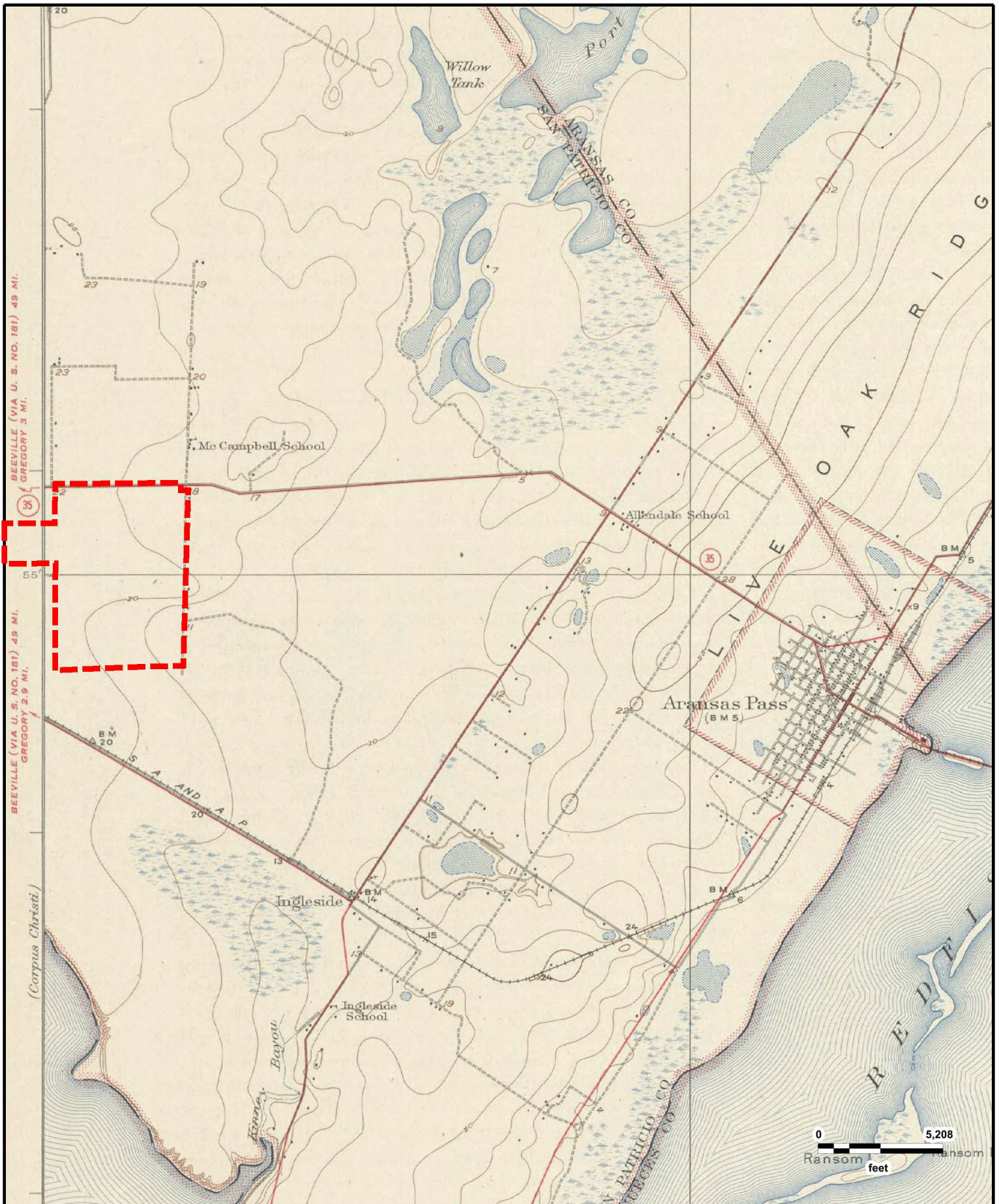
CCREDC Blue Bay Site Phase I ESA
Aransas Pass, TX (1954)

GeoSearch



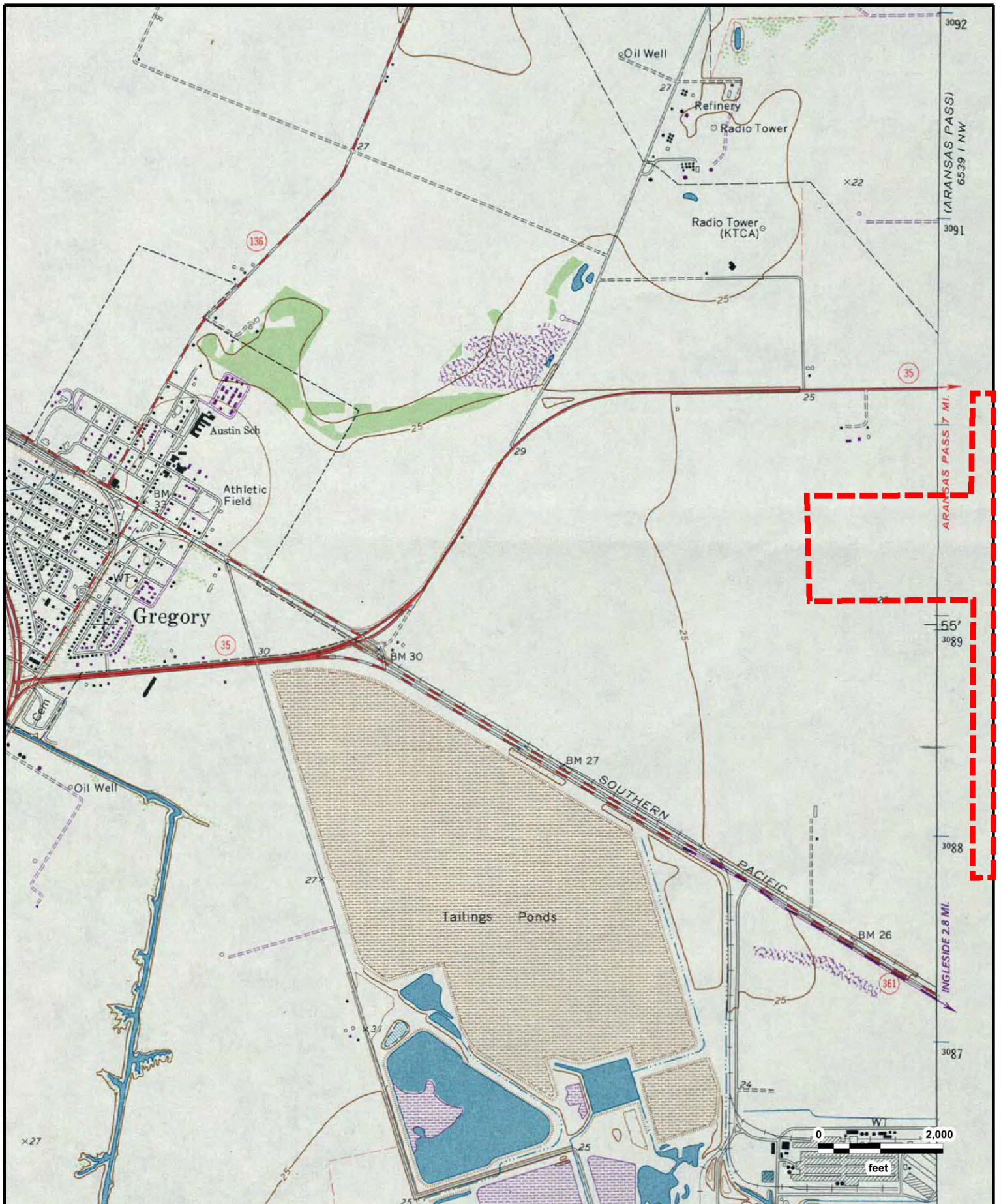
CCRED Blue Bay Site Phase I ESA
Aransas Pass, TX (1954)

GeoSearch



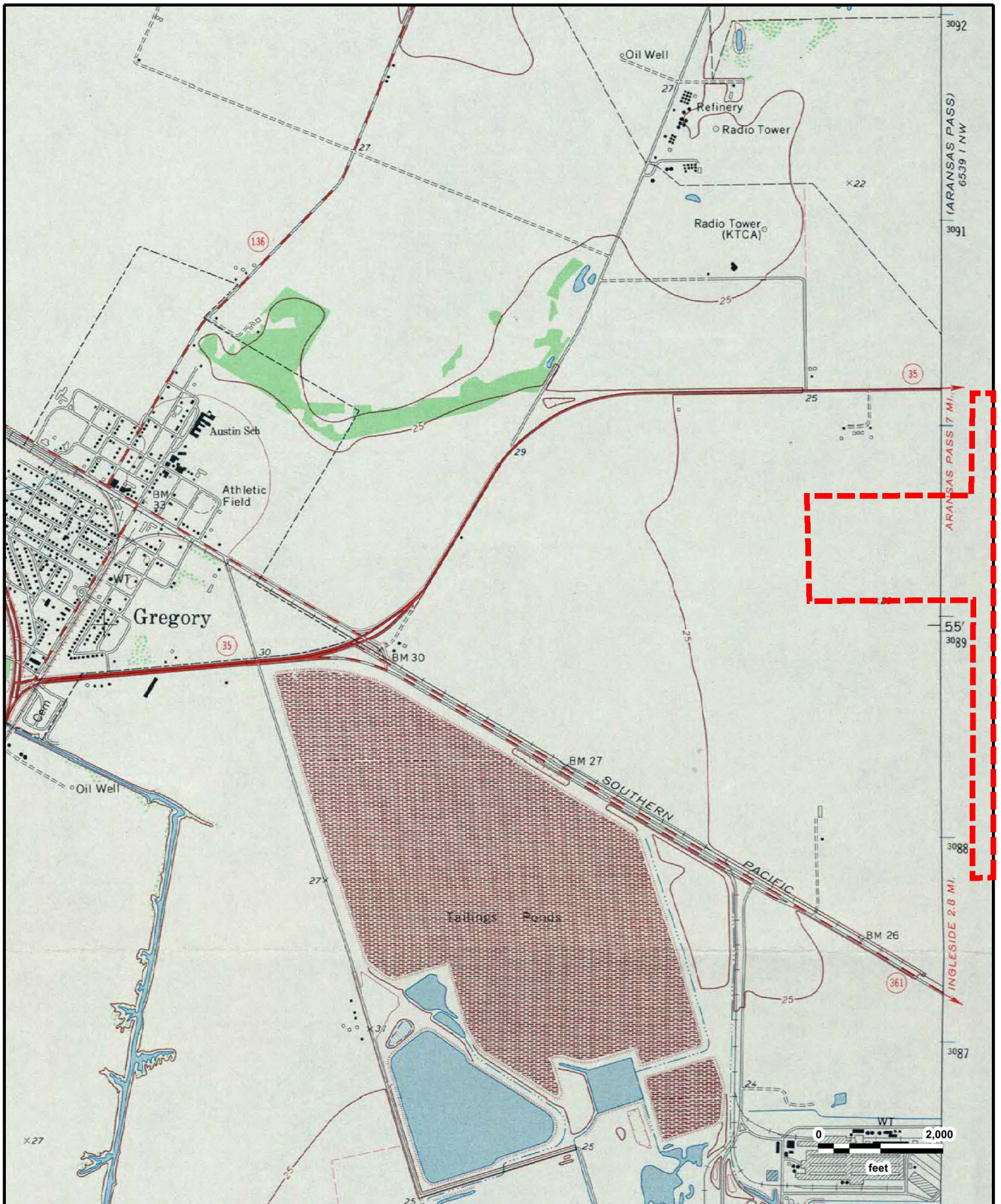
CCREDC Blue Bay Site Phase I ESA
Aransas Pass, TX (1925)

