



October 2024
Cedar Port Navigation District Channel Deepening Project, Baytown, Texas



Appendix G: Hazardous, Toxic, and Radioactive Waste Assessment

Prepared for Cedar Port Navigation and Improvement District

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Prepared for

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ABBREVIATIONS

AST	aboveground storage tank
ASTM	American Society for Testing and Materials
BCC	Barbours Cut Channel
BHC	benzenehexachloride or hexachlorocyclohexane (HCH)
BSC	Bayport Ship Channel
BUG	Beneficial Use Group
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CFR	<i>Code of Federal Regulations</i>
CPC	Cedar Port Channel
CPNID	Cedar Port Navigation and Improvement District
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
DO	dissolved oxygen
EIS	Environmental Impact Statement
EPA	U.S. Environmental Protection Agency
ERL	Effects Range – Low
ER-M	Effects Range Median
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
FS	Feasibility Study
ft	foot
FUDS	Formerly Used Defense Site
g/L	gram per liter
GPS	Global Positioning System
GS	grain size
HpCDD	heptachlorodibenzo-p-dioxin
HpCDF	heptachlorodibenzofuran
HxCDD	hexachlorodibenzo-p-dioxin
HxCDF	hexachlorodibenzo-p-dioxin
HDPE	high-density polyethylene
HSC	Houstin Ship Channel
HTRW	Hazardous, Toxic, and Radioactive Waste
IC	Institutional Controls
ICT	Interagency Coordination Team

IRF	Integrated Feasibility Report
J	estimated value
µg/kg	microgram per kilogram
mg/kg	milligram per kilogram
mg/L	milligram per liter
MLLW	mean lower low water
MLT	mean low tide
mS/cm	millisiemen per centimeter
mV	millivolt
N	normal environmental sample
N/A	not applicable
NEPA	National Environmental Policy Act
NFRAP	No Further Remedial Action Planned
ng/kg	nanogram per kilogram
NOAA	National Oceanic and Atmospheric Administration
NPL	National Priorities List
NRCS	Natural Resources Conservation Service
NWDLS	North Water District Laboratory Services
OCDD	octachlorodibenzodioxin
OCDF	octachlorodibenzofuran
ODMDS	Offshore Dredged Material Disposal Site
ORP	oxidation reduction potential
PA	Placement Area
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PCL	Protective Concentration Levels
PeCDD	pentachlorodibenzo-P-dioxin
PeCDF	pentachlorodibenzofuran
ppt	part per thousand
R	Rejected
RCRA	Resource Conservation and Recovery Act
REC	recognized environmental condition
SAP	Sampling and Analysis Plan
SAR	Sampling and Analysis Report
SE	sediment matrix
SEMS	Superfund Enterprise Management System
SVOC	semivolatile organic compound

TCDD	tetrachlorodibenzo-p-dioxin
TCDF	tetrachlorodibenzofuran
TCEQ	Texas Commission on Environmental Quality
TDL	target detection limit
TDS	total dissolved solid
TOC	total organic carbon
TPH	total petroleum hydrocarbon
TRRP	Texas Risk Reduction Program
TS	total solid
TSD	treatment, storage, and/or disposal
TSWQS	Texas State Water Quality Standards
U	Compound analyzed for, but not detected above detection limit
UJ	Compound analyzed for, but not detected above estimated detection limit
USACE	U.S. Army Corps of Engineers
USC	<i>United States Code</i>
USEPA	U.S. Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compounds
W	water
WRDA	Water Resources Development Act
WMA	Wildlife Management Area
YSI	Yellow Springs Instruments

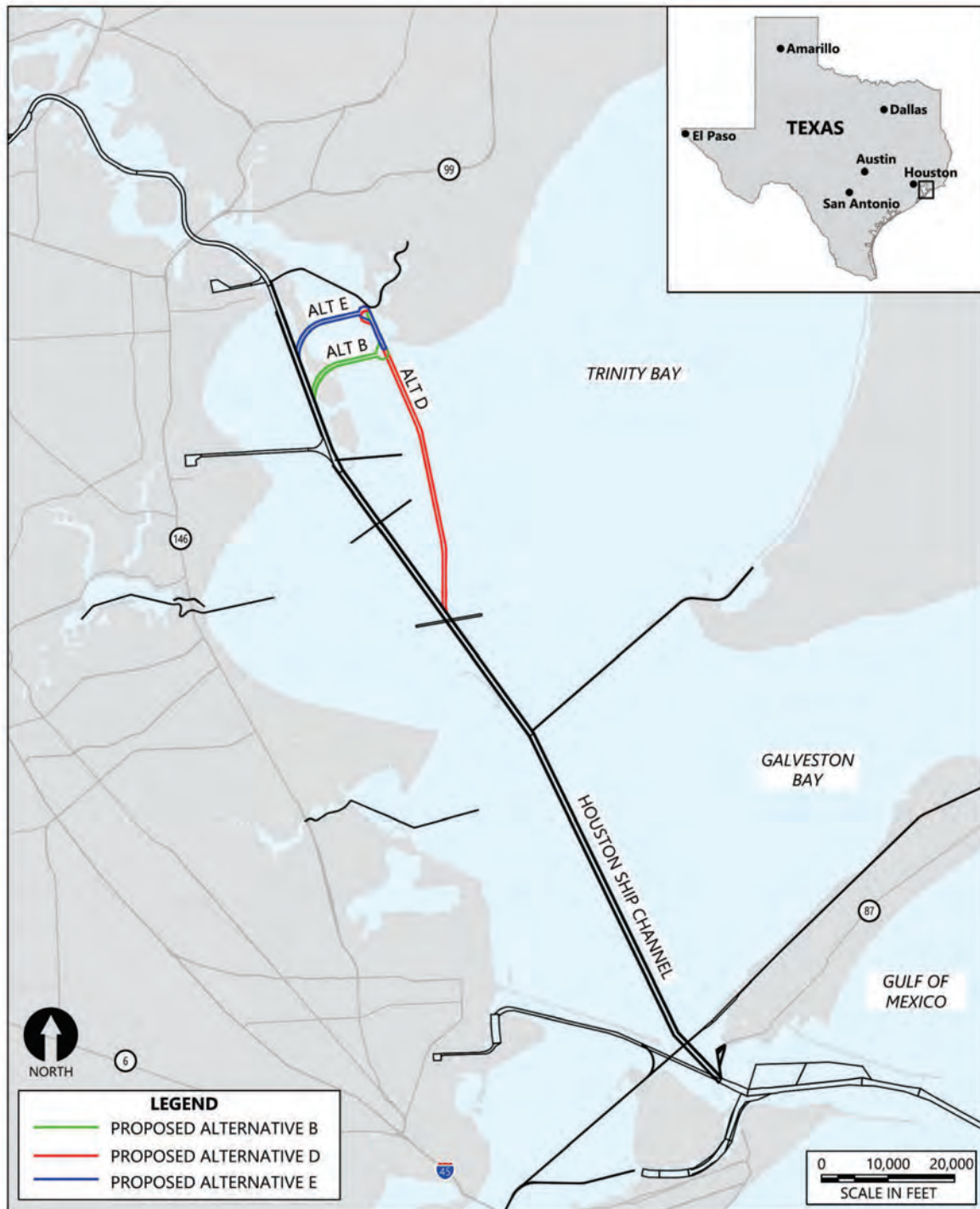
1 Introduction

1.1 Scope of Work and Purpose

Pursuant to the National Environmental Policy Act of 1969 (NEPA), as amended, the Cedar Point Navigation and Improvement District (CPNID), as the non-federal sponsor (NFS) under authority of the Water Resources Development Act (WRDA) of 1986 as amended (33 *United States Code* [USC] 2231), has prepared a draft Integrated Feasibility Study/Environmental Impact Statement (FS/EIS) for the Cedar Point Navigation and Improvement District Channel Deepening Project (the project).

The draft Integrated FS/EIS evaluates the feasibility of providing a deep-draft connection between the Houston Ship Channel (HSC) and a planned deep-draft terminal at Cedar Point Industrial Park to enhance efficient, safe, and reliable transportation of goods to the nation. The study area includes the northern shorelines of Galveston Bay and Trinity Bay near Baytown, Texas; the Cedar Bayou Navigation Channel; and the HSC south of the Fred Hartman Bridge between Baytown and LaPorte. The study area is in portions of the CPNID, the Port of Houston, and the Chambers-Liberty Counties Navigation District (Figure 1).

Figure 1
Project Vicinity



As a water resources development study being completed by the NFS seeking to modify a federal navigable water project of the United States, the study effort is subject to the requirements of federal and state laws and to the U.S. Army Corps of Engineers (USACE) study process and policies. Federal interest in the project also requires compliance with federal environmental laws, including NEPA, to evaluate the environmental effects of the project and assess an array of reasonable alternatives. The FS followed the outline in USACE *Engineer Regulation (ER) 1105-2-100 Appendix G, Amendment 1*, and includes an integrated EIS.

This Hazardous, Toxic, and Radioactive Waste (HTRW) Assessment identifies potential HTRW impacts related to the potential project. The study area includes the northern shorelines of Galveston Bay and Trinity Bay near Baytown, the Cedar Bayou Navigation Channel, and the HSC south of the Fred Hartman Bridge. This assessment was prepared by Anchor QEA in accordance with requirements and guidance found in American Society for Testing and Materials International (ASTM) E1527-13 and ER 1165-2-132, *HTRW Guidance for Civil Works Projects*. The effort included a records review, site reconnaissance, and interviews in addition to a feasibility-level testing program.

1.2 Limitations and Exceptions of Assessment

The purpose of this report is to provide a feasibility-level evaluation of the project's HTRW conditions consistent with requirements and guidance provided by ASTM E1527-13 and ER 1165-2-132, *HTRW Guidance for Civil Works Projects*. ASTM E1527-13 acknowledges, "No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property." This report is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property, and this practice recognizes reasonable limits of time and cost. Furthermore, ASTM E1527-13 states, "There is a point at which the cost of information obtained or the time required to gather it outweighs the usefulness of the information and, in fact, may be a material detriment to the orderly completion of transactions."

This HTRW Assessment contains the results of reconnaissance and sampling activities conducted in August 2023 and April 2024 and a review of property, government, and historical records. Information used to complete the Environmental Site Assessment (ESA) was reasonably ascertainable and visually and physically observable. The ESA also included sediment sampling and analyses to assess contamination at the site.

1.3 User Responsibilities

According to Section 6 of ASTM E1527-13, it is the responsibility of the user of a Phase I ESA to assist in the identification of potential recognized environmental conditions and includes the following:

- A review of reasonably ascertainable land title records and liens that might be recorded against the property. This might include environmental liens or activity and use limitations (deed recordation and deed restrictions). Anchor QEA has not been notified of any such liens or restrictions. Anchor QEA's scope of work did not include a complete review of title information, and no chain-of-title information was provided for review.
- Communication to the environmental professional for any specialized knowledge or experience, or other information that might be material to the identification of recognized environmental conditions. Specialized knowledge or experience communicated to Anchor QEA with the respect to this ESA included previous environmental reports. The previous environmental reports obtained by Anchor QEA are listed in Section 3.
- Consideration of the purchase price to the fair market value of the subject property, assuming the subject property has not been contaminated through past usage. No information about the purchase price or fair market value was provided to Anchor QEA.