GeoSearch



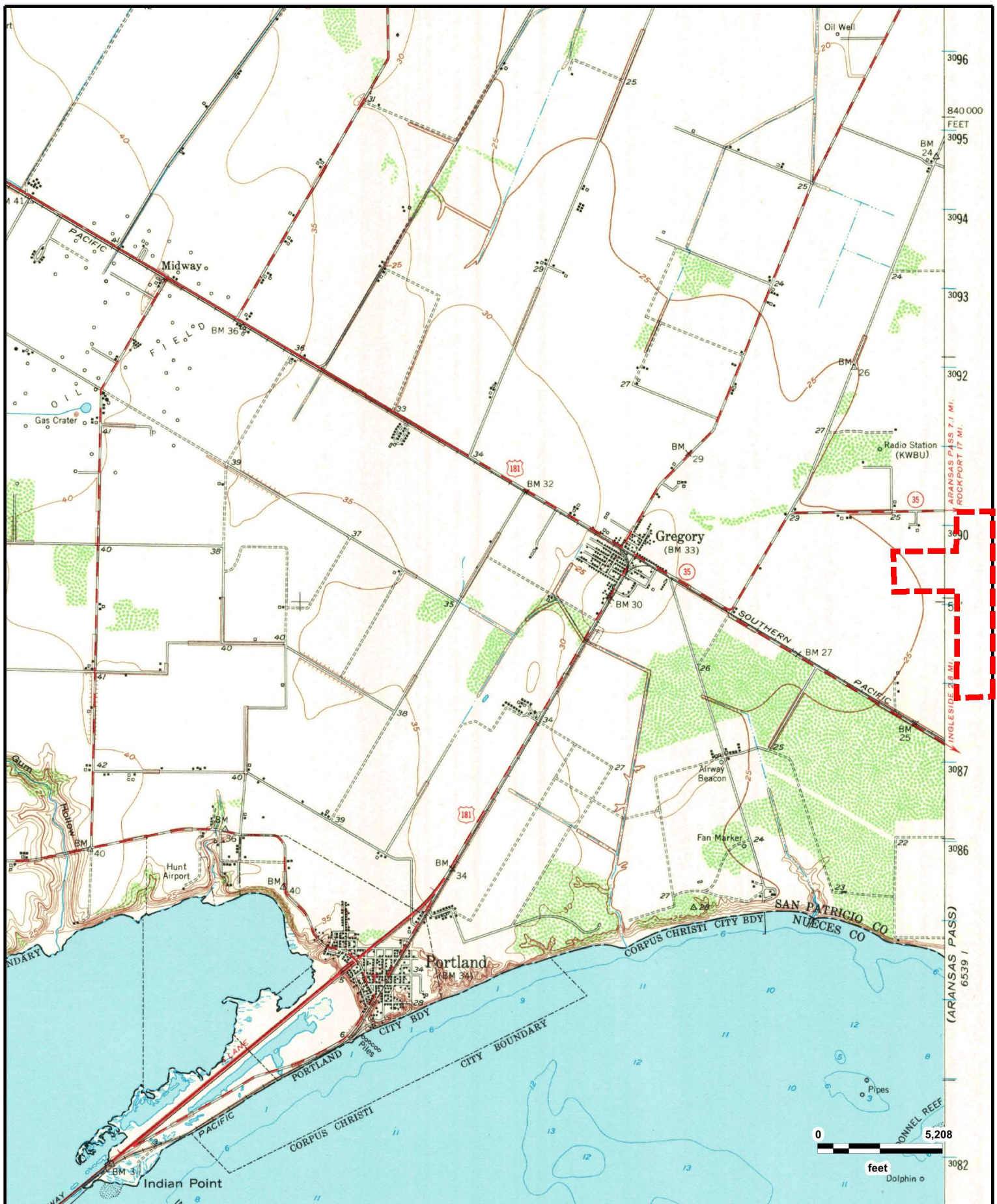
CCREDC Blue Bay Site Phase I ESA
Gregory, TX (1975)

GeoSearch



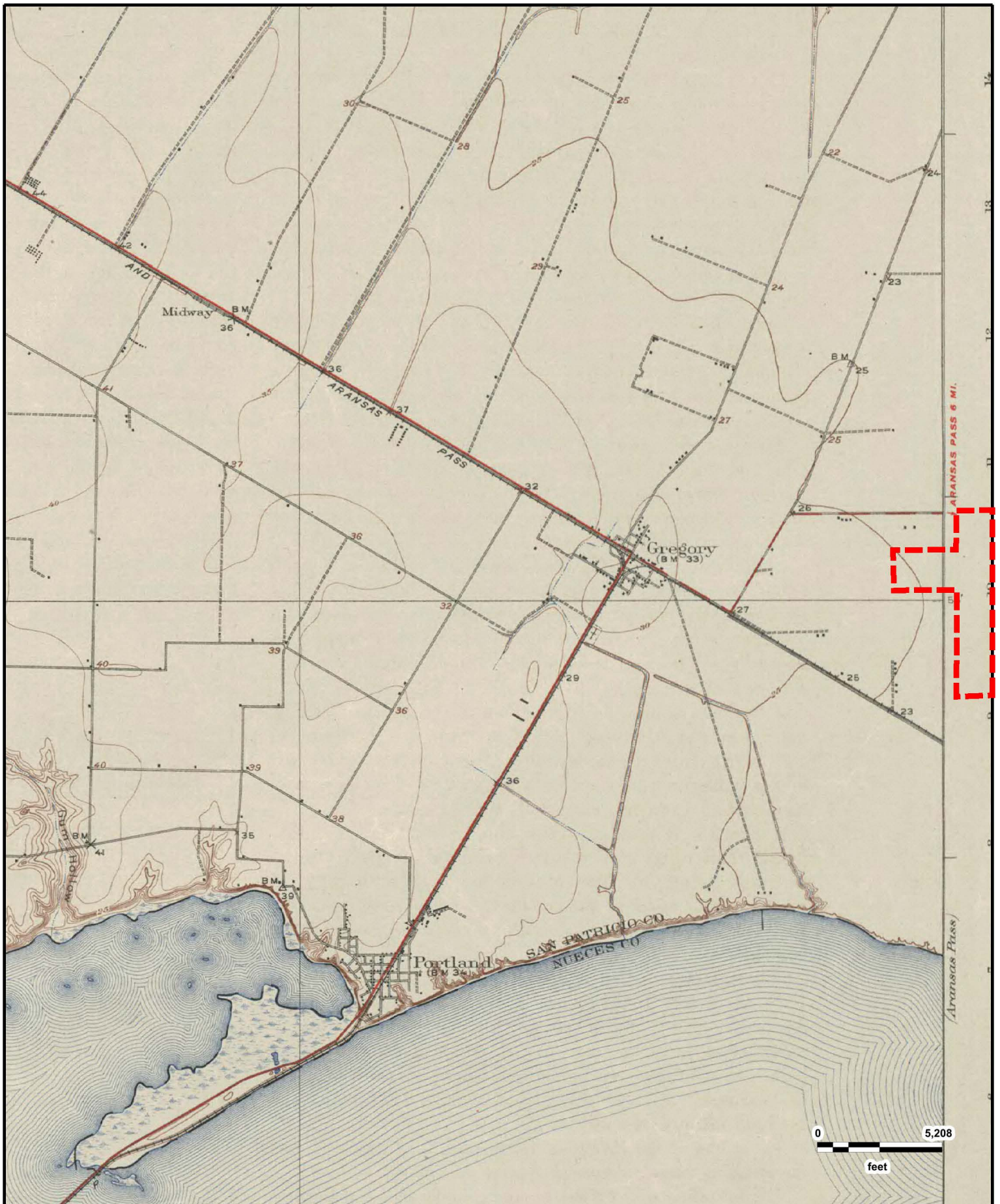
CCREDC Blue Bay Site Phase I ESA
Gregory, TX (1969)

GeoSearch



CCREDC Blue Bay Site Phase I ESA
Corpus Christi, TX (1951)

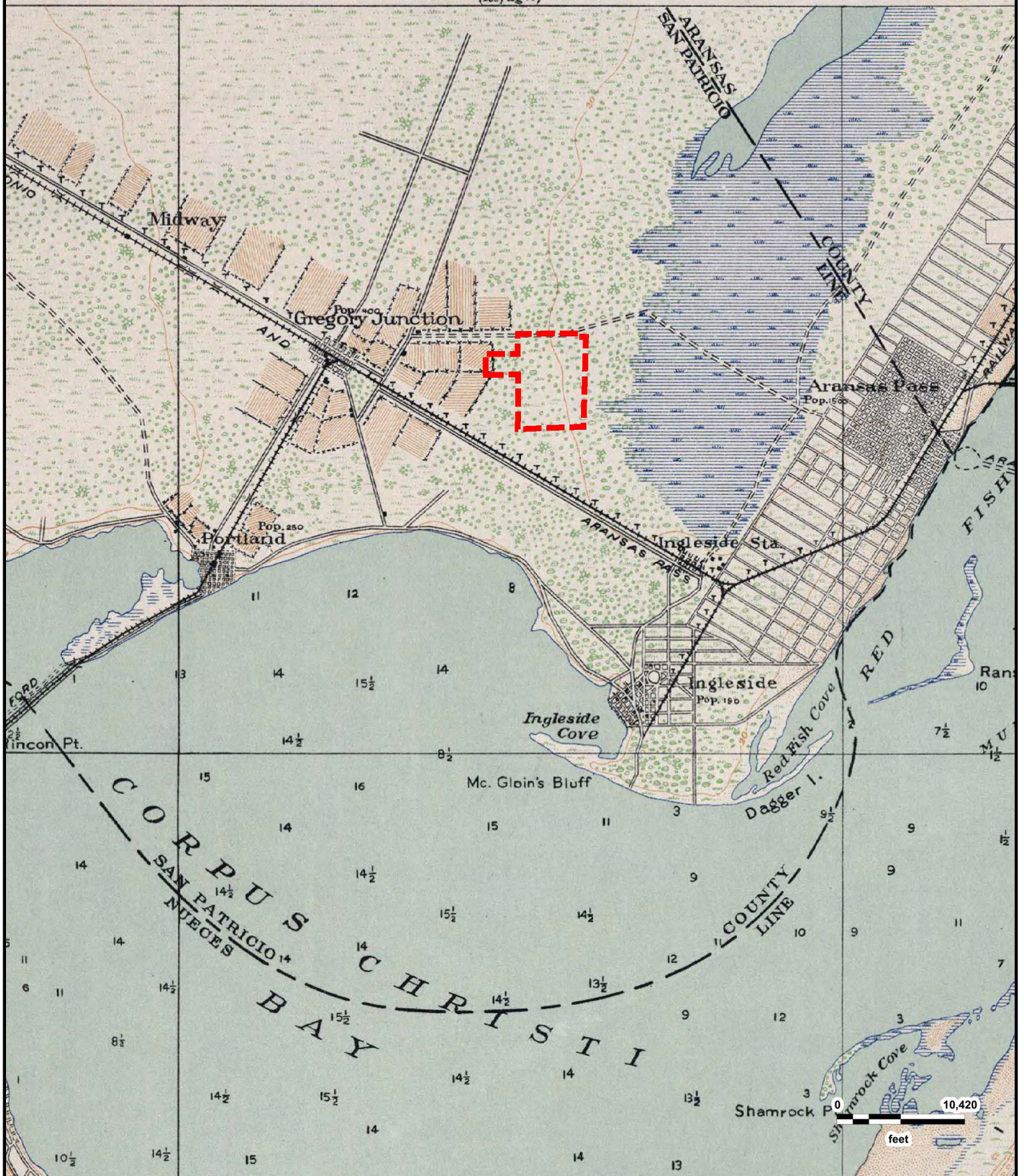
GeoSearch



CCREDC Blue Bay Site Phase I ESA
Corpus Christi, TX (1925)

GeoSearch

492-N-E/2 (Refugio)



CCREDC Blue Bay Site Phase I ESA
Corpus Christi, TX (1920)

GeoSearch

Exhibit E

City Directory Reports

City Directory Target Property Address

Target Property:

*State Highway 35,
Aransas Pass, TX 78336*

Prepared For:

Hanson Professional Services

Order #: 100526

Project #: 18L0013

Date: 1/22/2018

City Directory Target Property Address

State Highway 35, Aransas Pass, TX 78336

1 STATE HIGHWAY 35

2001	RANGE NOT LISTED ENDS WITH 2490	COLE DIRECTORY	CORPUS CHRISTI
1995	RANGE NOT LISTED ENDS WITH 2311	COLE DIRECTORY	CORPUS CHRISTI

2171 STATE HIGHWAY 35

2011	AMW CONSTRUCTION LLC	INFOUSA	SOUTH CENTRAL
------	----------------------	---------	---------------

2186 STATE HIGHWAY 35

2011	HALL'S PAINT & BODY	INFOUSA	SOUTH CENTRAL
2011	X [END OF LISTING]	INFOUSA	SOUTH CENTRAL

2298 STATE HIGHWAY 35

2016	PLANT WILLIAM	INFOUSA	SOUTH CENTRAL
------	---------------	---------	---------------

2391 STATE HIGHWAY 35

2016	COASTAL ALUMINUM DESIGNS	INFOUSA	SOUTH CENTRAL
------	--------------------------	---------	---------------

2393 STATE HIGHWAY 35

2016	MIKE'S BOAT REPAIR	INFOUSA	SOUTH CENTRAL
2016	X [END OF LISTING]	INFOUSA	SOUTH CENTRAL

2490 STATE HIGHWAY 35

2006	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
------	--------------------	----------------	----------------

4109 STATE HIGHWAY 35

2006	MEKK INC	COLE DIRECTORY	CORPUS CHRISTI
2006	THE PLAYHE	COLE DIRECTORY	CORPUS CHRISTI
2006	X [END OF LISTING]	COLE DIRECTORY	CORPUS CHRISTI

Comment: State Highway 35 also listed as Highway 35 Byp.