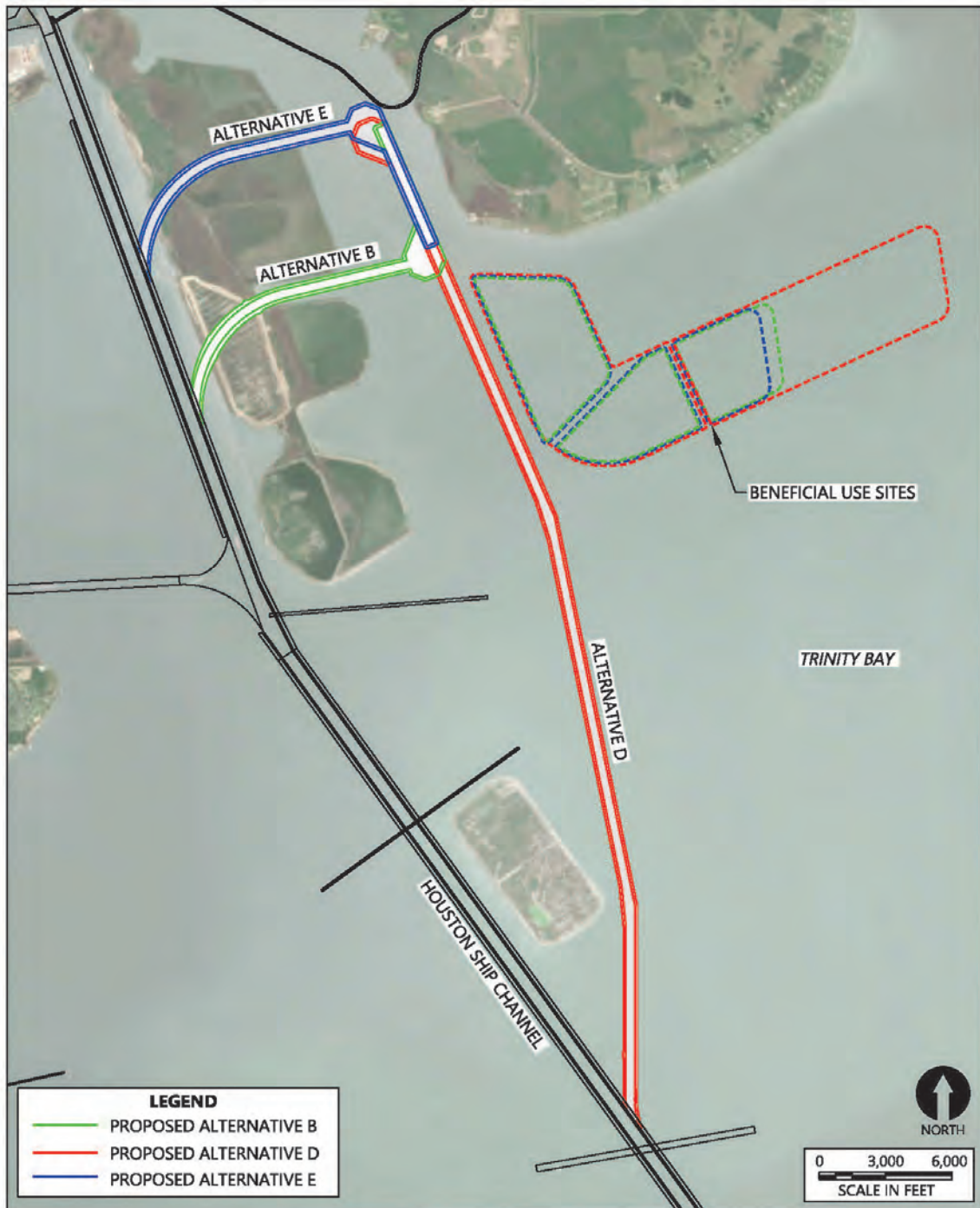
2 Property Information and Project Area Description

2.1 Property Description, Property Uses, and Adjoining Properties

The 50-mile-long HSC is predominantly -46.5 feet deep for approximately 39 miles of its length from Bolivar Roads near Galveston Island on its west and the Bolivar Peninsula on its east to Boggy Bayou. The HSC in Galveston Bay was dredged from the shallow bay bottom, which was typically -8.5 to -9.5 feet deep, and today is a deep channel surrounded by a wide expanse of shallow bay.

Three alternative routes were carried forward to detailed analysis for extending the HSC in Galveston Bay (Figure 2). Although the routes are predominantly in the HSC, they do pass over land at the Blue Water Atoll, and two of the alternatives cross Atkinson Island.

Figure 2
Alternative Routes



2.1.1 *Alternative B*

Alternative B runs parallel to the HSC along the east side of Atkinson Island before cutting west across the southern portion of the island when it nears Cedar Point to its east and is about in line with Bayside Drive. Alternative B intersects through Placement Area (PA) 15. This alternative connects with the HSC south of the Barbours Cut Channel (BCC) and north of the Bayport Ship Channel (BSC).

2.1.2 *Alternative D*

Alternative D diverges from the HSC near Smith Point and runs parallel to the HSC along the eastern side of Blue Water Atoll and Atkinson Island. The alternative is completely within the shallow Galveston Bay.

2.1.3 *Alternative E*

Alternative E runs parallel to the HSC along the east side of Atkinson Island in shallow Galveston Bay and cuts across the northern portion of the island in the westward direction through the Atkinson Island Beneficial Use Group (BUG) Marsh Cells, south of the Atkinson Island Wildlife Management Area (WMA). The Atkinson Island WMA is avoided by Alternative E. The route turns west through Atkinson Island south of Shell Point, opposite Cedar Bayou, about in line with Atlantic Pipeline Road to the east. The alternative connects with the HSC south of the BCC and north of the BSC.

2.2 **Project Area Description**

The USACE released the *Houston Ship Channel Expansion Channel Improvement Project, Harris, Chambers, and Galveston Counties, Texas: Final Integrated Feasibility Report and Environmental Impact Statement* in 2020 (USACE 2020). Appendix G of USACE (2020), incorporated by reference, discusses the project area in greater detail and includes background information on climate; topography, soils, geology, and groundwater; oceanography; water and sediment quality; and energy and mineral resources.

The project area, including all three alternative routes, is in the southeast Texas counties of Chambers, Harris, and Galveston. Two of the four proposed alternatives pass over land in Chambers and Harris counties. Chambers County is mostly agriculture, open water, and wetlands. Harris County is mostly developed and includes agriculture, open-space developments, forests, wetlands, grasslands, and open water. Although most of Galveston County is open water, the county also has a mix of agriculture and development (Galveston Bay Estuary Program 2023).

All the alternatives are in Galveston Bay, an estuary where freshwater mixes with the saltwater of the Gulf of Mexico. The surface area of Galveston Bay is approximately 600 square miles. Galveston Bay is characterized by generally shallow water, generally ranging from -5 to -12 feet deep. Throughout

the bay system are dredged navigation channels with permitted or authorized Mean Lower Low Water (MLLW) depths ranging from –13.5 to –46.5 feet (–12 to –45 feet Mean Low Tide [MLT]) that, with advanced maintenance and allowable over depths, have maximum depths ranging between –14.5 and –50.5 feet MLLW (–13 to –49 feet MLT). Galveston Bay consists of several subsystems: Trinity Bay, East Bay, San Jacinto Bay, upper Galveston Bay, and West Bay.

The climate of the Greater Houston area is classified as humid subtropical. Temperatures range on average from a low of 43°F in January to a high of 95°F in August, and the area receives an average of 50 inches of precipitation each year (Galveston Bay Estuary Program 2023). The prevailing wind in Galveston Bay is from the southeast. The Greater Houston area and the Galveston Bay region in general are susceptible to tropical cyclones during hurricane season (June through November). Storm tides recorded near the City of Galveston have ranged from 6.29 to 15.69 feet above MLLW (5.7 to 15.1 feet above mean sea level [MSL]).

Ninety percent of the project area is open water. The land adjacent to the general project area is on the Gulf Coastal Plain of Texas and relatively flat. A review of U.S. Geological Survey topographic maps shows elevations near the project range from sea level in Galveston Bay to approximately 30 feet on the surrounding lands.

The Natural Resources Conservation Service (NRCS) soil survey classifies the soils adjacent to the project area in Chambers and Galveston counties as “Water” (W) because the land is submerged (NRCS 2023). Galveston Bay was formed by some of the same geological processes and events as the adjacent coast; therefore, some of the same formations, most importantly Beaumont Clay, form the bottom of Galveston Bay.

The geology of the project area dates from the Quaternary Period, which began 2.58 million years ago. The geology of the mainland adjacent to the proposed project dates from the same period and is mapped as Beaumont Formation, the youngest formation of the Pleistocene epoch which lasted from about 2.58 million to 11,700 years ago. The Beaumont Formation is primarily fluvial and deltaic in origin, but some small areas might have originated as coastal marsh and lagoonal deposits. In the project area, the Beaumont Formation is predominantly clay and mud of low permeability and high water-holding capacity and compressibility. It exhibits high to very high shrink-swell potential, poor drainage, low shear strength, and high plasticity. The topmost sediments of the bay bottom in the project area are primarily the result of deposition from modern fluvial and coastal erosion processes and sediment transport from currents and tides. Dredging of oyster shells for road construction in the twentieth century created voids eventually filled by this deposition. The result is deeper pockets of unconsolidated sediment in some parts of the bay bottom in the general project area and shallower unconsolidated sediment over the stiffer the Beaumont material in other areas.

The Gulf Coast Aquifer is the only major aquifer in the project area; no minor aquifers are there. The Gulf Coast Aquifer consists of the Chicot, Evangeline, and Jasper aquifers, which are composed of discontinuous sand, silt, clay, and gravel beds (Texas Water Development Board, 2023). Groundwater withdrawals over the years in Chambers, Harris, and Galveston counties have led to land subsidence. But mandatory reductions in groundwater withdrawal since 1975 have resulted in the gradual recovery of aquifer levels by 80 to 200 feet and the curtailment of subsidence (Kasmarek et al. 2016). Extensometers closest to the project area show subsidence generally leveling off by 1990, except for an abrupt short-term increase between 2010 and 2013 associated with the 2010 to 2011 drought (Kasmarek et al. 2016).

2.3 Current and Historical Land Use

The study area is in the highly urbanized Houston metropolitan region. The in-water study area is bounded by a variety of land uses, including the Port of Houston to the north, the Cedar Port Industrial Park to the east, wildlife management island areas in the bay, and the communities of Baytown to the north, Oceanway and Beach City to the east, and La Porte to the west. The HSC is the western limit of all the alternative routes.