City Directory Target Property Address

Target Property:

County Road 93,
Aransas Pass, TX 78336

Prepared For:

Hanson Professional Services

Order #: 100526

Project #: 18L0013

Date: 1/22/2018

City Directory Target Property Address

County Road 93, Aransas Pass, TX 78336

1 COUNTY ROAD 93

2016	STREET NOT LISTED	INFOUSA	SOUTH CENTRAL
2011	STREET BEGINS	INFOUSA	SOUTH CENTRAL
2006	STREET BEGINS	COLE DIRECTORY	CORPUS CHRISTI
2001	STREET NOT LISTED	COLE DIRECTORY	CORPUS CHRISTI
1995	STREET NOT LISTED	COLE DIRECTORY	CORPUS CHRISTI

4226 COUNTY ROAD 93

2011	PRICE JIM JR	INFOUSA	SOUTH CENTRAL
2011	X [END OF LISTING]	INFOUSA	SOUTH CENTRAL

4290 COUNTY ROAD 93

2006	JIM PRICE JR	COLE DIRECTORY	CORPUS CHRISTI
------	--------------	----------------	----------------

7118 COUNTY ROAD 93

2006	RICK HINOJOSA	COLE DIRECTORY	CORPUS CHRISTI
------	---------------	----------------	----------------

7398 COUNTY ROAD 93

2006	LINDA L BASIORKA	COLE DIRECTORY	CORPUS CHRISTI
2006	DEBBIE MARIE RICHARDS	COLE DIRECTORY	CORPUS CHRISTI

7546 COUNTY ROAD 93

2006	RONALD A BENTON	COLE DIRECTORY	CORPUS CHRISTI
------	-----------------	----------------	----------------

Comment: McCampbell Rd range listed on County Road 93.

Exhibit F

Fire Insurance Map Report



FIM Abstract

Target Property:
CCREDC Blue Bay Site Phase I ESA
State Hwy 35
Gregory, San Patricio County, Texas 78374

Prepared For:
Hanson Professional Services

Order #: 100526
Job #: 219595
Project #: 18L0013
Date: 01/18/2018

TARGET PROPERTY SUMMARY

CCREDC Blue Bay Site Phase I ESA

State Hwy 35

Gregory, San Patricio County, Texas 78374

USGS Quadrangle: **Gregory, TX**

Target Property Geometry: **Area**

Target Property Longitude(s)/Latitude(s):

**(-97.256824, 27.918065), (-97.256942, 27.922673), (-97.248799, 27.922701), (-97.248734, 27.927176),
(-97.232523, 27.927308), (-97.232523, 27.926446), (-97.231579, 27.926446), (-97.232212, 27.906442),
(-97.234183, 27.906395), (-97.236294, 27.906357), (-97.240430, 27.906224), (-97.248745, 27.905921),
(-97.248702, 27.918113), (-97.256824, 27.918065)**

County/Parish Covered:

San Patricio (TX)

Zipcode(s) Covered:

Aransas Pass TX: 78336

Portland TX: 78374

State(s) Covered:

TX

***Target property is located in Radon Zone 3.**

**Zone 3 areas have a predicted average indoor radon screening level less than 2 pCi/L
(picocuries per liter).**

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Date: 01/18/18

GS Job Number: 100526

Company Name: Hanson Professional Services

Project Number: 18L0013

Site Information: CCREDC Blue Bay Site Phase I ESA
State Hwy 35, Gregory, San Patricio, Texas, 78374

The collections of fire insurance maps listed below were reviewed according to the site information supplied by client. Based on the information provided, no coverage is available.

Library of Congress
University Publications of America
Other Libraries (universities, state, local, etc.).

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Exhibit G

Environmental Lien Searches



Environmental Lien

Target Property:
CCREDC Blue Bay Site Phase I ESA
State Hwy 35
Gregory, San Patricio County, Texas 78374

Prepared For:
Hanson Professional Services

Order #: 100526
Job #: 219591
Project #: 18L0013
Date: 01/22/2018

TARGET PROPERTY SUMMARY

CCREDC Blue Bay Site Phase I ESA

State Hwy 35

Gregory, San Patricio County, Texas 78374

USGS Quadrangle: **Gregory, TX**

Target Property Geometry: **Area**

Target Property Longitude(s)/Latitude(s):

**(-97.256824, 27.918065), (-97.256942, 27.922673), (-97.248799, 27.922701), (-97.248734, 27.927176),
(-97.232523, 27.927308), (-97.232523, 27.926446), (-97.231579, 27.926446), (-97.232212, 27.906442),
(-97.234183, 27.906395), (-97.236294, 27.906357), (-97.240430, 27.906224), (-97.248745, 27.905921),
(-97.248702, 27.918113), (-97.256824, 27.918065)**

County/Parish Covered:

San Patricio (TX)

Zipcode(s) Covered:

Aransas Pass TX: 78336

Portland TX: 78374

State(s) Covered:

TX

***Target property is located in Radon Zone 3.**

Zone 3 areas have a predicted average indoor radon screening level less than 2 pCi/L (picocuries per liter).

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ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of San Patricio County Records Records for “Environmental Liens” only on the subject property as identified as Tax Parcel No. 51584, Gregory, TX. and find the following:

None found

We have done a search of San Patricio County Records Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel No. 51584, Gregory, TX. and find the following:

None found

ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of San Patricio County Recorders Records for “Environmental Liens” only on the subject property as identified as Tax Parcel No. 66395, Gregory, TX. and find the following:

None found

We have done a search of San Patricio County Recorders Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel No. 66395, Gregory, TX. and find the following:

None found

ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of San Patricio County Records Records for “Environmental Liens” only on the subject property as identified as Tax Parcel No. 62777, Gregory, TX. and find the following:

None found

We have done a search of San Patricio County Records Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel No. 62777, Gregory, TX. and find the following:

None found



ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of San Patricio County Recorders Records for "Environmental Liens" only on the subject property as identified as Tax Parcel No. 61806, Gregory, TX. and find the following:

None found

We have done a search of San Patricio County Recorders Records for "Activity and Use Limitations" (AUL's) only on the subject property as identified as Tax Parcel No. 61806, Gregory, TX. and find the following:

None found

ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of San Patricio County Recorders Records for “Environmental Liens” only on the subject property as identified as Tax Parcel No. 62761, Gregory, TX. and find the following:

None found

We have done a search of San Patricio County Recorders Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel No. 62761, Gregory, TX. and find the following:

None found



ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of San Patricio County Recorders Records for "Environmental Liens" only on the subject property as identified as Tax Parcel No. 113103, Gregory, TX. and find the following:

None found

We have done a search of San Patricio County Recorders Records for "Activity and Use Limitations" (AUL's) only on the subject property as identified as Tax Parcel No. 113103, Gregory, TX. and find the following:

None found



ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of San Patricio County Recorders Records for "Environmental Liens" only on the subject property as identified as Tax Parcel No. 114626, Gregory, TX. and find the following:

None found

We have done a search of San Patricio County Recorders Records for "Activity and Use Limitations" (AUL's) only on the subject property as identified as Tax Parcel No. 114626, Gregory, TX. and find the following:

None found

ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of San Patricio County Recorders Records for “Environmental Liens” only on the subject property as identified as Tax Parcel No. 62770, Gregory, TX. and find the following:

None found

We have done a search of San Patricio County Recorders Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel Nos. 62770, Gregory, TX. and find the following:

None found

Exhibit H

Railroad Commission of Texas Map

Public GIS Viewer Legend

Well Number



Well Locations

- Permitted Location
- Dry Hole
- Oil
- Gas
- Oil / Gas
- Plugged Oil
- Plugged Gas
- Canceled / Abandoned Location
- Plugged Oil / Gas
- Injection / Disposal
- Core Test
- Sulfur Test
- Storage from Oil
- Storage from Gas
- Shut-In Oil
- Shut-In Gas
- Injection / Disposal from Oil
- Injection / Disposal from Gas
- Injection / Disposal from Oil / Gas
- Geothermal
- Brine Mining
- Water Supply
- Water Supply from Oil
- Water Supply from Gas

- Water Supply from Oil / Gas
- Observation
- Observation from Oil
- Observation from Gas
- Observation from Oil / Gas
- Storage
- Service
- Service from Oil
- Service from Gas
- Service from Oil / Gas
- Storage from Oil / Gas
- Injection / Disposal from Storage
- Injection / Disposal from Storage / Oil
- Injection / Disposal from Storage / Gas
- Injection / Disposal from Storage / Oil / Gas
- Observation from Storage
- Observation from Storage / Oil
- Observation from Storage / Gas
- Observation from Storage / Oil / Gas
- Service from Storage
- Service from Storage / Oil
- Service from Storage / Gas
- Service from Storage / Oil / Gas
- Plugged Storage
- Plugged Storage / Oil

Public GIS Viewer Legend

	Plugged Storage / Gas
	Plugged Storage Oil / Gas
	Brine Mining
	Brine Mining / Oil
	Brine Mining / Gas
	Brine Mining / Oil / Gas
	Injection / Disposal from Brine Mining
	Injection / Disposal from Brine Mining / Oil
	Injection / Disposal from Brine Mining / Gas
	Injection / Disposal from Brine Mining / Oil / Gas
	Observation from Brine Mining
	Observation from Brine Mining / Oil
	Observation from Brine Mining / Gas
	Observation from Brine Mining / Oil / Gas
	Service from Brine Mining
	Service from Brine Mining / Oil
	Service from Brine Mining / Gas
	Service from Brine Mining / Oil / Gas
	Plugged Brine Mining
	Plugged Brine Mining / Oil
	Plugged Brine Mining / Gas
	Plugged Brine Mining / Oil / Gas
	Storage / Brine Mining

	Storage / Brine Mining / Oil
	Storage / Brine Mining / Gas
	Storage / Brine Mining / Oil / Gas
	Injection / Disposal from Storage / Brine Mining
	Injection / Disposal from Storage / Brine Mining / Oil
	Injection / Disposal from Storage / Brine Mining / Gas
	Injection / Disposal from Storage / Brine Mining / Oil / Gas
	Observation from Storage / Brine Mining
	Observation from Storage / Brine Mining / Oil
	Observation from Storage / Brine Mining / Gas
	Observation from Storage / Brine Mining / Oil / Gas
	Plugged Storage / Brine Mining
	Plugged Storage / Brine Mining / Oil
	Plugged Storage / Brine Mining / Gas
	Plugged Storage / Brine Mining / Oil / Gas

Orphan Wells



Commercial Disposal



Injection/Disposal



HCTS Deeper than 15,000 ft.



Public GIS Viewer Legend

High Cost Tight Sands



EOR H13 Oil Wells



Well Logs



Horiz/Dir Surface Locations



Horizontal Well



Directional Well

Horizontal/Directional Lines



LPGAS Sites



QPipelines



Pipelines



Bay Tracts



Offshore Areas



Offshore Tracts



Water Lines



Subdivisions



Railroads



Surveys



Quads



Alert Areas



Water



City Limits



Counties



Operator Cleanup Program Sites



Active



Closed

Oil and Gas Districts



AED Districts



Pipeline Safety Regions



Exhibit I

Oil and Gas Report

GeoPlus Oil & Gas Report

[Satellite view](#)

Target Property:

**CCREDC Blue Bay Site Phase I ESA
State Hwy 35
Gregory, San Patricio County, Texas 78374**

Prepared For:

Hanson Professional Services

Order #: 100526

Job #: 219594

Project #: 18L0013

Date: 01/18/2018

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Disclaimer

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Target Property Summary

Target Property Information

CCREDC Blue Bay Site Phase I ESA

State Hwy 35

Gregory, Texas 78374

Coordinates

Area

USGS Quadrangle

Gregory, TX

Aransas Pass, TX

Geographic Coverage Information

County/Parish: San Patricio (TX)

ZipCode(s):

Aransas Pass TX: 78336

Portland TX: 78374

Radon

* Target property is located in Radon Zone 3.

Zone 3 areas have a predicted average indoor radon screening level less than 2 pCi/L (picocuries per liter).

Database Radius Summary

STATE (TX) LISTING

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
OGWELLS	0.5000	8	7	7	16	NS	NS	38