2.4 Current Use of Adjoining Properties

All three alternative routes for the extension of the HSC are in Galveston Bay southeast of Houston, Texas. Although the routes are predominantly in the bay, they do pass over Blue Water Atoll, and two of the alternatives would cross Atkinson Island.

As noted in Section 2.1, the HSC is a 50-mile-long navigation channel predominantly –46.5 feet deep for approximately 39 miles from Bolivar Roads near Galveston Island and the Bolivar Peninsula to Boggy Bayou. The HSC in Galveston Bay was dredged in shallow sediments typically –8.5 to –9.5 feet deep, and today the deep channel is surrounded by a wide expanse of shallow bay. The HSC flows from its upstream terminus at the Turning Basin approximately 4 miles east of downtown Houston to its downstream terminus at the gateway to the Gulf of Mexico between Galveston Island and the Bolivar Peninsula. The headwaters of the original watercourse for the HSC, Buffalo Bayou, are 30 miles west of Houston. The dredged material resulting from the deepening and widening that was conducted to create the HSC was used to form marsh islands and other in-water dredged material PAs.

The Port of Houston is the busiest in the United States in terms of total tonnage handled (DOT 2024). The HSC is one of the world's busiest waterways, moving ocean-going vessels between Houston-area terminals and the Gulf of Mexico and handling inland barge traffic as well. Major products, including petrochemicals and Midwest grain, and other cargo are transported in bulk via the HSC. Public and private terminals and berths are dispersed along Buffalo Bayou and Galveston Bay. Among the most notable public terminals are the Turning Basin, Barbour's Cut, and Bayport.

Notable private docks include the ExxonMobil Baytown Complex and the Deer Park Complex. The project to extend and maintain the HSC aims to increase its capacity to handle cargo and larger vessels in order to promote economic growth and operation safety and to reduce transportation-related emissions.

2.4.1 Alternative B

Alternative B parallels the HSC along the east side of Atkinson Island before turning west near Cedar Point, about in line with Bayside Drive, to cross the southern portion of the Island. Alternative B intersects PA 15 and connects with the HSC south of the BCC and north of the BSC.

The 40-foot-deep by 300-foot-wide by 4-mile-long BSC extends from the HSC to the Bayport Turning Basin. The federal government funds maintenance dredging for the channel's users, including local industries and the Port of Houston Authority Terminal Facility.

The flare of the BSC marks the entrance to the Bayport Terminal and its facilities. This high-shoal area requires regular dredging to maintain depth at the high-volume container terminal, which has the capacity to handle more than 2.3 million twenty-foot equivalent units.

2.4.2 Alternative D

The southernmost terminus of Alternative D diverges from the HSC near Smith Point and runs parallel to the HSC along the east side of Brother Island and Atkinson Island. The alternative is completely in Galveston Bay.

Alternative D sits at the nexus of Trinity Bay and Galveston Bay, east of Blue Water Atoll and west of Smith Point peninsula. Trinity Bay is the northeast portion of Galveston Bay and is bordered by Chambers and Harris counties. The Trinity Basin contributes nearly half the total bay system inflow for the Galveston Bay complex from marshes and prairie. Brother Island is a small Island in Galveston Bay. It has Brother Island Beach at its north shore, Blue Water Atoll Park in its center, and Jade Beach at its south shore. Smith Point is an unincorporated community in Chambers County comprising residential and recreational development.

2.4.3 Alternative E

Alternative E parallels the HSC along the east side of Atkinson Island before turning west to cut across the northern portion of the island through the Atkinson Island BUG Marsh Cells M3 and M4. The route turns west south of Shell Point, opposite Cedar Bayou, about in line with Atlantic Pipeline Road. This alternative connects with the HSC south of the BCC and north of the BSC.

3 Records Review

This section summarizes the historical records and sources reviewed for this site assessment.

3.1 Standard Historical Resources

Table 1 lists the standard historical sources reviewed for this project. A commercial vendor of environmental database searches called Environmental Data Resources, Inc (EDR) was used to collect available records for review. The proposed project footprint was used with an approximately 1-mile search distance. Copies of all reviewed records are included in Attachment 1.

**Table 1
Standard ASTM Search Distances and Records Review Results**

ASTM Source	ASTM Distance (miles)	Searched Distance (miles)	Number of Results
Federal NPL	1.0	1.0	0
Federal Delisted NPL site list	0.5	1.0	0
Federal CERCLIS (SEMS) list	0.5	0.5	0
Federal NFRAP (SEMS archive) site list	0.5	0.5	0
Federal RCRA Corrective Action facilities list	1.0	1.0	0
Federal RCRA TSD facilities list	0.5	0.5	0
Federal RCRA generators list	Property and adjacent properties only	0.25	0
Federal ICs/Engineering Control registry	Property only	0.5	0
Federal Emergency Response Notification System list	Property only	TP	24
State and tribal equivalent NPL list	1.0	1.0	0
State and tribal equivalent CERCLIS	0.5	0.5	0
State and tribal landfills and solid waste disposal sites	0.5	0.5	0
State and tribal leaking AST/UST sites	0.5	0.5	0
State and tribal registered storage tank list	Property and adjacent properties only	0.5	0
State and tribal ICs/Engineering Control registry	Property only	0.5	0
State and tribal voluntary cleanup sites	0.5	0.5	0
Federal, state, and tribal Brownfields site list	0.5	0.5	0

Table 2 details surrounding properties of potential concern.

Table 2
Other Records – Surrounding Properties of Potential Concern

Site Name	Address	Distance from Site (mile)	Relative Elevation	Database	Description
Mont Belvieu to Morgan's Point pipeline	not reported	0.034	Lower	PFAS ECHO	16-inch ethylene pipeline

Table 3 details a chronology of the site and surrounding areas as described in the topographic and data maps provided by EDR and included as Appendix A.

Table 3
Chronology of the Site and Surrounding Areas

Year	Source	Location	Observations
1916	Topographic Maps	Subject and adjacent properties	Galveston Bay and San Jacinto Bay shown with HSC
1919	Topographic Maps	Subject and adjacent properties	Galveston Bay and San Jacinto Bay shown with HSC and various unlabeled land parcels
1928	Topographic Maps	Subject and adjacent properties	Galveston Bay and San Jacinto Bay shown
1932	Topographic Maps	Subject and adjacent properties	Small sections of Galveston Bay shown
1933	Topographic Maps	Subject and adjacent properties	Small portions of Galveston Bay shown
1943	Topographic Maps	Subject and adjacent properties	Small portion of Galveston Bay with oil wells and observation platforms shown
1949	Topographic Maps	Subject and adjacent properties	Galveston Bay and Tabbs Bay shown with HSC and unlabeled land parcels. Harris and Chambers County line, major roads and land features (Water Oak Gully, Fisher Marsh, etc.) shown
1952	Topographic Maps	Subject and adjacent properties	Small portion of Galveston Bay with HSC and small portions of Red Bluff shown
1956	Topographic Maps	Subject and adjacent properties	Galveston Bay and Tabbs Bay shown with HSC and various labeled land parcels. Harris and Chambers County line, major roads and land features (Water Oak Gully, Fisher Marsh, etc.) shown. Map includes oil wells, tanks, reservoirs, and a sludge pit
1961	Topographic Maps	Subject and adjacent properties	Small portion of Galveston Bay, Redfish Reef, gas and oil wells, drill hole, and docks shown
1969	Topographic Maps	Subject and adjacent properties	Galveston Bay and Tabbs Bay shown with HSC and various labeled land parcels. Harris and Chambers County line, major roads and land features (Water Oak Gully, Fisher Marsh, etc.) shown. Map includes oil wells, tanks, reservoirs, sludge pit, in-water spoils area, and pipelines
1974	Topographic Maps	Subject and adjacent properties	Small portion of Galveston Bay, Redfish Reef, gas and oil wells, drill hole, and docks shown

Year	Source	Location	Observations
1982	Topographic Maps	Subject and adjacent properties	Galveston Bay and Tabbs Bay shown with HSC and various labeled land parcels. Harris and Chambers County line, major roads and land features (Water Oak Gully, Fisher Marsh, etc.) shown. Map includes oil wells, sludge pit, and pipelines
1993	Topographic Maps	Subject and adjacent properties	Galveston Bay and Tabbs Bay shown with HSC and various labeled land parcels. Harris and Chambers County line, major roads and land features (Water Oak Gully, Fisher Marsh, etc.) shown. Map includes oil wells, gas wells, drill holes, sludge pit, and pipelines. Levee on Atkinson Island
1995	Topographic Maps	Subject and adjacent properties	Galveston Bay and Tabbs Bay shown with HSC and various labeled land parcels. Harris and Chambers County line, major roads and land features (Water Oak Gully, Fisher Marsh, etc.) shown. Map includes oil wells, gas wells, drill holes, sludge pit, and pipelines. Levee on Atkinson Island
2013	Topographic Maps	Subject and adjacent properties	Galveston Bay shown with various labeled land parcels. Harris and Chambers County line, major roads and land features (Water Oak Gully, Fisher Marsh, etc.) highlighted
2016	Topographic Maps	Subject and adjacent properties	Galveston Bay, Gulf of Mexico, and Tabbs Bay shown with HSC and various labeled land parcels. Harris and Chambers County line, major roads and land features (Water Oak Gully, Fisher Marsh, etc.) shown
2019	Topographic Maps	Subject and adjacent properties	Galveston Bay, Gulf of Mexico, and Tabbs Bay shown with HSC and various labeled land parcels. Harris and Chambers County line present, major roads and land features (Water Oak Gully, Fisher Marsh, etc.) shown
2023	DataMap Well Search	CPIND Deepwater Channel	Shows the study boundary for proposed channel adjustments. Map includes water and oil and gas wells, roads, fault lines, wetlands; Superfund sites, railroads, and 100-year flood zone and contour lines

3.2 Previous Environmental Assessments

An ESA for the HSC expansion was completed by the USACE in 2020 (USACE 2020) and is incorporated by reference. The proposed project would be a deep-draft connection between the HSC and the proposed deep-draft terminal at Cedar Port Industrial Park. Based on its evaluation of the HSC Project 11, the USACE identified seven sites with recognized environmental conditions (RECs). None of the seven sites are located within the area of analysis of any of CPNID’s alternative channel routes or potential PAs.

3.3 Other Historical Records

Several other historical records were reviewed, including geotechnical reports, environmental testing reports, survey reports, and aerial photographs. A summary of the records reviewed is shown in Table 4.

Table 4
Summary of Other Historical Records Reviewed

Record/Document Name	Author or Source	Document Date	Description of Record
Sanborn Map Report	EDR	July 5, 2023	No Sanborn Maps available
Historical Topographic Maps Report	EDR	July 3, 2023	EDR Report with Historical Topographic Maps
Area/Corridor Report	EDR	June 30, 2023	EDR Report
DataMap Well Search Report	EDR	June 30, 2023	EDR Report with Well Search Map
Draft Geotechnical Engineering Report Cedar Bayou Deepening and Widening Project Chambers County Improvement District No. 1 Chambers County, Texas	Tolunay-Wong Engineers, Inc	August 17, 2021	Summary of geotechnical study conducted for the Cedar Bayou Deepening and Widening Project for Chambers County
Findings Report Pre-Dredge Environmental Testing Cedar Bayou Channel Deepening/Widening Cedar Port Industrial Park	Tolunay-Wong Engineers Inc., Lanier and Associates, and DiSorbo Consulting LLC	May 2021	Summary of sediment core analyses in the proposed dredge footprint

4 Site Assessment Activities

4.1 Federal, State, and Tribal Lists

As indicated in Table 1, the records search did not identify any sites in the vicinity of the study area that would result in an REC within the search radius. The federal Emergency Response Notification System (ERNS) yielded 24 records.

4.2 Federal Emergency Response Notification System List

A search of the federal ERNS database, which reports releases of oil and hazardous substances, returned 24 records. Many of the records were either incomplete or lacked enough information to determine the location of the release or what was released. Based on the nature of these records, no meaningful data could be compiled to address risk to the proposed project.

4.3 Other Sites

As previously described, Alternative E cuts through a portion of Atkinson Island BUG cells M3 and M4. These cells were part of the initial construction of the Atkinson Island Marsh Cells. Research was completed to determine whether dredged material used to construct these cells had undergone prior testing or whether dredged material used to construct these cells should be considered a contaminant risk.

Based on coordination and information received from USACE operations and maintenance personnel, these cells were repaired following Hurricane Ike and are considered complete. The manual was reviewed to determine the extent of material testing that had been completed. The Interagency Coordination Team (ICT) was responsible for evaluating and planning the beneficial use marsh cells. The ICT completed studies on the contaminant potential associated with dredging and disposal of new work dredged material for the HSC. The ICT team concluded that there was little or no potential for release of contaminants from the dredging and disposal of new work material.

The ICT determined that the greatest potential for release of contaminants would result from the dredging and disposal of maintenance material. To understand the potential for contaminants in maintenance material, the ICT completed Tier I, II, and III evaluations. Sediments were analyzed for priority pollutants, and bioassays and bioaccumulation studies were completed. It was determined that channel sediments were suitable for beneficial use placement. Therefore, research indicates that evaluation of dredged material used to construct the M3 and M4 cells has been completed and the material was suitable for placement.

4.4 Additional Assessment Activities

4.4.1 Site Visit

The purpose of a site visit is to identify environmental conditions at the site that may not be identified during a records search such as current and past usage of the property and adjacent properties. Because the proposed action is within an existing waterway, a site visit was not conducted for this phase of the investigation.

4.4.2 Interviews

The objective of the interviews is to discover environmental conditions that could not be obtained in the records search and to determine past uses of the subject property. Due to the in-water nature of the proposed project, it is expected that the subjects and scope of the interviews for this study will be limited. Potential interviewees include U.S. Environmental Protection Agency (USEPA) remedial project managers, state regulators, and users of the waterway. The subjects of the interviews may be determined at a later time, if future interviews are deemed necessary.

4.4.3 Sampling Program

Sampling and testing of dredged materials are required prior to dredging to characterize primary pollutants in the dredged material, if any. Feasibility-level sampling and testing of this material was conducted to determine potential environmental impacts from dredging and placement of the material from each of the alternative channel routes.

In July 2023, Anchor QEA collected and analyzed sediment and site water from seven locations in the potential dredging area. Sediments and site water were collected in accordance with the approved Sampling and Analysis Plan (SAP; Anchor QEA 2023). Sediment and site water from two additional locations were collected and analyzed in April 2024. Attachment 2 includes a copy of full analytical results provided by North Water District Laboratory Services (NWDLS). The specific purpose and objectives for this sampling events were as follows:

- Appropriate volumes of site water and sediment sample were collected to characterize the sediments that may be dredged within the proposed deepwater channel routes.
- The physical and chemical characteristics of the sediment within the proposed routes were evaluated to characterize the existing conditions and evaluate suitability for dredging.
- Sediment sample evaluation consisted of grain size, total solids, total organic carbon (TOC), ammonia, total petroleum hydrocarbons (TPH), metals, semivolatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), pesticides, and polychlorinated biphenyl (PCB) congeners, and a standard elutriate test. Water and elutriate sample evaluation consisted of ammonia, TOC, TPH, metals, mercury, PAHs, SVOCs, pesticides, and PCB

congeners. Samples were evaluated against state and federal sediment and water quality benchmarks described in the following subsections as approved in Anchor QEA's SAP.

4.4.3.1 Sediment Chemistry and Physical Data

Sediment chemistry data was compared to applicable sediment quality guidelines (SQGs; Long et al. 1995). SQGs are tools that relate the concentrations of contaminants in sediment to some predicted frequency or intensity of biological effects and are intended to either be protective of biological resources, predictive of adverse effects to those resources, or both. The SQGs were developed as informal (nonregulatory) guidelines for use in interpreting chemical data from analyses of sediments. USACE guidance on using SQGs in dredged material management acknowledges the limitations of each approach used to derive SQGs to date but concludes SQGs are still useful as initial screening values.

Concentrations of detected analytes in sediment samples was compared to SQGs for marine sediments to assess the sediment quality of the material proposed for dredging. SQGs, specifically the effects range low (ERL)/effects range median (ERM) approach will be used to identify potential adverse biological effects associated with contaminated sediments (Long et al. 1995). The effects range values are helpful in assessing the potential significance of elevated sediment-associated contaminants of concern in conjunction with biological testing. ERLs typically represent concentrations below which adverse biological effects were rarely observed, and ERMs typically represent concentrations in the middle of the effects range and above which effects were more frequently observed. Concentrations between the ERL and ERM represent the concentrations at which adverse biological effects occasionally occur.

Although these values are useful for identifying if a contaminant is at a potential level of concern, they should not be used to infer causality because of the inherent variability and uncertainty of the approach used to develop values. For certain pesticide compounds (i.e., chlordane and dieldrin), the ERL is so low as to make it largely impractical to detect the compounds in typical marine sediments using routine analytical procedures. Accordingly, having non-detect results greater than ERL values or method detection limits would not require reanalysis.

4.4.3.2 Elutriate Chemistry Data

Analytes detected in the site water and elutriate samples was compared to water quality standards (WQSs) developed by the state of Texas, USEPA, and the National Oceanic and Atmospheric Administration (NOAA). The prioritization of the benchmark criteria is as follows: 1) Texas State WQS (marine – acute); 2) USEPA WQS (marine – acute); 3) NOAA (marine – acute); and 4) USEPA Region 6.

The subsequent sections of this report further detail sampling activities, as shown in Table 5.

**Table 5
Sampling Program Overview**

Sample Location	Sample Date and Time	Water Depth relative to MLLW (ft)	Core Length (ft)	Longitude	Latitude	Sample Matrix	Sample Analyses
CPC-01	8/15/23 8:53 AM	4.5	6.4	-94.940037	29.650662	Sediment, Water, Elutriate	TS/GS/Ammonia/TPHs/Pesticides/Metals/PCB Aroclors/SVOCs/Dioxins/Furans
CPC-02	8/15/23 9:53 AM	5.8	7.8	-94.928615	29.653075	Sediment, Water, Elutriate	TS/GS/Ammonia/TPHs/Pesticides/Metals/PCB Aroclors/SVOCs/Dioxins/Furans
CPC-03	8/15/23 10:58 AM	5.9	7.7	-94.939272	29.640914	Sediment, Water, Elutriate	TS/GS/Ammonia/TPHs/Pesticides/Metals/PCB Aroclors/SVOCs/Dioxins/Furans
CPC-04	8/15/23 11:45 AM	5.1	7	-94.941033	29.632794	Sediment, Water, Elutriate	TS/GS/Ammonia/TPHs/Pesticides/Metals/PCB Aroclors/SVOCs/Dioxins/Furans
CPC-05	8/16/23 9:20 AM	8.5	6.6	-94.915047	29.623110	Sediment, Water, Elutriate	TS/GS/Ammonia/TPHs/Pesticides/Metals/PCB Aroclors/SVOCs/Dioxins/Furans
CPC-06	8/16/23 10:45 AM	9	7.6	-94.907713	29.594459	Sediment, Water, Elutriate	TS/GS/Ammonia/TPHs/Pesticides/Metals/PCB Aroclors/SVOCs/Dioxins/Furans
CPC-07	8/16/23 11:30 AM	9.2	4.5	-94.903553	29.565798	Sediment, Water, Elutriate	TS/GS/Ammonia/TPHs/Pesticides/Metals/PCB Aroclors/SVOCs/Dioxins/Furans

5 Sample Collection

All sample collection methods and chemical analyses for the initial seven sample locations were conducted according to the approved SAP (Anchor QEA 2023).

The following subsections provide a synoptic overview of approved sample collection procedures.