SUB-TOTAL		8	7	7	16	0	0	38
-----------	--	---	---	---	----	---	---	----

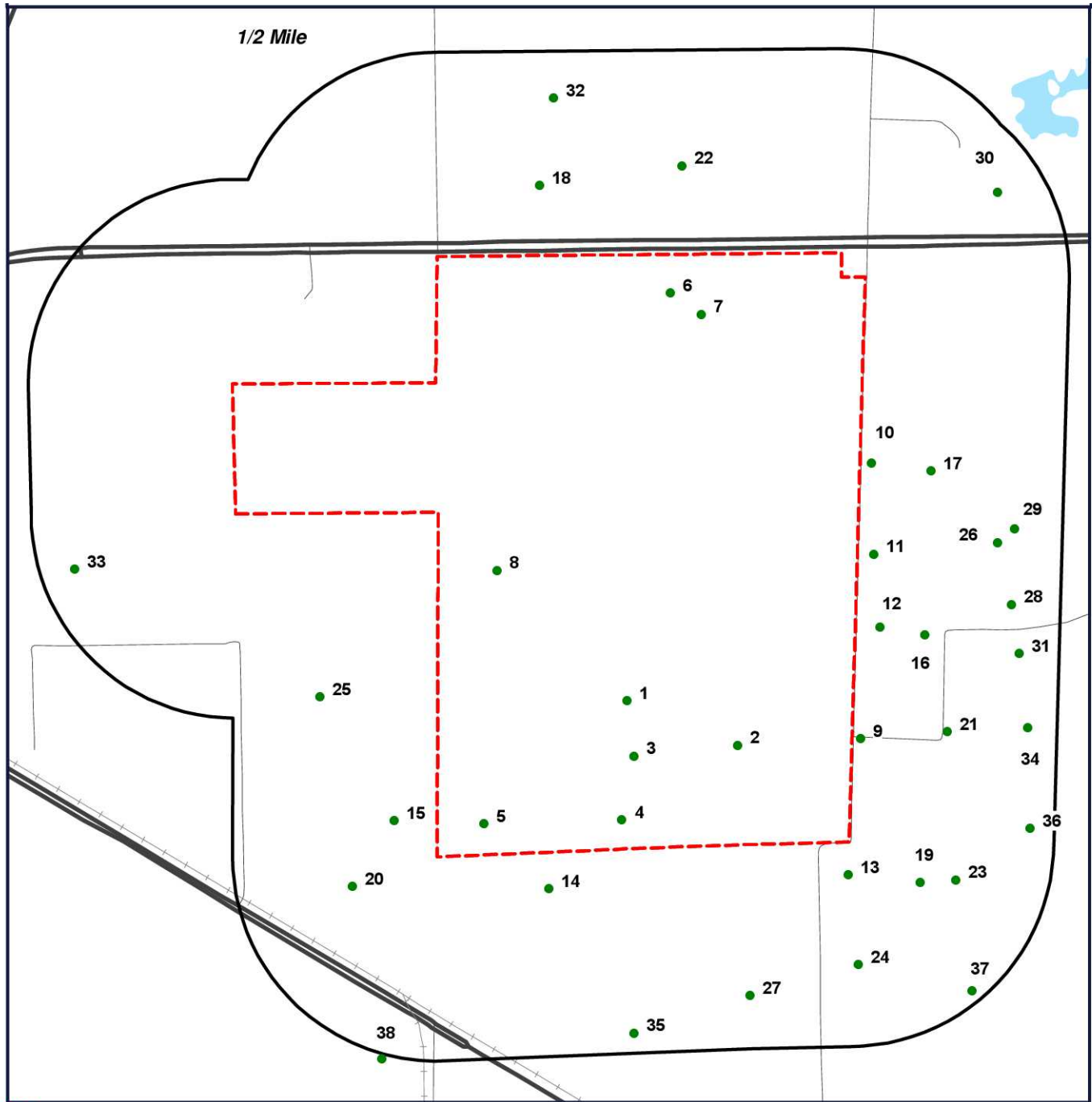
TOTAL		8	7	7	16	0	0	38
-------	--	---	---	---	----	---	---	----

NOTES:

NS = NOT SEARCHED

TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

OIL & GAS MAP



- Target Property (TP)
- Surface Location

CCREDC Blue Bay Site Phase I
ESA
State Hwy 35
Gregory, Texas
78374



0' 1000' 2000' 3000'
SCALE: 1" = 2000'

[Click here to access Satellite view](#)

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address
1	OGWELLS	37404	TP		
2	OGWELLS	37422	TP		
3	OGWELLS	37405	TP		
4	OGWELLS	37406	TP		
5	OGWELLS	37407	TP		
6	OGWELLS	37402	TP		
7	OGWELLS	37411	TP		
8	OGWELLS	37403	TP		
9	OGWELLS	37417	0.02 mi. E (106 ft.)		
10	OGWELLS	37421	0.027 mi. E (143 ft.)		
11	OGWELLS	37418	0.039 mi. E (206 ft.)		
12	OGWELLS	37413	0.06 mi. E (317 ft.)		
13	OGWELLS	37420	0.062 mi. S (327 ft.)		
14	OGWELLS	37893	0.072 mi. S (380 ft.)		
15	OGWELLS	36332	0.105 mi. W (554 ft.)		
16	OGWELLS	37414	0.17 mi. E (898 ft.)		
17	OGWELLS	37409	0.174 mi. E (919 ft.)		
18	OGWELLS	37675	0.19 mi. N (1003 ft.)		
19	OGWELLS	37678	0.191 mi. ESE (1008 ft.)		
20	OGWELLS	36572	0.213 mi. WSW (1125 ft.)		
21	OGWELLS	37416	0.231 mi. E (1220 ft.)		
22	OGWELLS	37390	0.235 mi. N (1241 ft.)		
23	OGWELLS	37408	0.271 mi. ESE (1431 ft.)		
24	OGWELLS	37679	0.283 mi. S (1494 ft.)		
25	OGWELLS	36331	0.289 mi. W (1526 ft.)		
26	OGWELLS	37419	0.341 mi. E (1800 ft.)		
27	OGWELLS	37442	0.352 mi. S (1859 ft.)		

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address
28	OGWELLS	37892	0.378 mi. E (1996 ft.)		
29	OGWELLS	1060329	0.381 mi. E (2012 ft.)		
30	OGWELLS	37391	0.396 mi. ENE (2091 ft.)		
31	OGWELLS	37415	0.401 mi. E (2117 ft.)		
32	OGWELLS	37388	0.404 mi. N (2133 ft.)		
33	OGWELLS	36328	0.411 mi. WSW (2170 ft.)		
34	OGWELLS	37676	0.427 mi. E (2255 ft.)		
35	OGWELLS	37438	0.433 mi. S (2286 ft.)		
36	OGWELLS	37423	0.44 mi. E (2323 ft.)		
37	OGWELLS	37443	0.457 mi. SE (2413 ft.)		
38	OGWELLS	36338	0.495 mi. SSW (2614 ft.)		

Oil & Gas Well Report

MAP ID	SURFACE ID	API #	WELL TYPE #	LATITUDE	LONGITUDE
1	37404	409	DRY HOLE	27.911704000	-97.241124000
2	37422	40932284	PLUGGED GAS WELL	27.910129000	-97.236714000
3	37405	40931367	DRY HOLE	27.909745000	-97.240853000
4	37406	409	DRY HOLE	27.907482000	-97.241326000
5	37407	409	DRY HOLE	27.907336000	-97.246875000
6	37402	409	DRY HOLE	27.926141000	-97.239392000
7	37411	409	GAS WELL	27.925398000	-97.238158000
8	37403	409	DRY HOLE	27.916317000	-97.246345000
9	37417	40902247	PLUGGED OIL/GAS WELL	27.910366000	-97.231759000
10	37421	40931440	DRY HOLE	27.920117000	-97.231333000
11	37418	40902257	PLUGGED OIL/GAS WELL	27.916898000	-97.231243000
12	37413	409	OIL WELL	27.914314000	-97.230978000
13	37420	40931347	PLUGGED OIL/GAS WELL	27.905536000	-97.232262000
14	37893	40931368	DRY HOLE	27.905042000	-97.244250000
15	36332	409	DRY HOLE	27.907458000	-97.250464000
16	37414	40902251	PLUGGED OIL/GAS WELL	27.914023000	-97.229188000
17	37409	409	DRY HOLE	27.919852000	-97.228944000
18	37675	40930592	GAS WELL	27.929955000	-97.244631000
19	37678	409	DRY HOLE	27.905278000	-97.229379000
20	36572	40931287	PLUGGED GAS WELL	27.905133000	-97.252120000
21	37416	40902248	PLUGGED OIL/GAS WELL	27.910612000	-97.228289000
22	37390	40930630	PLUGGED OIL WELL	27.930657000	-97.238940000
23	37408	40903981	OIL/GAS WELL	27.905357000	-97.227950000
24	37679	40904165	PLUGGED GAS WELL	27.902354000	-97.231861000
25	36331	40931299	DRY HOLE	27.911842000	-97.253456000
26	37419	40902255	PLUGGED OIL/GAS WELL	27.917300000	-97.226274000
27	37442	40903979	PLUGGED GAS WELL	27.901262000	-97.236192000
28	37892	40904291	PLUGGED OIL WELL	27.915107000	-97.225737000
29	1060329	40932642	DRY HOLE	27.917784000	-97.225606000
30	37391	409	DRY HOLE	27.929722000	-97.226262000
31	37415	409	PLUGGED OIL WELL	27.913365000	-97.225426000
32	37388	409	DRY HOLE	27.933059000	-97.244089000
33	36328	409	DRY HOLE	27.916367000	-97.263268000
34	37676	409	PLUGGED OIL WELL	27.910749000	-97.225076000
35	37438	409	DRY HOLE	27.899935000	-97.240869000
36	37423	40904154	PLUGGED OIL/GAS WELL	27.907172000	-97.224982000
37	37443	40903980	PLUGGED GAS WELL	27.901450000	-97.227291000
38	36338	409	DRY HOLE	27.899032000	-97.250967000

Environmental Records Definitions - STATE (TX)

OGWELLS

Oil and Gas Wells

VERSION DATE: 05/16/17

This oil and gas well data set is provided by the Geographic Information System of the Railroad Commission of Texas (the Commission). The data set includes oil and gas well records dating back to the early 1960's, some wells prior to the 1960's are also included with with no API and/or a historical API number in place. The Commission shall not be held liable for use of this data, which is provided as a public service for informational purposes only. Users are responsible for checking the accuracy, completeness, currency, and/or suitability of this data set themselves.

Exhibit J

Water Well Report

GeoPlus Water Well Report

[Satellite view](#)

Target Property:

**CCREDC Blue Bay Site Phase I ESA
State Hwy 35
Gregory, San Patricio County, Texas 78374**

Prepared For:

Hanson Professional Services

Order #: 100526

Job #: 219593

Project #: 18L0013

Date: 01/18/2018

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<i>Target Property Summary</i>	1
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Target Property Summary

Target Property Information

CCREDC Blue Bay Site Phase I ESA

State Hwy 35

Gregory, Texas 78374

Coordinates

Area

USGS Quadrangle

Gregory, TX

Aransas Pass, TX

Geographic Coverage Information

County/Parish: San Patricio (TX)

ZipCode(s):

Aransas Pass TX: 78336

Portland TX: 78374

Radon

* Target property is located in Radon Zone 3.

Zone 3 areas have a predicted average indoor radon screening level less than 2 pCi/L (picocuries per liter).

Database Radius Summary

FEDERAL LISTING

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
NWIS	0.5000	0	0	0	0	NS	NS	0
SUB-TOTAL		0	0	0	0	0	0	0

Database Radius Summary

STATE (TX) LISTING

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
SDRD	0.5000	0	0	0	0	NS	NS	0
TCEQ	0.5000	0	0	0	0	NS	NS	0
TWDB	0.5000	0	0	0	2	NS	NS	2
WUD	0.5000	0	0	0	0	NS	NS	0

SUB-TOTAL		0	0	0	2	0	0	2
-----------	--	---	---	---	---	---	---	---

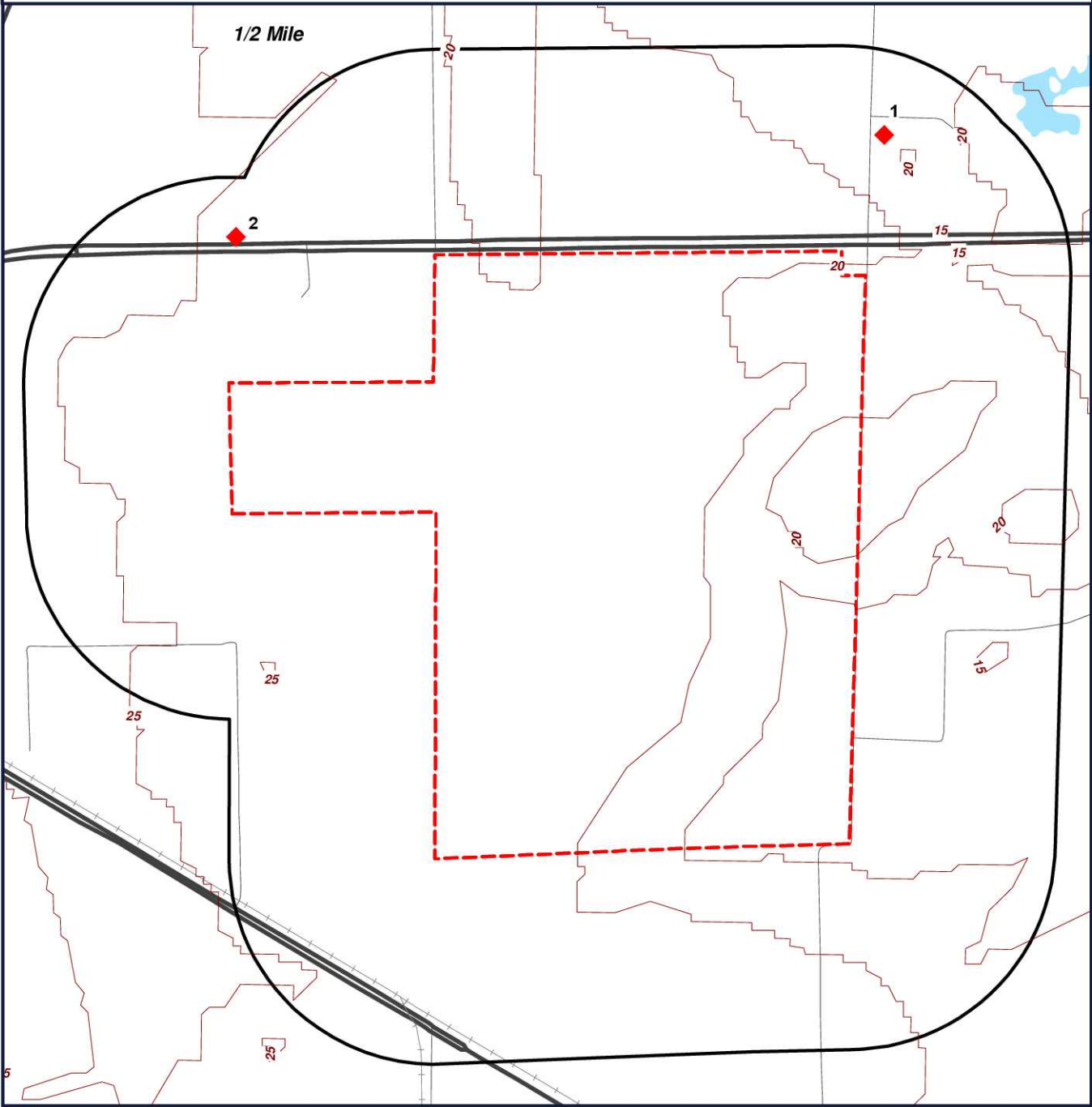
TOTAL		0	0	0	2	0	0	2
-------	--	---	---	---	---	---	---	---