5.1 Sample Locations

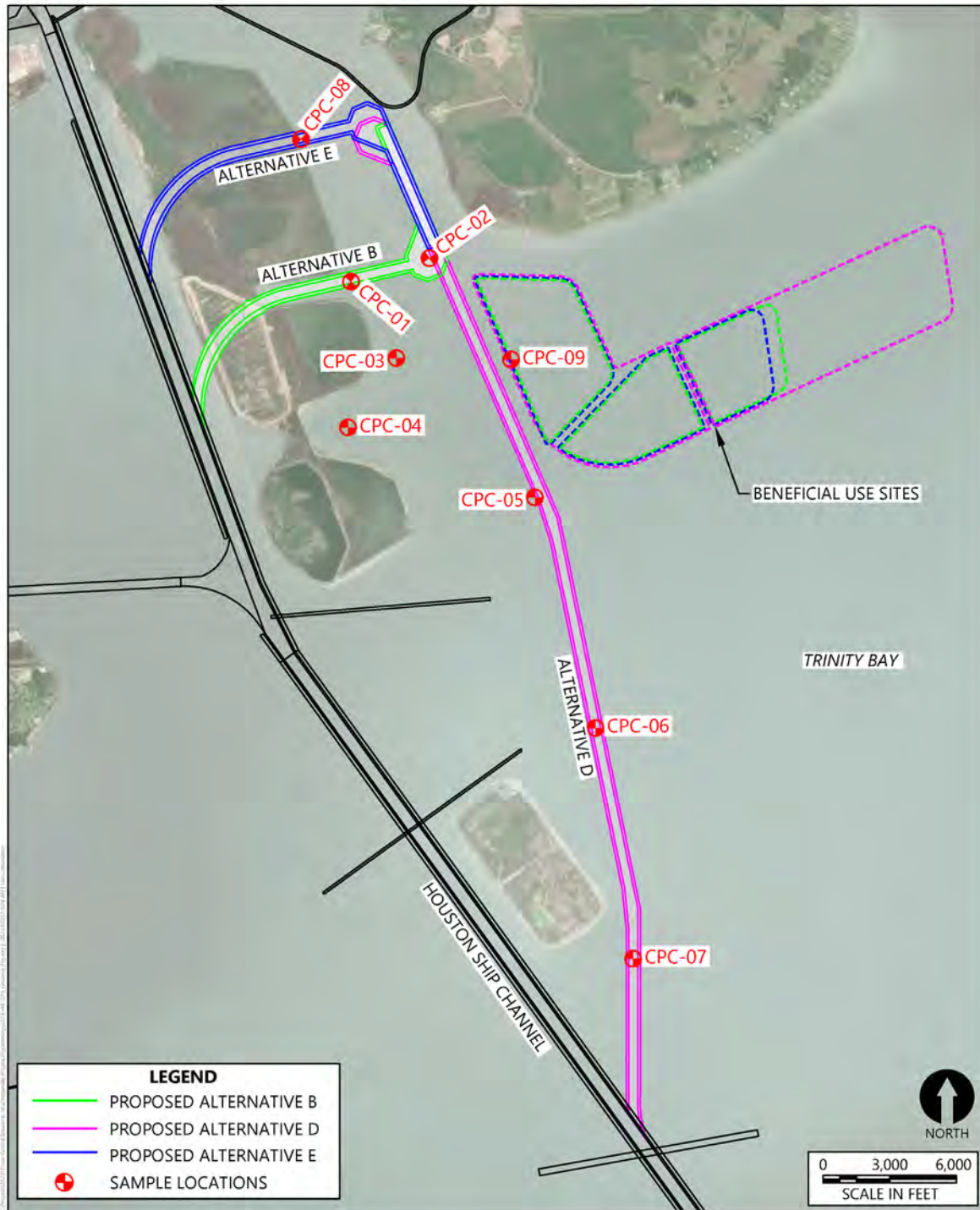
Nine sample locations were selected for sediment and site water collection based on the proposed alternatives for navigation channels. Sample locations were chosen to provide sufficient spatial coverage of the area so the conditions throughout all navigation channel alternatives were characterized and in areas where a minimum of 8 feet of soft sediments were expected. Each sample location and each individual sediment, surface water, and resulting elutriate sample was assigned a unique alphanumeric identifier using the following format:

- The first set of characters identify the site (i.e., "CPC" for Cedar Port Channel).
- The next two characters identify the coring location number (01 through 09).
- The following characters identify the sample type according to the following:
 - "SC" for sediment core
 - "SW" for surface water
 - "SET" for standard elutriate
- The remaining characters identify the sampling date (MMDDYY).

Each alternative route and the beneficial use site were sampled. Sample point CPC-02 is located where the three alternatives converge and represents Alternatives B, C, and D. Figure 3 shows the sample locations relative to the alternative channel routes as follows:

- Alternative B is represented by samples CPC-01 and CPC-02
- Alternative D is represented by samples CPC-05, CPC-06, and CPC-07
- Alternative E is represented by sample CPC-08
- The beneficial use PA is represented by sample CPC-09

Figure 3
Sample Locations and Alternative Routes



Vessel navigation to the predetermined sampling locations sample locations was accomplished using a Trimble global positioning system (GPS) unit, which was also used to determine the actual collection coordinates and offset for each sample.

5.2 Water Sample Collection

Site water was collected using a Kemmerer-style water sampler at approximately 2 feet below the water surface prior to sediment core collection. The sampler was lowered to the target depth using a rope and allowed to sit while particulates settled out. Water samples were poured into pre-cleaned, laboratory-provided bottles and put on ice immediately upon collection. Nitrile gloves were worn during sample collection and processing. Equipment was decontaminated between sample locations to minimize the possibility of cross contamination. Field data at the time of site water collection, including temperature, pH, dissolved oxygen, total dissolved solids (TDS), and salinity were measured using a multiparameter water quality sonde at five of the nine sampling locations (Table 6).

Table 6
Water Quality Measurements and Sediment Sample Descriptions

Sample Location	Date and Time	Temperature (°C)	Conductivity (mS/cm)	TDS (g/L)	Salinity (ppt)	DO %	DO (mg/L)	pH	ORP (mV)	Sediment Sample Description
CPC-01*	8/15/23 8:53 AM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Gray brown soft fine silt, increasingly clayey with depth
CPC-02*	8/15/23 9:53 AM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Gray brown fine sand with silt, shell hash and bivalve shells
CPC-03	8/15/23 10:58 AM	31.4	31.43	20.43	19.42	N/A	6.07	7.93	210.5	Gray brown fine sand with silt, bivalve shells
CPC-04	8/15/23 11:45 AM	31.25	31.35	20.37	19.36	101.4	7.11	8.43	202.5	Gray brown fine sand with silt, red yellow clay mottling
CPC-05	8/16/23 9:20 AM	30.16	30.84	20.04	19.04	74.1	5.03	8.34	134.9	Gray brown fine sand with silt, gray brown low plasticity clay below 5 feet
CPC-06	8/16/23 10:45 AM	30.43	32.91	21.39	20.45	93.7	6.27	8.62	141.3	Gray brown silt with clay mottling
CPC-07	8/16/23 11:30 AM	30.4	33.1	21.46	20.46	101.2	6.76	8.76	201	Gray soft fine silt, increasingly clayey with depth
CPC-08*	4/25/24 1:35 PM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Gray clayey sand, shell hash
CPC-09*	4/25/24 10:50 AM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Soft gray clay, shell hash

Note: YSI readings not collected for points CPC-01, CPC-02, CPC-08, and CPC-09

5.3 Sediment Sample Collection

The original seven sediment cores (collected in August 2023) were collected using an electrically powered vibracore. Core tubes (10 feet in length to obtain at least the 8-foot target core lengths) consisting of polyethylene liners inside a 4-inch-outer-diameter aluminum core barrel with a stainless-steel catcher to retain the sediment were used. A new liner was inserted into the core tube prior to sampling at each station to eliminate the possibility of cross contamination among stations. Care was taken during sampling to avoid contact of the sample tube with potentially contaminated surfaces. During deployment and retrieval of the coring device, care was taken to ensure the end of the core tube did not become contaminated.

The vibracore was deployed from a vessel using a hydraulic A-frame and winch. The vibracore was energized as it neared the bottom and was supported upright with the winch line during penetration into the sediment. Upon completion of penetration to the target core depth at a station, the vibracore was then shut down, the position recorded, and the sampler recovered. After the core was brought on deck, the core was capped on both ends and labeled. Cores were kept vertical until processing was completed. Sediment cores were inspected after they were secured onboard the sampling vessel. Cores were evaluated for acceptability using the following criteria:

- The sediment surface was relatively undisturbed.
- The vibracore was not inserted at an angle or tilted upon retrieval, based on a visual inspection of the coring unit.
- At least 80% core recovery versus penetration was achieved.

If a core tube failed to meet any of these criteria, it was rejected, and the sediment was placed back in the sampling area after an acceptable sediment sample was retrieved. Sediment cores that met these criteria were processed near the boat ramp the same day after returning to shore.

All work surfaces and instruments used in the processing area were thoroughly cleaned, decontaminated, and covered with aluminum foil to minimize outside contamination between each sample processed. Nitrile gloves were worn while processing, discarded after processing each station, and replaced prior to handling decontaminated instruments or work surfaces. Cores were cut for logging and sampling by removing the core caps and cutting the core tube longitudinally with tin shears. The core was split into two halves. Color photographs were taken of the entire core. The project name, station identification, attempt number (if more than one attempt was made), and sample date and time were labeled on a whiteboard and included in each photograph. These photographs can be found in Attachment 3. A description of each core was recorded on the core log (Attachment 4). The following parameters were noted:

- Sample recovery (percent)
- Physical soil description in accordance with ASTM procedures

- (ASTM D 2488 and ASTM D 2487: Unified Soil Classification System), including soil type, density, consistency, and color
- Visual stratification, structure, and texture
- Vegetation and debris (e.g., wood chips or fibers)
- Biological activity (e.g., detritus, shells, tubes, bioturbation, and live or dead organisms)
- Presence of oil sheen, if any
- Any other distinguishing characteristics or features

Sediment from the entire length of the core (up to the target depth) was homogenized to a uniform consistency in a stainless-steel bowl. Sample containers were kept in packaging as received from the analytical laboratory until use. A sample container was withdrawn only when a sample was collected. Sediment was placed into jars appropriate for physical and chemical analyses and into clean, food-grade polyethylene bags or high-density polyethylene (HDPE) buckets for the preparation of elutriate samples. All jars were firmly sealed with Teflon-lined lids and placed in resealable plastic bags to prevent leaks. Sediment samples were immediately stored on ice until delivery to the analytical laboratory for analysis.

The two additional samples collected April 2024 were obtained during geotechnical boring collection. Split spoons were used to collect sediment cores. Cores were split open and sediments from the inner portion of the top 8-feet of the core were collected to obtain material that had not been in contact with boring equipment. Sediment was then placed into a decontaminated bowl and homogenized to a uniform consistency. Sediment was then placed into jars appropriate for physical and chemical analyses and into clean, food-grade polyethylene bags or HDPE buckets for the preparation of elutriate samples. All jars were firmly sealed with Teflon-lined lids and placed in resealable plastic bags to prevent leaks. Sediment samples were stored on ice until delivery to the analytical laboratory for analysis.

5.4 Standard Elutriate Samples

Water samples collected for standard elutriate tests were collected with the other site water samples using the procedure described in Section 5.2. Sediments used for standard elutriate test samples were collected from the same sediment cores, using the procedure described in Section 5.3.

5.5 Sample Preservation, Storage, and Chain-of-Custody Procedures

A suitable method for preservation and shipment of water and sediment samples was used and documented. Immediately after collection, the samples were stored at 2°C to 4°C, never frozen. Analyses were performed within the recommended hold times. Confirmation of all sample handling, storage, and preservation requirements was coordinated with the analytical facility performing the project analyses.

Appropriate chain-of-custody protocols were followed sample collection. Chain-of-custody documents are provided in Attachment 4.

6 Results and Discussion

This section presents the results of the site water, standard elutriate, and sediment samples collected during this investigation. Table 7 provides a list of parameters for all required analyses. Analytical results of various media, appropriate standards, criteria, and screening values to which the detected parameters can be compared can be found in Tables 8 through 17.

Table 7
Analyses and Analytical Methods

Analyte	Sediment Analytical Method	Water and Elutriate Analytical Method
Conventional Parameters		
Total solids	SM 2540 G	-
Grain size	ASTM D422	-
TOC	SW-9060	EPA 415.1
Ammonia	USEPA 350.2	EPA 350.1
TPHs	TX 1005	TX 1005
Metals (mg/kg)		
Antimony	USEPA 200.8	USEPA 200.8
Arsenic	USEPA 200.8	USEPA 200.8
Cadmium	USEPA 200.8	USEPA 200.8
Chromium	USEPA 200.8	USEPA 200.8
Copper	USEPA 200.8	USEPA 200.8
Lead	USEPA 200.8	USEPA 200.8
Mercury	SW-7471B	USEPA 245.1
Nickel	USEPA 200.8	USEPA 200.8
Silver	USEPA 200.8	USEPA 200.8
Zinc	USEPA 200.8	USEPA 200.8
Semivolatile Organic Compounds (µg/kg)		
1,2,4-trichlorobenzene	USEPA 8270	SW-8270
1,2-dichlorobenzene	USEPA 8270	SW-8270
1,3-dichlorobenzene	USEPA 8270	SW-8270
1,4-dichlorobenzene	USEPA 8270	SW-8270
2,4-dichlorophenol	USEPA 8270	SW-8270
2,4-dimethylphenol	USEPA 8270	SW-8270
2,4-dinitrophenol	USEPA 8270	SW-8270
Acenaphthene	USEPA 8270	SW-8270
Acenaphthylene	USEPA 8270	SW-8270
Anthracene	USEPA 8270	SW-8270

Analyte	Sediment Analytical Method	Water and Elutriate Analytical Method
Benz[a]anthracene	USEPA 8270	SW-8270
Benzo[a]pyrene	USEPA 8270	SW-8270
Benzo[b]fluoranthene	USEPA 8270	SW-8270
Benzo[g,h,i]perylene	USEPA 8270	SW-8270
Benzo[k]fluoranthene	USEPA 8270	SW-8270
Chrysene	USEPA 8270	SW-8270
Dibenz[a,h]anthracene	USEPA 8270	SW-8270
Diethyl phthalate	-	SW-8270
Fluoranthene	USEPA 8270	SW-8270
Fluorene	USEPA 8270	SW-8270
Hexachlorobenzene	USEPA 8270	SW-8270
Indeno[1,2,3-c,d]pyrene	USEPA 8270	SW-8270
Naphthalene	USEPA 8270	SW-8270
Pentachlorophenol	USEPA 8270	SW-8270
Phenanthrene	USEPA 8270	SW-8270
Phenol	USEPA 8270	SW-8270
Pyrene	USEPA 8270	SW-8270
Pesticides (µg/kg)		
4,4'-DDD	SW-8081	SW-8081
4,4'-DDE	SW-8081	SW-8081
4,4'-DDT	SW-8081	SW-8081
Aldrin	SW-8081	SW-8081
BHC-alpha	SW-8081	SW-8081
BHC-beta	SW-8081	SW-8081
BHC-delta	SW-8081	SW-8081
BHC-gamma	SW-8081	SW-8081
Chlordane-alpha	SW-8081	SW-8081
Chlordane-gamma	SW-8081	SW-8081
Dieldrin	SW-8081	SW-8081
Endosulfan sulfate	SW-8081	SW-8081
Endosulfan-I	SW-8081	SW-8081
Endosulfan-II	SW-8081	SW-8081
Endrin	SW-8081	SW-8081
Endrin aldehyde	SW-8081	SW-8081
Endrin ketone	SW-8081	SW-8081
Heptachlor	SW-8081	SW-8081
Heptachlor epoxide	SW-8081	SW-8081

Analyte	Sediment Analytical Method	Water and Elutriate Analytical Method
Toxaphene	SW-8081	SW-8081
Polychlorinated Biphenyls (µg/kg)		
Total PCBs	SW-8082	SW-8082
Dioxins/Furans (ng/kg)		
2,3,7,8-TCDD	SW-8290	-
1,2,3,7,8-PeCDD	SW-8290	-
1,2,3,4,7,8-HxCDD	SW-8290	-
1,2,3,6,7,8-HxCDD	SW-8290	-
1,2,3,7,8,9-HxCDD	SW-8290	-
1,2,3,4,6,7,8-HpCDD	SW-8290	-
OCDD	SW-8290	-
2,3,7,8-TCDF	SW-8290	-
1,2,3,7,8-PeCDF	SW-8290	-
2,3,4,7,8-PeCDF	SW-8290	-
1,2,3,4,7,8-HxCDF	SW-8290	-
1,2,3,6,7,8-HxCDF	SW-8290	-
2,3,4,6,7,8-HxCDF	SW-8290	-
1,2,3,7,8,9-HxCDF	SW-8290	-
1,2,3,4,6,7,8-HpCDF	SW-8290	-
1,2,3,4,7,8,9-HpCDF	SW-8290	-
OCDF	SW-8290	-

6.1 Laboratory Analyses

All analyses for organic and inorganic compounds and elements, as well as for the miscellaneous parameters required by the SAP were conducted by NWDLS in The Woodlands, Texas. Sediment and surface water samples were collected on August 15 and 16, 2023, and were received at NWDLS on August 17, 2023, properly preserved and intact. Two additional samples were collected on April 25, 2024, and were received at NWDLS on April 25, 2024, properly preserved and intact.

All analyses were completed within the appropriate hold times for the medium. There were no laboratory quality control issues, as noted in the Case Narratives (Attachment 2), which was extracted from the complete reports provided by NWDLS. Chain-of-custody forms are provided in Attachment 4, and complete quality control data are included in Attachment 5.

6.2 Cedar Bayou Navigation Channel

The Cedar Bayou Navigational Channel was tested by DiSorbo Environmental Consulting Firm in May 2021. Water quality criteria used for comparison to surface water and standard elutriate samples included Texas Surface Water Quality Standards (TCEQ 2010), USEPA National Water Quality Criteria (marine acute; USEPA 2023), NOAA Screening Quick Reference Tables (Buchman 2008), and USEPA Region 6 Watershed Standards (marine acute; USEPA 2001). Screening benchmarks used for sediment included NOAA-ERL for marine (Long 1995), USEPA Region 6 published values (USEPA 2001), and Texas Risk Reduction Program (TRRP) Tier 1 Residential values for human health exposure (TRRP Protective Concentration Levels – Texas Commission on Environmental Quality – www.tceq.texas.gov).

The water and elutriate tests showed that most of the analytes were non-detect, and the analytes that were detected all fell below the defined water quality criteria. The sediment analysis similarly detected few analytes, and the majority of these analytes fell below the defined screening benchmarks. Only one analyte exceeded the defined screening benchmark. Arsenic was found to exceed the NOAA ERL benchmark but was less than the secondary benchmark from NOAA, the ERM and the TCEQ TRRP Residential value for arsenic. The concentration of arsenic in the elutriate sample for this location was also less than all water quality criteria for arsenic. DiSorbo concluded that, based on this testing, the dredged sediment placement on land with subsequent dewatering by settling and the resulting discharge of return water will not have a negative or degrading impact on the environmental conditions at a PA or Cedar Bayou.

6.3 Site Water and Standard Elutriate Sample Results

The results of chemical analyses for compounds detected in surface water and standard elutriate samples are presented in Tables 8 through 12. Also included in Tables 8 through 12 are the applicable water quality criteria for each analyte. Because the sediment and water samples used to

prepare elutriates are from grab samples from a marine environment, and thus are a snapshot in time and not from a series of samples taken over time, the acute criteria are appropriate for comparison.

Elutriates were prepared from test sediment and channel water, filtered or centrifuged to remove suspended material for trace metal analysis (except mercury and selenium), and submitted for chemical analysis. Therefore, elutriates provide information on those constituents that are dissolved into the water column during dredging and open-water placement.

6.3.1 *Alternative B*

Alternative B is represented by locations CPC-01 and CPC-02. No site water samples exceeded the screening benchmark for any of the points along Alternative B. One elutriate sample, CPC-01, exceeded the water quality criteria for ammonia as nitrogen. No other criteria were exceeded (Table 8).

Table 8
Concentrations of Analytes in Surface Water Samples and Standard Elutriate Samples – Alternative B

Analyte	TDL	Screening Benchmarks				Cedar Port Surface Water		Cedar Port Elutriate	
		TSWQS (Marine Acute) ^a	EPA WQC (Marine Acute) ^b	NOAA (Marine Acute) ^c	Region 6 (Marine Acute) ^d	CPC-01	CPC-02	CPC-01	CPC-02
Conventional Parameters (mg/L)									
Ammonia as nitrogen	0.03	1.5 ^e	-	-	-	0.482	0.447	4.13	0.975
Total organic carbon	0.1	-	-	-	-	5.4	6.1	6.4	6.8
Metals (µg/L)									
Mercury	0.2	2.1	-	1.8	1.1	0.200 U	0.200 U	0.200 U	0.200 U
Metals, Dissolved (µg/L)									
Antimony	3	-	-	1,500	500	5.00 U	5.00 U	1.67 J	3.12 J
Arsenic	1	149	69	69	78	2.79	2.74	3.35	14.8
Cadmium	1	40	40	40	-	5.00 U	5.00 U	5.00 U	5.00 U
Chromium	1	-	-	-	103	1.06 U	0.529 U	15 U	15.0 U
Copper	1	13.5	4.8	4.8	3.6	2.67 J	4.50 J	5.00 U	5.0 U
Lead	1	133	210	210	5.3	0.579 J	2.50 U	2.50 U	2.50 U
Nickel	1	118	74	74	13.1	5.0 U	5.0 U	5.0 U	5.0 U
Silver	1	2	1.9	0.95	-	2.50 U	2.50 U	2.50 U	2.50 U
Zinc	1	92.7	90	90	84.2	3.42 U	2.44 U	2.22 U	1.35 U
Semivolatile Organics (µg/L)									
1,2,4-Trichlorobenzene	0.9	-	-	160	22	0.560 U	0.558 U	0.562 U	0.562 U
1,2-Dichlorobenzene	0.8	-	-	1,970	591	0.560 U	0.558 U	0.562 U	0.562 U
1,3-Dichlorobenzene	0.9	-	-	1,970	142	0.560 U	0.558 U	0.562 U	0.562 U
1,4-Dichlorobenzene	1	-	-	1,970	99	0.560 U	0.558 U	0.562 U	0.562 U
2,4-Dichlorophenol	1	-	-	-	-	1.12 U	1.12 U	1.12 U	1.12 U
2,4-Dimethylphenol	10	-	-	-	-	1.12 U	1.12 U	1.12 U	1.12 U