NOTES:

NS = NOT SEARCHED

TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Waterwell Map



Target Property (TP)
TWDB

CCREDC Blue Bay Site Phase I
ESA
State Hwy 35
Gregory, Texas
78374

CONTOUR LINES REPRESENTED IN FEET



0' 1000' 2000' 3000'
SCALE: 1" = 2000'

[Click here to access Satellite view](#)

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
1	TWDB	83-07-401	0.3 mi. NNE (1584 ft.)	J. S. MCCAMPBELL		6
2	TWDB	83-06-601	0.353 mi. N (1864 ft.)	W. W. TOLAN		8

Texas Water Development Board Groundwater Database (TWDB)

[MAP ID# 1](#)

Distance from Property: 0.3 mi. (1,584 ft.) NNE

STATE ID: **83-07-401**

OWNER'S NAME: **J. S. MCCAMPBELL**

DATE DRILLED: **00/00/1955**

DEPTH DRILLED: **191'**

WATER USAGE: **DOMESTIC**

LONGITUDE: **-97**

LATITUDE: **28**

SOURCE: **TWDB**

[Back to Report Summary](#)

Texas Water Development Board Groundwater Database (TWDB)

[MAP ID# 2](#)

Distance from Property: 0.353 mi. (1,864 ft.) N

STATE ID: **83-06-601**

OWNER'S NAME: **W. W. TOLAN**

DATE DRILLED: **00/00/1927**

DEPTH DRILLED: **220'**

WATER USAGE: **DOMESTIC**

LONGITUDE: **-97**

LATITUDE: **28**

SOURCE: **TWDB**

TWDB (TWDB)

Page # 1 out of 4
State ID: 83-06-601

CW 1

TEXAS WATER DEVELOPMENT BOARD WELL SCHEDULE

LISSIE SAND
Aquifer Redment clay 3 (116)

Field No. WPA 283
Owner's Well No. _____

State Well No. WW 83-06-601
County SAN PATRISIO (205)

1. Location: 1/4, 1/4 Sec., Block _____, Survey _____

2. Owner: W. W. Tolon Address: _____
Tenant: _____ Address: _____
Driller: E. J. ELWOOD Address: _____

3. Elevation of _____ is 25 ft. above msl, determined by _____

4. Drilled: 19 27; Dug, Cable Tool, Rotary, _____

5. Depth: Rept. 220 ft. Meas. _____ ft.

6. Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed

7. Pump: Mfg. _____ Type 2x6
No. Stages _____, Bore Diam. _____ in., Setting _____ ft.
Column Diam. 4 1/2 in., Length Tailpipe _____ ft.

8. Motor: Fuel Gasoline Make & Model SUBM. 69 HP _____

9. Yield: Flow _____ gpm, Pump _____ gpm, Meas., Rept., Est. _____

10. Performance Test: Date _____ Length of Test _____ Made by _____
Static Level _____ ft. Pumping Level _____ ft. Drawdown _____ ft.
Production _____ gpm Specific Capacity _____ gpm/ft.

11. Water Level: 16.3 ft. reft. 6-10-1968 LED which is _____ ft. above surface.
_____ ft. reft. _____ above _____ which is _____ ft. above surface.
_____ ft. reft. _____ above _____ which is _____ ft. above surface.
_____ ft. reft. _____ above _____ which is _____ ft. above surface.

12. Use: Dom. Supp. Public Supply, Ind., Irr., Waterflooding, Observation, Not Used.

13. Quality: (Remarks on taste, odor, color, etc.) _____
Temp. 79 °F, Date sampled for analysis 5-28-69 Laboratory Health Dept.
Temp. _____ °F, Date sampled for analysis 10-8-38 Laboratory USGS
Temp. _____ °F, Date sampled for analysis _____ Laboratory _____

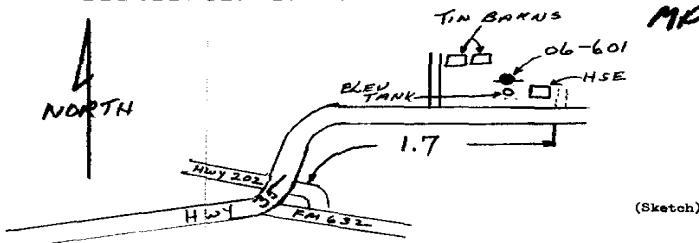
14. Other data available as circled: Driller's Log, Radioactivity Log, Electric Log, Formation Samples, Pumping Test, _____

15. Record by: W. R. Yancey Date 11-1-1966
Source of Data TWC SEK. BY RAB 3-27-63

16. Remarks: Pump has been changed. No opening to measure well. H-6-71 D.C.

Casing & Blank Pipe			
Cemented From		ft. to	
Diam. (in.)	Type	Setting, ft. from	to
3 1/2	IRON	0	220

WELL SCREEN			
Screen Openings			
Diam. (in.)	Type	Setting, ft. from to	



MD = TOP OF WPC = +1.0 FT.

WW 83-06-601

TWDB (TWDB)

Page # 2 out of 4
State ID: 83-06-601

TEXAS WATER DEVELOPMENT BOARD WATER LEVEL OBSERVATION WELL REPORT

STATE WELL NUMBER: 8306601
PREVIOUS WELL NUMBER: 283
WELL LOCATION: LAT: 27 55 50
LONG: 097 15 26
WELL USE: H S

CURRENT DATE: Oct 5 1992
YEAR RECORD BEGINS: 1938
ELEVATION OF LAND SURFACE: 25
DEPTH OF WELL: 220

DATE OF CURRENT MEASUREMENT MO DAY YEAR	CURRENT DEPTH TO WATER FROM LAND SURFACE	CHANGE IN LEVEL SINCE LAST STATIC MEASUREMENT	MEASUREMENT NUMBER	ELEVATION OF WATER LEVEL	MEASURING AGENCY	MEASUREMENT METHOD	REMARKS
10/08/1938	-16.30		01	9	12		01
06/10/1960	-16.30	0.00	01	9	12		01
03/17/1964	-14.29	2.01	01	11		1	
05/17/1964	-14.30	-0.01	01	11			
02/25/1965	-14.28	0.02	01	11	01	1	
02/25/1966	-13.91	0.37	01	11	01	1	
02/21/1967	-13.03	0.88	01	12	01	1	
02/08/1968	-14.92	-1.89	01	10	01	1	
03/19/1969	-12.76	2.16	01	12	01	1	
03/25/1970	-12.49	0.27	01	13	01	1	
04/06/1971					01		42
03/07/1972					01		42
03/13/1973					01		42

AQUIFER: GULF COAST AQUIFER
BASIN : San Antonio-Nueces Rivers
COUNTY : San Patricio

WELL CLASS AND NUMBER: HISTORICAL 8306601

TWDB (TWDB)

Page # 3 out of 4
State ID: 83-06-601

CHEMICAL WATER ANALYSIS REPORT

B.H.D.

Typewrite (Black ribbon) or Print Plainly
(~~Do not use ball point pen~~)

Texas State Department of Health Laboratories
1100 West 49th Street
Austin 5, Texas

Send report to:

Ground Water Division
Texas Water Development Board
P. O. Box 12386
Austin, Texas 78711

County SAN PATRICK
State Well No. WEB-06-601
Well No. _____
Date Collected 5-28-69

By HERSHEL D. DAVIDSON

Location 1.7 MI. FROM HWY 292 ON HWY 35 NEAR GARCOCK, TEXAS
Source (type of well) FLAT SAND Owner V.H. TOLAN
Date Drilled 1927 Depth 220 ft. WBF _____
Producing intervals _____ Water level 012.76 ft.
Sampled after pumping _____ hrs. Yield _____ GPM meas. est. Temperature 79 °F °C
Point of collection PUMP AT WELL Appearance TURBID
clear - turbid - colored
Use DON STICK Remarks _____

FOR LABORATORY USE ONLY

CHEMICAL ANALYSIS

KEY PUNCHED

Laboratory No. 124201 W Date Received JUN 5 1969 Date Reported JUN 19 1969

MG/L	ME/L	MG/L	ME/L
Silica <u>10</u>		Carbonate <u>173</u>	
Calcium <u>38</u>	<u>4.40</u>	Bicarbonate <u>357</u>	<u>5.76</u>
Magnesium <u>27</u>	<u>3.20</u>	Sulfate <u>117</u>	<u>2.44</u>
Sodium <u>1620</u>	<u>70.42</u>	Chloride <u>2500</u>	<u>70.56</u>
	<u>77.62</u>	Fluoride <u>1.1</u>	
☐ Potassium _____		Nitrate <u>20.4</u>	
☐ Manganese _____	%Na _____	pH <u>7.6</u>	Total <u>78.76</u>
☐ Boron _____	SAR _____	1/Dissolved Solids (sum) <u>4550</u>	
☐ Total Iron _____	RSC _____	Phenolphthalein Alkalinity as C asCO_3 <u>0</u>	
☐ (other) _____		Total Alkalinity as C asCO_3 <u>(5.76) 2.88</u>	
Specific Conductance (micromhos/cm3) <u>7100</u>		Total Hardness as C asCO_3 <u>(2.60) 3.20</u>	
Diluted Conductance (micromhos/cm3) <u>72 x 121</u>		Analyst _____ JUN 19 1969	
"□" items will be analyzed if checked. <u>9432</u>		Checked by _____	
Total Iron requires separate sample.			

1/ The bicarbonate reported in this analysis is converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate, and the carbonate figure is used in the computation of this sum.

TWDBE-GW-50

944. W. L. = 110 (1953)

[illegible][illegible]

Obs. Well

Environmental Records Definitions - FEDERAL

NWIS

United States Geological Survey National Water Information System

VERSION DATE: 12/14/16

This USGS National Water Information System database only includes groundwater wells. The USGS defines this well type as: A hole or shaft constructed in the earth intended to be used to locate, sample, or develop groundwater, oil, gas, or some other subsurface material. The diameter of a well is typically much smaller than the depth. Wells are also used to artificially recharge groundwater or to pressurize oil and gas production zones. Additional information about specific kinds of wells should be recorded under the secondary site types or the Use of Site field. Underground waste-disposal wells should be classified as waste-injection wells.

Environmental Records Definitions - STATE (TX)

SDRD Submitted Drillers Report Database

VERSION DATE: 11/07/17

This Texas Water Development Board database was created from the online Texas Well Report Submission and Retrieval System (A cooperative TDLR, TWDB system) that registered water-well drillers use to submit their required reports. The system was started in February 2001 and is optional for the drillers to use.

TCEQ Texas Commission on Environmental Quality Water Wells

VERSION DATE: NR

The Texas Commission on Environmental Quality (TCEQ) maintains a filing system of plotted and unnumbered water wells. Plotted water wells are filed according to the County indicated by the driller and the state well number assigned by State of Texas personnel. Given the available location information provided by the driller, personnel identify where the approximate well location should be. After well placement a state well number is assigned indicating that the well lies within a specific 2.5' section of a 7.5' quadrangle. This method allows for quicker, more refined, reference when researching a specific area. Unnumbered water wells have not been assigned a state well number. This can occur for a variety of reasons; however it does not mean the well cannot be accurately spotted. Unnumbered water well records are filed according to County and are often broken up by year or by a span of years.

TWDB Texas Water Development Board Groundwater Database

VERSION DATE: 11/07/17

The Texas Water Development Board Groundwater Database contains information for more than 123,500 sites in Texas including data on water wells, springs, oil/gas tests, water levels, and water quality. The purpose of the Board's data collection effort over the years has been to gain representative information about aquifers in the state in order to do water planning. It is very important, however, to realize that the wells in the database represent only a small percentage of the wells that actually exist in Texas. A registered water well driller is required by law to send in a report to the State for every well that is drilled. This requirement began in 1965, and we estimate that approximately 500,000 wells have been drilled in Texas since then. Of the 1,000,000 plus water wells drilled in Texas over the past 100 years, more than 130,000 have been inventoried and placed into the TWDB groundwater database. State well numbers have been assigned to these based on their location within numbered 7 1/2 minute quadrangles formed by lines of latitude and longitude. This database contains well information including location, depth, well type, owner, driller, construction and completion data.

WUD Water Utility Database

VERSION DATE: NR

The Water Utility Database is defined as a collection of data from Texas Water Districts, Public Drinking Water Systems and Water and Sewer Utilities who submit information to the TCEQ. This database is an integrated database designed and developed to replace over 160 stand alone legacy systems representing over 5 million records of the former Texas Water Commission and the Texas Department of Health.

Environmental Records Definitions - STATE (TX)

Exhibit K

Site Visit Photo Log

Photo Log of Site Visit – Blue Bay Site



1. Photo taken approximately 50 feet south of subject property facing north. Shrubland of the southeast portion of the subject property can be seen.



2. Photo taken approximately 50 feet south of subject property facing southwest. Fallow farmland can be seen to the south of the subject property. In the distance, the Occidental Chemical Corporation Ingleside Plant, the Chemours Ingleside Plant, and the San Patricio Municipal Water District treatment facility can be seen.

Photo Log of Site Visit – Blue Bay Site



3. Photo taken approximately 250 feet south of subject property facing northwest. Three abandoned aboveground storage tanks can be seen to the south of the subject property.



4. Photo taken approximately 50 feet south of subject property facing west. A facility owned by Southcross Energy can be seen to the south of the subject property.

Photo Log of Site Visit – Blue Bay Site



5. Photo taken approximately 50 feet south of subject property facing southwest. The Oxy Ingleside Station can be seen to the south of the subject property. Crude oil and LPG pipelines flow to this facility.



6. Photo taken near southeast corner of subject property facing northwest. Shrubland of the southeast portion of the subject property can be seen.

Photo Log of Site Visit – Blue Bay Site



7. Photo taken near southeast corner of subject property facing east. The property adjacent to the subject property can be seen.



8. Photo taken approximately 150 feet north of southeast corner of subject property facing west. A warning marker for a natural gas pipeline can be seen along the eastern boundary of the subject property.

Photo Log of Site Visit – Blue Bay Site



9. Photo taken approximately 270 feet north of southeast corner of subject property facing southwest. A warning marker for a natural gas pipeline can be seen along the eastern boundary of the subject property.



10. Photo taken approximately 270 feet north of southeast corner of subject property facing northeast. On the adjacent property, a warning marker for a natural gas pipeline and aboveground appurtenances for pipelines in the area can be seen.

Photo Log of Site Visit – Blue Bay Site



11. Photo taken approximately 330 feet north of southeast corner of subject property facing northeast. On the adjacent property, a warning marker for a buried communications cable can be seen.



12. Photo taken approximately 2,000 feet north of southeast corner of subject property facing west. What appears to be a pipeline warning marker can be seen on the subject property.

Photo Log of Site Visit – Blue Bay Site



13. Photo taken approximately 2,670 feet north of southeast corner of subject property facing west. A pond present along the eastern subject property boundary can be seen.



14. Photo taken approximately 2,670 feet north of southeast corner of subject property facing northeast. The property adjacent to the subject property can be seen.

Photo Log of Site Visit – Blue Bay Site



15. Photo taken approximately 2,980 feet north of southeast corner of subject property facing west. Cattle can be seen on the subject property.



16. Photo taken approximately 2,980 feet north of southeast corner of subject property facing east. Livestock pens can be seen on the property adjacent to the subject property.

Photo Log of Site Visit – Blue Bay Site



17. Photo taken approximately 4,050 feet north of southeast corner of subject property facing west. What appears to be a water storage tank can be seen on the subject property.



18. Photo taken approximately 4,050 feet north of southeast corner of subject property facing northeast. A residential property adjacent to the subject property can be seen.

Photo Log of Site Visit – Blue Bay Site



19. Photo taken approximately 2,550 feet south of northeast corner of subject property facing west. Farmland on the subject property can be seen.



20. Photo taken approximately 1,990 feet south of northeast corner of subject property facing northwest. Piles of harvested cotton can be seen.

Photo Log of Site Visit – Blue Bay Site



21. Photo taken approximately 1,990 feet south of northeast corner of subject property facing north. The Price Ranch RV Park can be seen across County Road 4343 from the subject property.



22. Photo taken approximately 1,430 feet south of northeast corner of subject property facing east. A sign for the Price Ranch RV Park can be seen.

Photo Log of Site Visit – Blue Bay Site



23. Photo taken approximately 600 feet south of northeast corner of subject property facing northwest. Two warning markers for buried communication cables can be seen on the subject property.



24. Photo taken approximately 170 feet south of northeast corner of subject property facing northwest. Laguna Crane Services can be seen to the north of the subject property.

Photo Log of Site Visit – Blue Bay Site



25. Photo taken approximately 170 feet south of northeast corner of subject property facing southwest. Farmland of the subject property can be seen.



26. Photo taken approximately 100 feet north of subject property facing south. Electric distribution and transmission lines can be seen along the boundaries of the subject property. On the right, a road leading to the Dome Motel can be seen.

Photo Log of Site Visit – Blue Bay Site



27. Photo taken near northwest corner of subject property facing east. Farmland of the subject property can be seen.



28. Photo taken near northwest corner of subject property facing southeast. Farmland of the subject property can be seen.

Photo Log of Site Visit – Blue Bay Site



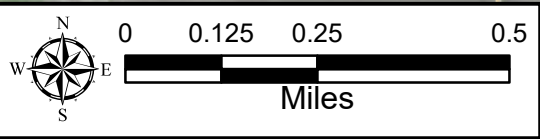
29. Photo taken approximately 1,100 feet south of northwest corner of subject property facing east. The base of an electric transmission line structure and farmland of the subject property can be seen.



30. Photo taken approximately 1,100 feet south of northwest corner of subject property facing west. The Dome Motel can be seen.

Exhibit L

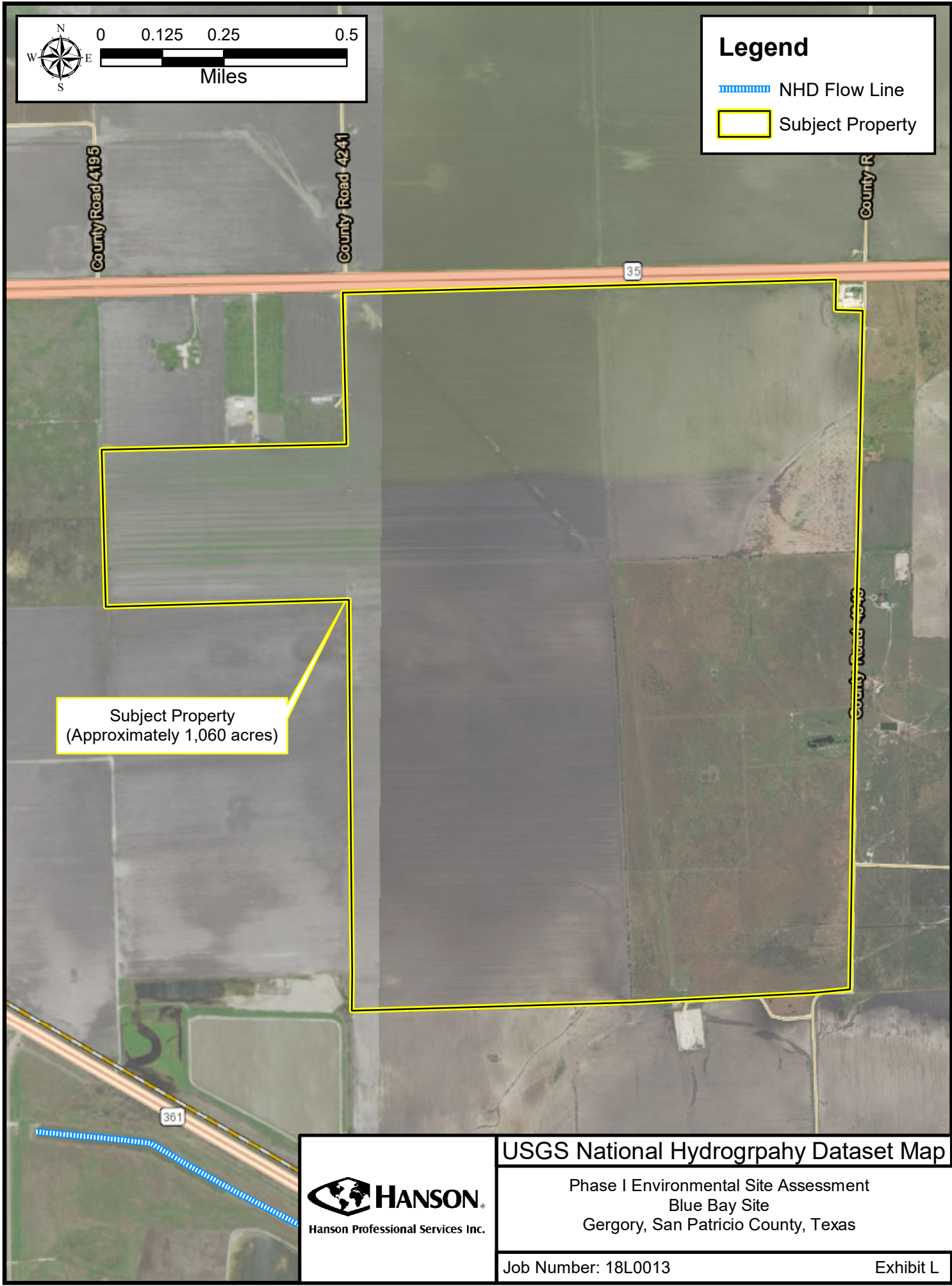
USGS National Hydrography Dataset Map



Legend

 NHD Flow Line

 Subject Property



Subject Property
(Approximately 1,060 acres)

 **HANSON**
Hanson Professional Services Inc.

USGS National Hydrography Dataset Map

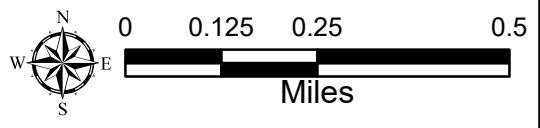
Phase I Environmental Site Assessment
Blue Bay Site
Gergory, San Patricio County, Texas

Job Number: 18L0013

Exhibit L

Exhibit M

USFWS National Wetlands Inventory Map



Legend

Subject Property

NWI

Wetland Type

- Freshwater Emergent Wetland
- Freshwater Pond
- Lake
- Riverine

Subject Property
(Approximately 1,060 acres)

PUBHx
PEM1Cx
PEM1A
PEM1/SS1A

PUBKx
L1UBKx
R2UBHx



USFWS National Wetlands Inventory Map

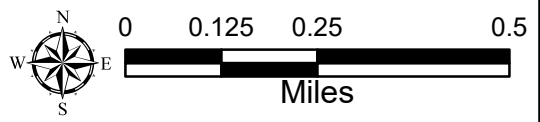
Phase I Environmental Site Assessment
Blue Bay Site
Gergory, San Patricio County, Texas

Job Number: 18L0013

Exhibit M

Exhibit N

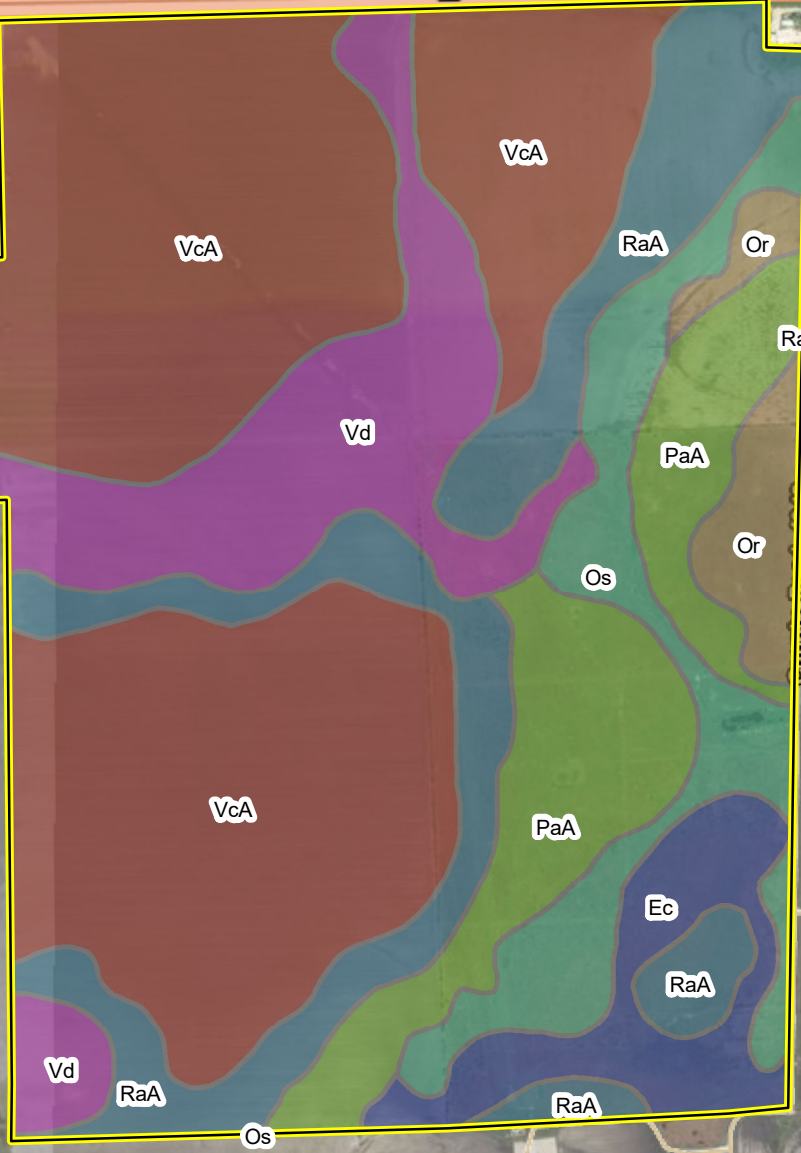
Web Soil Survey Hydric Soils Dataset Map