Analyte	TDL	Screening Benchmarks				Cedar Port Surface Water		Cedar Port Elutriate	
		TSWQS (Marine Acute) ^a	EPA WQC (Marine Acute) ^b	NOAA (Marine Acute) ^c	Region 6 (Marine Acute) ^d	CPC-01	CPC-02	CPC-01	CPC-02
2,4-Dinitrophenol	5	-	-	4,850	1,330	4.48 U	4.46 U	4.50 U	4.50 U
Benzo(b,k)fluoranthene	0.6	-	-	300	-	1.12 U	1.12 U	1.12 U	1.12 U
Diethyl phthalate	1	-	-	2,944	884	0.582 U	0.558 U	0.562 U	0.562 U
Hexachlorobenzene	0.4	-	-	160	-	0.560 U	0.558 U	0.562 U	0.562 U
Pentachlorophenol	50	15.1	13	13	9.6	1.12 U	1.12 U	1.12 U	1.12 U
Phenol	10	-	-	5,800	5,500	2.05 U	1.89 U	1.12 U	1.20 U
Polycyclic Aromatic Hydrocarbons (µg/L)									
Acenaphthene	0.75	-	-	970	40.4	0.560 U	0.558 U	0.562 U	0.562 U
Acenaphthylene	1	-	-	300	-	0.560 U	0.558 U	0.562 U	0.562 U
Anthracene	0.6	-	-	300	0.18	0.560 U	0.558 U	0.562 U	0.562 U
Benzo(a)anthracene	0.4	-	-	300	-	0.560 U	0.558 U	0.562 U	0.562 U
Benzo(a)pyrene	0.3	-	-	300	-	0.560 U	0.558 U	0.562 U	0.562 U
Benzo(g,h,i)perylene	1.2	-	-	300	-	0.560 U	0.558 U	0.562 U	0.562 U
Chrysene	0.3	-	-	300	-	0.560 U	0.558 U	0.562 U	0.562 U
Dibenzo(a,h)anthracene	1.3	-	-	300	-	0.560 U	0.558 U	0.562 U	0.562 U
Fluoranthene	0.9	-	-	40	2.96	0.560 U	0.558 U	0.562 U	0.562 U
Fluorene	0.6	-	-	300	50	0.560 U	0.558 U	0.562 U	0.562 U
Indeno(1,2,3-c,d)pyrene	1.2	-	-	300	-	0.560 U	0.558 U	0.562 U	0.562 U
Naphthalene	0.8	-	-	-	250	0.560 U	0.558 U	0.562 U	0.562 U
Phenanthrene	0.5	7.7	-	7.7	4.6	0.560 U	0.558 U	0.562 U	0.562 U
Pyrene	1.5	-	-	300	0.24	0.560 U	0.558 U	0.562 U	0.562 U
Total PAHs (U = 0)		-	-	-	-	1.12 U	1.12 U	1.12 U	1.12 U
Pesticides (µg/L)									
4,4'-DDD (p,p'-DDD)	0.1	0.13	-	3.6	0.025	0.00600 U	0.00600 U	0.00600 U	0.00600 U

Analyte	TDL	Screening Benchmarks				Cedar Port Surface Water		Cedar Port Elutriate	
		TSWQS (Marine Acute) ^a	EPA WQC (Marine Acute) ^b	NOAA (Marine Acute) ^c	Region 6 (Marine Acute) ^d	CPC-01	CPC-02	CPC-01	CPC-02
4,4'-DDE (p,p'-DDE)	0.1	-	-	14	0.14	0.00600 U	0.00600 U	0.00600 U	0.00600 U
4,4'-DDT (p,p'-DDT)	0.1	-	0.13	0.065	0.001	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Aldrin	0.03	1.3	1.3	0.65	0.13	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Chlordane, alpha- (Chlordane, cis-)	0.03	-	-	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Chlordane, gamma-	0.03	-	-	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Dieldrin	0.03	0.71	0.71	0.355	0.002	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Endosulfan sulfate	0.1	0.034	0.034	0.017	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Endosulfan, alpha- (I)	0.1	0.034	0.034	0.017	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Endosulfan, beta (II)	0.1	0.034	0.034	0.017	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Endrin	0.1	0.037	0.037	0.0185	0.002	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Endrin aldehyde	0.1	-	-	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Endrin ketone	0.1	-	-	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Heptachlor	0.1	0.053	0.053	0.0265	0.004	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Heptachlor epoxide	0.1	-	-	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Hexachlorocyclohexane (BHC), alpha-		-	-	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Hexachlorocyclohexane (BHC), beta-		-	-	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Hexachlorocyclohexane (BHC), delta-		-	-	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Hexachlorocyclohexane (BHC), gamma- (Lindane)		-	0.16	0.08	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Toxaphene	0.5	0.21	90	0.21	0.0002	0.300 U	0.300 U	0.300 U	0.300 U
Sum DDX (U = 0 max limit)		-	-	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U

Analyte	TDL	Screening Benchmarks				Cedar Port Surface Water		Cedar Port Elutriate	
		TSWQS (Marine Acute) ^a	EPA WQC (Marine Acute) ^b	NOAA (Marine Acute) ^c	Region 6 (Marine Acute) ^d	CPC-01	CPC-02	CPC-01	CPC-02
Total Chlordane (alpha and gamma) (U = 0)	5	0.09	0.09	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U
PCB Aroclors (µg/L)									
Aroclor 1016		-	-	-	-	0.120 U	0.120 UJ	0.120 UJ	0.120 U
Aroclor 1221		-	-	-	-	0.120 U	0.120 UJ	0.120 UJ	0.120 U
Aroclor 1232		-	-	-	-	0.120 U	0.120 UJ	0.120 UJ	0.120 U
Aroclor 1242		-	-	-	-	0.120 U	0.120 UJ	0.120 UJ	0.120 U
Aroclor 1248		-	-	-	-	0.120 U	0.120 UJ	0.120 UJ	0.120 U
Aroclor 1254		-	-	-	-	0.120 U	0.120 UJ	0.120 UJ	0.120 U
Aroclor 1260		-	-	-	-	0.120 U	0.120 UJ	0.120 UJ	0.120 U
Aroclor 1262		-	-	-	-	0.120 U	0.120 UJ	-	-
Aroclor 1268		-	-	-	-	0.120 U	0.120 UJ	-	-
Total PCB Aroclors (U = 0)	1	10	-	0.033		0.120 U	0.120 UJ	0.120 UJ	0.120 U
Total Petroleum Hydrocarbons (mg/L)									
Total petroleum hydrocarbons (C6-C35)	0.1	-	-	-	NA	2.06 U	2.04 U	2.09 UJ	2.09 UJ

Notes:

a. TSWQS- <https://www.tceq.texas.gov/waterquality/standards/2010standards.html>

b. EPA WQC- <https://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm>

c. NOAA- <http://response.restoration.noaa.gov/cpr/sediment/squirt/squirt.html>

d. Region 6- <http://www.epa.gov/region6/water/ecopro/watershd/standard/index.htm>

e. Based on temperature, salinity, and pH of the area and Ambient Water Quality Criteria for Ammonia (Saltwater)- 1989. EPA 440/5-88-004.

Detected concentration is greater than the USACE Galveston District Water and Elutriate Private Dredging Application selected criteria

Chosen screening benchmark

Bold indicates a detected result

All non-detect results are reported at the reporting limit except results for high resolution methods, which are reported at the method detection limit.

Calculated values have been rounded to laboratory-reported significant digits.

Chlordane screening levels are applied to total chlordane as specified by the selected TSWQS (Marie Acute) criteria.

Endosulfan screening levels are applied individually to all endosulfan and endosulfan derivatives as specified by the selected TSWQS (Marie Acute) criteria.

Endrin screening levels are applied to endrin and no derivatives as specified by the selected TSWQS (Marie Acute) criteria.

Heptachlor screening levels are applied to heptachlor and no derivatives as specified by the selected TSWQS (Marie Acute) criteria.

Totals are calculated as the sum of all detected results (U=0). If all results are not detected, the highest reporting limit value is reported as the sum.

Total Chlordane (alpha and gamma) is the total of Chlordane, alpha- (Chlordane, cis-) and Chlordane, gamma-.

Total DDX is the sum of 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT.

Total PAHs is the sum of acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(g,h,i)perylene, benzo(b,k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-c,d)pyrene, naphthalene, phenanthrene, and pyrene.

Total PCB Aroclors is the total of all PCB Aroclors listed in this table.

USEPA Stage 2A data validation was completed by Anchor QEA.

6.3.2 *Alternative D*

Alternative D is represented by locations CPC-05, CPC-06, and CPC-07. No site water samples or elutriate samples exceeded water quality criteria for any of the sample locations within Alternative D (Table 10).

Table 9
Concentrations of Analytes in Surface Water Samples and Standard Elutriate Samples – Alternative D

Analyte	TDL	Screening Benchmarks				Cedar Port Surface Water			Cedar Port Elutriate		
		TSWQS (Marine Acute) ^a	EPA WQC (Marine Acute) ^b	NOAA (Marine Acute) ^c	Region 6 (Marine Acute) ^d	CPC-05	CPC-06	CPC-07	CPC-05	CPC-06	CPC-07
Conventional Parameters (mg/L)											
Ammonia as nitrogen	0.03	1.5 ^e	-	-	-	0.471	0.483	0.463	1.24	0.932	0.921
Total organic carbon	0.1	-	-	-	-	5.6	5.1	5.3	7.2	6.9	6.6
Metals (µg/L)											
Mercury	0.2	2.1	-	1.8	1.1	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Metals, Dissolved (µg/L)											
Antimony	3	-	-	1,500	500	5.00 U	5.00 U	5.00 U	3.33 J	3.51 J	2.81 J
Arsenic	1	149	69	69	78	3.06	2.6	2.81	11.7	11.6	10.7
Cadmium	1	40	40	40	-	0.531 J	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chromium	1	-	-	-	103	15 U	15 U	15 U	15 U	15 U	15 U
Copper	1	13.5	4.8	4.8	3.6	3.22 J	5.0 U	5.0 U	5.00 U	5.0 U	5.0 U
Lead	1	133	210	210	5.3	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U
Nickel	1	118	74	74	13.1	2.75 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Silver	1	2	1.9	0.95	-	0.231 J	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U
Zinc	1	92.7	90	90	84.2	4.78 J	1.85 J	1.76 J	10.0 U	10.0 U	10.0 U
Semivolatile Organics (µg/L)											
1,2,4-Trichlorobenzene	0.9	-	-	160	22	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
1,2-Dichlorobenzene	0.8	-	-	1,970	591	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
1,3-Dichlorobenzene	0.9	-	-	1,970	142	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
1,4-Dichlorobenzene	1	-	-	1,970	99	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
2,4-Dichlorophenol	1	-	-	-	-	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U
2,4-Dimethylphenol	10	-	-	-	-	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U