Legend

- Subject Property
- NRCS Soils**
- Map Unit Name (Symbol)**
- Hydric Rating**
- Banquete clay, 0 to 1 percent slopes (Ec) Hydric Rating: 5
 - Orelia fine sandy loam, 0 to 1 percent slopes (Or) Hydric Rating: 94
 - Calallen sandy clay loam, 0 to 1 percent slopes (Os) Hydric Rating: 2
 - Papalote fine sandy loam, 0 to 1 percent slopes (PaA) Hydric Rating: 5
 - Raymondville clay loam, 0 to 1 percent slopes (RaA) Hydric Rating: 5
 - Victoria clay, 0 to 1 percent slopes (VcA) Hydric Rating: 1
 - Victoria clay, depressional (Vd) Hydric Rating: 5

Subject Property
(Approximately 1,060 acres)



Web Soil Survey Hydric Soils Dataset Map

Phase I Environmental Site Assessment
Blue Bay Site
Gergory, San Patricio County, Texas

Job Number: 18L0013

Exhibit N

Exhibit O

TPWD Ecological Mapping System of Texas Map



0 0.125 0.25 0.5
Miles

Legend

Subject Property

EMST

Vegetation ID, Common Name

5207, Gulf Coast: Coastal Prairie

7002, South Texas: Clayey Live Oak Motte and Woodland

7004, South Texas: Clayey Mesquite Mixed Shrubland

7104, South Texas: Sandy Mesquite Woodland and Shrubland

9104, Native Invasive: Deciduous Woodland

9124, Native Invasive: Huisache Woodland or Shrubland

9307, Row Crops

9410, Urban High Intensity

9411, Urban Low Intensity

Subject Property
(Approximately 1,060 acres)



TPWD Ecological Mapping System of Texas Map

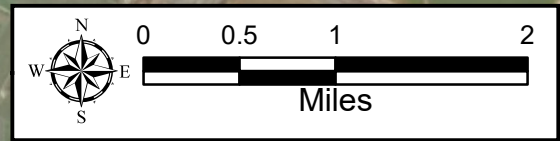
Phase I Environmental Site Assessment
Blue Bay Site
Gergory, San Patricio County, Texas

Job Number: 18L0013

Exhibit O

Exhibit P

THC Historic Markers Map



Legend

- Subject Property
- Historical Marker



Subject Property
(Approximately 1,060 acres)

	THC Historical Markers Map	
	Phase I Environmental Site Assessment Blue Bay Site Gergory, San Patricio County, Texas	
	Job Number: 18L0013	Exhibit P

Exhibit Q

Federal and State Listed Species



U.S. Fish & Wildlife Service

ECOS[ECOS](#) / [Species Reports](#) / Species By County Report

Species By County Report

The following report contains Species that are known to or are believed to occur in this county. Species with range unrefined past the state level are now excluded from this report. If you are looking for the Section 7 range (for Section 7 Consultations), please visit the [IPaC](#) application.

County: San Patricio, Texas

[Download CSV](#)Need to contact a FWS field office about a species? Follow [this link](#) to find your local FWS Office.

Group	Name	Population	Status	Lead Office	Recovery Plan	Recovery Plan Action Status	Recovery Plan Stage
Birds	Whooping crane (<i>Grus americana</i>)	Wherever found, except where listed as an experimental population	Endangered	Assistant Regional Director-Ecological Services	Whooping Crane Recovery Plan, Final Third Revision	Implementation Progress	Final Revision 3
Birds	Brown pelican (<i>Pelecanus occidentalis</i>)	except U.S. Atlantic coast, FL, AL	Recovery	Ventura Fish and Wildlife Office			
Birds	Piping Plover (<i>Charadrius melodus</i>)	[Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.	Threatened	Office of the Regional Director	Volume I: Draft Revised Recovery Plan for the Northern Great Plains Piping Plover (Charadrius melodus)	Recovery efforts in progress, but no implementation information yet to display.	Draft Revision 1
Birds	Piping Plover (<i>Charadrius melodus</i>)	[Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.	Threatened	Office of the Regional Director	Piping Plover Atlantic Coast Population Revised Recovery Plan	Implementation Progress	Final Revision 1
Birds	Red knot (<i>Calidris canutus rufa</i>)	Wherever found	Threatened	New Jersey Ecological Services Field Office			
Clams	Golden orb (<i>Quadrula aurea</i>)	Wherever found	Candidate	Texas Coastal Ecological Services Field Office			
Mammals	West Indian Manatee (<i>Trichechus manatus</i>)	Wherever found	Threatened	North Florida Ecological Services Field Office	Recovery Plan Puerto Rican Population of the West Indian (Antillean) Manatee	Implementation Progress	Final

Group	Name	Population	Status	Lead Office	Recovery Plan	Recovery Plan Action Status	Recovery Plan Stage
Mammals	West Indian Manatee (<i>Trichechus manatus</i>)	Wherever found	Threatened	North Florida Ecological Services Field Office	Florida Manatee Recovery Plan, Third Revision	Implementation Progress	Final Revision 3
Mammals	Gulf Coast jaguarundi (<i>Herpailurus (=Felis) yagouaroundi cacomitli</i>)	Wherever found	Endangered	Laguna Atascosa National Wildlife Refuge	GULF COAST JAGUARUNDI RECOVERY PLAN (Puma yagouaroundi cacomitli)	Implementation Progress	Final
Mammals	Ocelot (<i>Leopardus (=Felis) pardalis</i>)	wherever found	Endangered	Laguna Atascosa National Wildlife Refuge	Recovery Plan for the Ocelot (Leopardus pardalis) First Revision	Recovery efforts in progress, but no implementation information yet to display.	Final
Reptiles	Hawksbill sea turtle (<i>Eretmochelys imbricata</i>)	Wherever found	Endangered	North Florida Ecological Services Field Office	Recovery Plan for U.S. Pacific Populations of the Hawksbill Turtle	Implementation Progress	Final Revision 1
Reptiles	Hawksbill sea turtle (<i>Eretmochelys imbricata</i>)	Wherever found	Endangered	North Florida Ecological Services Field Office	Recovery Plan for the Hawksbill Turtle in the U.S. Caribbean, Atlantic and Gulf of Mexico	Implementation Progress	Final Revision 1
Reptiles	Leatherback sea turtle (<i>Dermochelys coriacea</i>)	Wherever found	Endangered	North Florida Ecological Services Field Office	Recovery Plan for U.S. Pacific Populations of the Leatherback Turtle	Implementation Progress	Final Revision 1
Reptiles	Leatherback sea turtle (<i>Dermochelys coriacea</i>)	Wherever found	Endangered	North Florida Ecological Services Field Office	Recovery Plan for Leatherback Turtles in the U.S. Caribbean, Atlantic, and Gulf of Mexico	Implementation Progress	Final Revision 1
Reptiles	Kemp's ridley sea turtle (<i>Lepidochelys kempii</i>)	Wherever found	Endangered	Texas Coastal Ecological Services Field Office	Bi-National Recovery Plan for the Kemp's Ridley Sea Turtle (Lepidochelys kempii) SECOND REVISION	Implementation Progress	Final Revision 2
Reptiles	Green sea turtle (<i>Chelonia mydas</i>)	North Atlantic DPS	Threatened	North Florida Ecological Services Field Office			

Group	Name	Population	Status	Lead Office	Recovery Plan	Recovery Plan Action Status	Recovery Plan Stage
Reptiles	Loggerhead sea turtle (<u><i>Caretta caretta</i></u>)	Northwest Atlantic Ocean DPS	Threatened	North Florida Ecological Services Field Office	<u>Recovery Plan for the Northwest Atlantic Population of the Loggerhead Sea Turtle (<i>Caretta caretta</i>): Second Revision</u>	<u>Implementation Progress</u>	Final Revision 2

SAN PATRICIO COUNTY

AMPHIBIANS

		Federal Status	State Status
Black-spotted newt	<i>Notophthalmus meridionalis</i>		T
can be found in wet or sometimes wet areas, such as arroyos, canals, ditches, or even shallow depressions; aestivates in the ground during dry periods; Gulf Coastal Plain south of the San Antonio River			
Sheep frog	<i>Hypopachus variolosus</i>		T
predominantly grassland and savanna; moist sites in arid areas			
South Texas siren (large form)	<i>Siren sp 1</i>		T
wet or sometimes wet areas, such as arroyos, canals, ditches, or even shallow depressions; aestivates in the ground during dry periods, but does require some moisture to remain; southern Texas south of Balcones Escarpment; breeds February-June			

BIRDS

		Federal Status	State Status
American Peregrine Falcon	<i>Falco peregrinus anatum</i>	DL	T
year-round resident and local breeder in west Texas, nests in tall cliff eyries; also, migrant across state from more northern breeding areas in US and Canada, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.			
Arctic Peregrine Falcon	<i>Falco peregrinus tundrius</i>	DL	
migrant throughout state from subspecies' far northern breeding range, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.			
Brown Pelican	<i>Pelecanus occidentalis</i>	DL	
largely coastal and near shore areas, where it roosts and nests on islands and spoil banks			
Eskimo Curlew	<i>Numenius borealis</i>	LE	E
historic; nonbreeding: grasslands, pastures, plowed fields, and less frequently, marshes and mudflats			
Henslow's Sparrow	<i>Ammodramus henslowii</i>		
wintering individuals (not flocks) found in weedy fields or cut-over areas where lots of bunch grasses occur along with vines and brambles; a key component is bare ground for running/walking			
Mountain Plover	<i>Charadrius montanus</i>		
breeding: nests on high plains or shortgrass prairie, on ground in shallow depression; nonbreeding: shortgrass plains and bare, dirt (plowed) fields; primarily insectivorous			
Northern Aplomado Falcon	<i>Falco femoralis septentrionalis</i>	LE	E
open country, especially savanna and open woodland, and sometimes in very barren areas; grassy plains and valleys with scattered mesquite, yucca, and cactus; nests in old stick nests of other bird species			

SAN PATRICIO COUNTY

BIRDS

		Federal Status	State Status
Peregrine Falcon	<i>Falco peregrinus</i>	DL	T
both subspecies migrate across the state from more northern breeding areas in US and Canada to winter along coast and farther south; subspecies (F. p. anatum) is also a resident breeder in west Texas; the two subspecies' listing statuses differ, F.p. tundrius is no longer listed in Texas; but because the subspecies are not easily distinguishable at a distance, reference is generally made only to the species level; see subspecies for habitat.			
Piping Plover	<i>Charadrius melodus</i>	LT	T
wintering migrant along the Texas Gulf Coast; beaches and bayside mud or salt flats			
Red Knot	<i>Calidris canutus rufa</i>	T	
Red knots migrate long distances in flocks northward through the contiguous United States mainly April-June, southward July-October. A small plump-bodied, short-necked shorebird that in breeding plumage, typically held from May through August, is a distinctive and unique pottery orange color. Its bill is dark, straight and, relative to other shorebirds, short-to-medium in length. After molting in late summer, this species is in a drab gray-and-white non-breeding plumage, typically held from September through April. In the non-breeding plumage, the knot might be confused with the omnipresent Sanderling. During this plumage, look for the knot's prominent pale eyebrow and whitish flanks with dark barring. The Red Knot prefers the shoreline of coast and bays and also uses mudflats during rare inland encounters. Primary prey items include coquina clam (<i>Donax</i> spp.) on beaches and dwarf surf clam (<i>Mulinia lateralis</i>) in bays, at least in the Laguna Madre. Wintering Range includes- Aransas, Brazoria, Calhoun, Cameron, Chambers, Galveston, Jefferson, Kennedy, Kleberg, Matagorda, Nueces, San Patricio, and Willacy. Habitat: Primarily seacoasts on tidal flats and beaches, herbaceous wetland, and Tidal flat/shore.			
Reddish Egret	<i>Egretta rufescens</i>		T
resident of the Texas Gulf Coast; brackish marshes and shallow salt ponds and tidal flats; nests on ground or in trees or bushes, on dry coastal islands in brushy thickets of yucca and prickly pear			
Sennett's Hooded Oriole	<i>Icterus cucullatus sennetti</i>		
often builds nests in and of Spanish moss (<i>Tillandsia unioides</i>); feeds on invertebrates, fruit, and nectar; breeding March to August			
Snowy Plover	<i>Charadrius alexandrinus</i>		
formerly an uncommon breeder in the Panhandle; potential migrant; winter along coast			
Sooty Tern	<i>Sterna fuscata</i>		T
predominately 'on the wing'; does not dive, but snatches small fish and squid with bill as it flies or hovers over water; breeding April-July			
Sprague's Pipit	<i>Anthus spragueii</i>		
only in Texas during migration and winter, mid September to early April; short to medium distance, diurnal migrant; strongly tied to native upland prairie, can be locally common in coastal grasslands, uncommon to rare further west; sensitive to patch size and avoids edges.			
Western Burrowing Owl	<i>Athene cunicularia hypugaea</i>		
open grasslands, especially prairie, plains, and savanna, sometimes in open areas such as vacant lots near human habitation or airports; nests and roosts in abandoned burrows			

SAN PATRICIO COUNTY

BIRDS

		Federal Status	State Status
Western Snowy Plover	<i>Charadrius alexandrinus nivosus</i>		
uncommon breeder in the Panhandle; potential migrant; winter along coast			
White-faced Ibis	<i>Plegadis chihi</i>		T
prefers freshwater marshes, sloughs, and irrigated rice fields, but will attend brackish and saltwater habitats; nests in marshes, in low trees, on the ground in bulrushes or reeds, or on floating mats			
White-tailed Hawk	<i>Buteo albicaudatus</i>		T
near coast on prairies, cordgrass flats, and scrub-live oak; further inland on prairies, mesquite and oak savannas, and mixed savanna-chaparral; breeding March-May			
Whooping Crane	<i>Grus americana</i>	LE	E
potential migrant via plains throughout most of state to coast; winters in coastal marshes of Aransas, Calhoun, and Refugio counties			
Wood Stork	<i>Mycteria americana</i>		T
forages in prairie ponds, flooded pastures or fields, ditches, and other shallow standing water, including salt-water; usually roosts communally in tall snags, sometimes in association with other wading birds (i.e. active heronries); breeds in Mexico and birds move into Gulf States in search of mud flats and other wetlands, even those associated with forested areas; formerly nested in Texas, but no breeding records since 1960			

FISHES

		Federal Status	State Status
American eel	<i>Anguilla rostrata</i>		
coastal waterways below reservoirs to gulf; spawns January to February in ocean, larva move to coastal waters, metamorphose, then females move into freshwater; most aquatic habitats with access to ocean, muddy bottoms, still waters, large streams, lakes; can travel overland in wet areas; males in brackish estuaries; diet varies widely, geographically, and seasonally			
Opossum pipefish	<i>Micropis brachyurus</i>		T
brooding adults found in fresh or low salinity waters and young move or are carried into more saline waters after birth; southern coastal areas			
Smalltooth sawfish	<i>Pristis pectinata</i>	LE	E
different life history stages have different patterns of habitat use; young found very close to shore in muddy and sandy bottoms, seldom descending to depths greater than 32 ft (10 m); in sheltered bays, on shallow banks, and in estuaries or river mouths; adult sawfish are encountered in various habitat types (mangrove, reef, seagrass, and coral), in varying salinity regimes and temperatures, and at various water depths, feed on a variety of fish species and crustaceans			
Texas pipefish	<i>Syngnathus affinis</i>		
Corpus Christi Bay; seagrass beds			

SAN PATRICIO COUNTY

INSECTS

Federal Status

State Status

Manfreda giant-skipper

Stallingsia maculosus

most skippers are small and stout-bodied; name derives from fast, erratic flight; at rest most skippers hold front and hind wings at different angles; skipper larvae are smooth, with the head and neck constricted; skipper larvae usually feed inside a leaf shelter and pupate in a cocoon made of leaves fastened together with silk

MAMMALS

Federal Status

State Status

Jaguarundi

Herpailurus yaguarondi

LE

E

thick brushlands, near water favored; 60 to 75 day gestation, young born sometimes twice per year in March and August, elsewhere the beginning of the rainy season and end of the dry season

Ocelot

Leopardus pardalis

LE

E

dense chaparral thickets; mesquite-thorn scrub and live oak mottes; avoids open areas; breeds and raises young June-November

Plains spotted skunk

Spilogale putorius interrupta

catholic; open fields, prairies, croplands, fence rows, farmyards, forest edges, and woodlands; prefers wooded, brushy areas and tallgrass prairie

Red wolf

Canis rufus

LE

E

extirpated; formerly known throughout eastern half of Texas in brushy and forested areas, as well as coastal prairies

Southern yellow bat

Lasiurus ega

T

associated with trees, such as palm trees (*Sabal mexicana*) in Brownsville, which provide them with daytime roosts; insectivorous; breeding in late winter

West Indian manatee

Trichechus manatus

LE

E

Gulf and bay system; opportunistic, aquatic herbivore

White-nosed coati

Nasua narica

T

woodlands, riparian corridors and canyons; most individuals in Texas probably transients from Mexico; diurnal and crepuscular; very sociable; forages on ground and in trees; omnivorous; may be susceptible to hunting, trapping, and pet trade

MOLLUSKS

Federal Status

State Status

Golden orb

Quadrula aurea

C

T

sand and gravel in some locations and mud at others; found in lentic and lotic; Guadalupe, San Antonio, Lower San Marcos, and Nueces River basins

SAN PATRICIO COUNTY

REPTILES

		Federal Status	State Status
Atlantic hawksbill sea turtle	<i>Eretmochelys imbricata</i>	LE	E
Gulf and bay system, warm shallow waters especially in rocky marine environments, such as coral reefs and jetties, juveniles found in floating mats of sea plants; feed on sponges, jellyfish, sea urchins, molluscs, and crustaceans, nests April through November			
Green sea turtle	<i>Chelonia mydas</i>	LT	T
Gulf and bay system; shallow water seagrass beds, open water between feeding and nesting areas, barrier island beaches; adults are herbivorous feeding on sea grass and seaweed; juveniles are omnivorous feeding initially on marine invertebrates, then increasingly on sea grasses and seaweeds; nesting behavior extends from March to October, with peak activity in May and June			
Kemp's Ridley sea turtle	<i>Lepidochelys kempii</i>	LE	E
Gulf and bay system, adults stay within the shallow waters of the Gulf of Mexico; feed primarily on crabs, but also snails, clams, other crustaceans and plants, juveniles feed on sargassum and its associated fauna; nests April through August			
Leatherback sea turtle	<i>Dermochelys coriacea</i>	LE	E
Gulf and bay systems, and widest ranging open water reptile; omnivorous, shows a preference for jellyfish; in the US portion of their western Atlantic nesting territories, nesting season ranges from March to August			
Loggerhead sea turtle	<i>Caretta caretta</i>	LT	T
Gulf and bay system primarily for juveniles, adults are most pelagic of the sea turtles; omnivorous, shows a preference for mollusks, crustaceans, and coral; nests from April through November			
Spot-tailed earless lizard	<i>Holbrookia lacerata</i>		
central and southern Texas and adjacent Mexico; moderately open prairie-brushland; fairly flat areas free of vegetation or other obstructions, including disturbed areas; eats small invertebrates; eggs laid underground			
Texas diamondback terrapin	<i>Malaclemys terrapin littoralis</i>		
coastal marshes, tidal flats, coves, estuaries, and lagoons behind barrier beaches; brackish and salt water; burrows into mud when inactive; may venture into lowlands at high tide			
Texas horned lizard	<i>Phrynosoma cornutum</i>		T
open, arid and semi-arid regions with sparse vegetation, including grass, cactus, scattered brush or scrubby trees; soil may vary in texture from sandy to rocky; burrows into soil, enters rodent burrows, or hides under rock when inactive; breeds March-September			
Texas indigo snake	<i>Drymarchon melanurus erebennus</i>		T
Texas south of the Guadalupe River and Balcones Escarpment; thornbush-chaparral woodlands of south Texas, in particular dense riparian corridors; can do well in suburban and irrigated croplands if not molested or indirectly poisoned; requires moist microhabitats, such as rodent burrows, for shelter			
Texas scarlet snake	<i>Cemophora coccinea lineri</i>		T
mixed hardwood scrub on sandy soils; feeds on reptile eggs; semi-fossorial; active April-September			

SAN PATRICIO COUNTY

REPTILES

		Federal Status	State Status
Texas tortoise	<i>Gopherus berlandieri</i>		T
open brush with a grass understory is preferred; open grass and bare ground are avoided; when inactive occupies shallow depressions at base of bush or cactus, sometimes in underground burrows or under objects; longevity greater than 50 years; active March-November; breeds April-November			
Timber rattlesnake	<i>Crotalus horridus</i>		T
swamps, floodplains, upland pine and deciduous woodlands, riparian zones, abandoned farmland; limestone bluffs, sandy soil or black clay; prefers dense ground cover, i.e. grapevines or palmetto			

PLANTS

		Federal Status	State Status
Arrowleaf milkvine	<i>Matelea sagittifolia</i>		
GLOBAL RANK: G3 ; Most consistently encountered in thornscrub in South Texas; Perennial; Flowering March-July; Fruiting April-July & Dec?			
Coastal gay-feather	<i>Liatris bracteata</i>		
Texas endemic; coastal prairie grasslands of various types, from salty prairie on low-lying somewhat saline clay loams to upland prairie on nonsaline clayey to sandy loams; flowering in fall			
Drummond's rushpea	<i>Hoffmannseggia drummondii</i>		
GLOBAL RANK: G4; Open areas on sandy clay; Perennial			
Elmendorf's onion	<i>Allium elmendorffii</i>		
Texas endemic; grassland openings in oak woodlands on deep, loose, well-drained sands; in Coastal Bend, on Pleistocene barrier island ridges and Holocene Sand Sheet that support live oak woodlands; to the north it occurs in post oak-black hickory-live oak woodlands over Queen City and similar Eocene formations; one anomalous specimen found on Llano Uplift in wet pockets of granitic loam; Perennial; Flowering March-April, May			
Indianola beakrush	<i>Rhynchospora indianolensis</i>		
GLOBAL RANK: G3Q; Locally abundant in cattle pastures in some areas (at least during wet years), possibly becoming a management problem in such sites; Perennial; Flowering/Fruiting April-Nov			
Large selenia	<i>Selenia grandis</i>		
GLOBAL RANK: G4; Occurs in seasonally wet clayey soils in open areas; Annual; Flowering Jan-April; Fruiting Feb-April			
Low spurge	<i>Euphorbia peplidion</i>		
GLOBAL RANK: G3; Occurs in a variety of vernal-moist situations in a number of natural regions; Annual; Flowering Feb-April; Fruiting March-April			
Net-leaf bundleflower	<i>Desmanthus reticulatus</i>		
GLOBAL RANK: G3; Mostly on clay prairies of the coastal plain of central and south Texas; Perennial; Flowering April-July; Fruiting April-Oct			

SAN PATRICIO COUNTY

PLANTS

Federal Status

State Status

Plains gumweed

Grindelia oolepis

coastal prairies on heavy clay (blackland) soils, often in depressional areas, sometimes persisting in areas where management (mowing) may maintain or mimic natural prairie disturbance regimes; 'crawfish lands'; on nearly level Victoria clay, Edroy clay, claypan, possibly Greta within Orelia fine sandy loam over the Beaumont Formation, and Harlingen clay; roadsides, railroad rights-of-ways, vacant lots in urban areas, cemeteries; flowering April-December

Refugio rain-lily

Zephyranthes refugiensis

Occurs on deep heavy black clay soils or sandy loams in swales or drainages on herbaceous grasslands or shrublands on level to rolling landscapes underlain by the Lissie Formation.

Sand Brazos mint

Brazoria arenaria

GLOBAL RANK: G3; Sandy areas in South Texas; Annual; Flowering/Fruiting March-April

South Texas spikesedge

Eleocharis austrotexana

GLOBAL RANK: G3; Occurring in miscellaneous wetlands at scattered locations on the coastal plain; Perennial; Flowering/Fruiting Sept

Texas peachbush

Prunus texana

GLOBAL RANK: G3; Occurs at scattered sites in various well drained sandy situations; deep sand, plains and sand hills, grasslands, oak woods, 0-200 m elevation; Perennial; Flowering Feb-Mar; Fruiting Apr-Jun

Texas stonecrop

Lenophyllum texanum

GLOBAL RANK: G3; Found in shrublands on clay dunes (lomas) at the mouth of the Rio Grande and on xeric calcareous rock outcrops at scattered inland sites; Perennial; Flowering/Fruiting Nov-Feb

Threeflower broomweed

Thurovia triflora

Texas endemic; near coast in sparse, low vegetation on a veneer of light colored silt or fine sand over saline clay along drier upper margins of ecotone between between salty prairies and tidal flats; further inland associated with vegetated slick spots on prairie mima mounds; flowering September-November

Tree dodder

Cuscuta exaltata

GLOBAL RANK: G3; Parasitic on various *Quercus*, *Juglans*, *Rhus*, *Vitis*, *Ulmus*, and *Diospyros* species as well as *Acacia berlandieri* and other woody plants; Annual; Flowering May-Oct; Fruiting July-Oct

Velvet spurge

Euphorbia innocua

GLOBAL RANK: G3; Open or brushy areas on coastal sands and the South Texas Sand Sheet; Perennial; Flowering Sept-April; Fruiting Nov-July

Welder machaeranthera

Psilactis heterocarpa

Texas endemic; grasslands , varying from midgrass coastal prairies, and open mesquite-huisache woodlands on nearly level, gray to dark gray clayey to silty soils; known locations mapped on Victoria clay, Edroy clay, Dacosta sandy clay loam over Beaumont and Lissie formations; flowering September-November

Wright's trichocoronis

Trichocoronis wrightii var. *wrightii*

SAN PATRICIO COUNTY

PLANTS

Federal Status State Status

GLOBAL RANK: G4T3; Most records from Texas are historical, perhaps indicating a decline as a result of alteration of wetland habitats; Annual; Flowering Feb-Oct; Fruiting Feb-Sept