Analyte	TDL	Screening Benchmarks				Cedar Port Surface Water			Cedar Port Elutriate		
		TSWQS (Marine Acute) ^a	EPA WQC (Marine Acute) ^b	NOAA (Marine Acute) ^c	Region 6 (Marine Acute) ^d	CPC-05	CPC-06	CPC-07	CPC-05	CPC-06	CPC-07
2,4-Dinitrophenol	5	-	-	4,850	1,330	4.49 U	4.47 U	4.46 U	4.50 U	4.50 U	4.50 U
Benzo(b,k)fluoranthene	0.6	-	-	300	-	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U
Diethyl phthalate	1	-	-	2,944	884	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
Hexachlorobenzene	0.4	-	-	160	-	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
Pentachlorophenol	50	15.1	13	13	9.6	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U
Phenol	10	-	-	5,800	5,500	1.48 U	1.37 U	1.21 U	1.12 U	1.12 U	1.43 U
Polycyclic Aromatic Hydrocarbons (µg/L)											
Acenaphthene	0.75	-	-	970	40.4	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
Acenaphthylene	1	-	-	300	-	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
Anthracene	0.6	-	-	300	0.18	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
Benzo(a)anthracene	0.4	-	-	300	-	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
Benzo(a)pyrene	0.3	-	-	300	-	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
Benzo(g,h,i)perylene	1.2	-	-	300	-	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
Chrysene	0.3	-	-	300	-	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
Dibenzo(a,h)anthracene	1.3	-	-	300	-	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
Fluoranthene	0.9	-	-	40	2.96	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
Fluorene	0.6	-	-	300	50	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
Indeno(1,2,3-c,d)pyrene	1.2	-	-	300	-	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
Naphthalene	0.8	-	-	-	250	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
Phenanthrene	0.5	7.7	-	7.7	4.6	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
Pyrene	1.5	-	-	300	0.24	0.561 U	0.559 U	0.558 U	0.562 U	0.562 U	0.562 U
Total PAHs (U = 0)		-	-	-	-	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U	1.12 U
Pesticides (µg/L)											
4,4'-DDD (p,p'-DDD)	0.1	0.13	-	3.6	0.025	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U

Analyte	TDL	Screening Benchmarks				Cedar Port Surface Water			Cedar Port Elutriate		
		TSWQS (Marine Acute) ^a	EPA WQC (Marine Acute) ^b	NOAA (Marine Acute) ^c	Region 6 (Marine Acute) ^d	CPC-05	CPC-06	CPC-07	CPC-05	CPC-06	CPC-07
4,4'-DDE (p,p'-DDE)	0.1	-	-	14	0.14	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
4,4'-DDT (p,p'-DDT)	0.1	-	0.13	0.065	0.001	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Aldrin	0.03	1.3	1.3	0.65	0.13	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Chlordane, alpha- (Chlordane, cis-)	0.03	-	-	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Chlordane, gamma-	0.03	-	-	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Dieldrin	0.03	0.71	0.71	0.355	0.002	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Endosulfan sulfate	0.1	0.034	0.034	0.017	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Endosulfan, alpha- (I)	0.1	0.034	0.034	0.017	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Endosulfan, beta (II)	0.1	0.034	0.034	0.017	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Endrin	0.1	0.037	0.037	0.0185	0.002	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Endrin aldehyde	0.1	-	-	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Endrin ketone	0.1	-	-	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Heptachlor	0.1	0.053	0.053	0.0265	0.004	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Heptachlor epoxide	0.1	-	-	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Hexachlorocyclohexane (BHC), alpha-		-	-	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Hexachlorocyclohexane (BHC), beta-		-	-	-	-	0.00600 U	0.00600 U	0.00613	0.00600 U	0.00600 U	0.00600 U
Hexachlorocyclohexane (BHC), delta-		-	-	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Hexachlorocyclohexane (BHC), gamma- (Lindane)		-	0.16	0.08	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
Toxaphene	0.5	0.21	90	0.21	0.0002	0.300 U	0.300 U	0.300 U	0.300 U	0.300 U	0.300 U
Sum DDX (U = 0 max limit)		-	-	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U

Analyte	TDL	Screening Benchmarks				Cedar Port Surface Water			Cedar Port Elutriate		
		TSWQS (Marine Acute) ^a	EPA WQC (Marine Acute) ^b	NOAA (Marine Acute) ^c	Region 6 (Marine Acute) ^d	CPC-05	CPC-06	CPC-07	CPC-05	CPC-06	CPC-07
Total Chlordane (alpha and gamma) (U = 0)	5	0.09	0.09	-	-	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U
PCB Aroclors (µg/L)											
Aroclor 1016		-	-	-	-	0.120 UJ	0.120 UJ	0.120 U	0.120 UJ	0.120 U	0.120 U
Aroclor 1221		-	-	-	-	0.120 UJ	0.120 UJ	0.120 U	0.120 UJ	0.120 U	0.120 U
Aroclor 1232		-	-	-	-	0.120 UJ	0.120 UJ	0.120 U	0.120 UJ	0.120 U	0.120 U
Aroclor 1242		-	-	-	-	0.120 UJ	0.120 UJ	0.120 U	0.120 UJ	0.120 U	0.120 U
Aroclor 1248		-	-	-	-	0.120 UJ	0.120 UJ	0.120 U	0.120 UJ	0.120 U	0.120 U
Aroclor 1254		-	-	-	-	0.120 UJ	0.120 UJ	0.120 U	0.120 UJ	0.120 U	0.120 U
Aroclor 1260		-	-	-	-	0.120 UJ	0.120 UJ	0.120 U	0.120 UJ	0.120 U	0.120 U
Aroclor 1262		-	-	-	-	0.120 UJ	0.120 UJ	0.120 U	-	-	-
Aroclor 1268		-	-	-	-	0.120 UJ	0.120 UJ	0.120 U	-	-	-
Total PCB Aroclors (U = 0)	1	10	-	0.033		0.120 UJ	0.120 UJ	0.120 U	0.120 UJ	0.120 U	0.120 U
Total Petroleum Hydrocarbons (mg/L)											
Total petroleum hydrocarbons (C6-C35)	0.1	-	-	-	NA	2.02 U	2.04 U	2.04 U	2.04 UJ	2.06 UJ	2.06 UJ

Notes:

a. TSWQS- <https://www.tceq.texas.gov/waterquality/standards/2010standards.html>

b. EPA WQC- <https://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm>

c. NOAA- <http://response.restoration.noaa.gov/cpr/sediment/squirt/squirt.html>

d. Region 6- <http://www.epa.gov/region6/water/ecopro/watershd/standard/index.htm>

e. Based on temperature, salinity, and pH of the area and Ambient Water Quality Criteria for Ammonia (Saltwater)- 1989. EPA 440/5-88-004.

 Chosen screening benchmark

All non-detect results are reported at the reporting limit except results for high resolution methods, which are reported at the method detection limit.

Calculated values have been rounded to laboratory-reported significant digits.

Chlordane screening levels are applied to total chlordane as specified by the selected TSWQS (Marie Acute) criteria.

Endosulfan screening levels are applied individually to all endosulfan and endosulfan derivatives as specified by the selected TSWQS (Marie Acute) criteria.

Endrin screening levels are applied to endrin and no derivatives as specified by the selected TSWQS (Marie Acute) criteria.

Heptachlor screening levels are applied to heptachlor and no derivatives as specified by the selected TSWQS (Marie Acute) criteria.

Totals are calculated as the sum of all detected results (U=0). If all results are not detected, the highest reporting limit value is reported as the sum.

Total Chlordane (alpha and gamma) is the total of Chlordane, alpha- (Chlordane, cis-) and Chlordane, gamma-.

Total DDX is the sum of 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT.

Total PAHs is the sum of acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(g,h,i)perylene, benzo(b,k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-c,d)pyrene, naphthalene, phenanthrene, and pyrene.

Total PCB Aroclors is the total of all PCB Aroclors listed in this table.

USEPA Stage 2A data validation was completed by Anchor QEA.

6.3.3 *Alternative E*

Alternative E is represented by location CPC-08. The site water and elutriate samples did not exceed any water quality criteria for the sample location within Alternative E (Table 11).

Table 10

Concentrations of Analytes in Surface Water Samples and Standard Elutriate Samples – Alternative E

Analyte	TDL	Screening Benchmarks				Cedar Port Surface Water	Cedar Port Elutriate
		TSWQS (Marine Acute) ^a	EPA WQC (Marine Acute) ^b	NOAA (Marine Acute) ^c	Region 6 (Marine Acute) ^d	CPC-08	CPC-08
Conventional Parameters (mg/L)							
Ammonia as nitrogen	0.03	1.5 ^e	-	-	-	0.0340 J	0.28
Total organic carbon	0.1	-	-	-	-	5.15	6.26
Metals (µg/L)							
Mercury	0.2	2.1	-	1.8	1.1	0.200 U	0.200 U
Metals, Dissolved (µg/L)							
Antimony	3	-	-	1,500	500	5.00 U	2.78 J
Arsenic	1	149	69	69	78	1.67 J	3.19
Cadmium	1	40	40	40	-	5.00 U	5.00 U
Chromium	1	-	-	-	103	15.0 U	0.570 J
Copper	1	13.5	4.8	4.8	3.6	5.0 U	5.0 U
Lead	1	133	210	210	5.3	2.50 U	2.50 U
Nickel	1	118	74	74	13.1	1.51 J	1.78 J
Silver	1	2	1.9	0.95	-	2.50 U	2.50 U
Zinc	1	92.7	90	90	84.2	10 U	8.27 J
Semivolatile Organics (µg/L)							
1,2,4-Trichlorobenzene	0.9	-	-	160	22	0.556 U	0.562 U
1,2-Dichlorobenzene	0.8	-	-	1,970	591	0.556 U	0.562 U
1,3-Dichlorobenzene	0.9	-	-	1,970	142	0.556 U	0.562 U
1,4-Dichlorobenzene	1	-	-	1,970	99	0.556 U	0.562 U
2,4-Dichlorophenol	1	-	-	-	-	1.11 U	1.12 U
2,4-Dimethylphenol	10	-	-	-	-	1.11 U	1.12 U

Analyte	TDL	Screening Benchmarks				Cedar Port Surface Water	Cedar Port Elutriate
		TSWQS (Marine Acute) ^a	EPA WQC (Marine Acute) ^b	NOAA (Marine Acute) ^c	Region 6 (Marine Acute) ^d	CPC-08	CPC-08
2,4-Dinitrophenol	5	-	-	4,850	1,330	4.45 U	4.50 U
Diethyl phthalate	1	-	-	2,944	884	0.592 U	0.562 U
Hexachlorobenzene	0.4	-	-	160	-	0.556 U	0.562 U
Pentachlorophenol	50	15.1	13	13	9.6	1.11 U	1.12 U
Phenol	10	-	-	5,800	5,500	2.75 U	3.17 U
Polycyclic Aromatic Hydrocarbons (µg/L)							
Acenaphthene	0.75	-	-	970	40.4	0.556 U	0.562 U
Acenaphthylene	1	-	-	300	-	0.556 U	0.562 U
Anthracene	0.6	-	-	300	0.18	0.556 U	0.562 U
Benzo(a)anthracene	0.4	-	-	300	-	0.556 U	0.562 U
Benzo(a)pyrene	0.3	-	-	300	-	0.556 U	0.562 U
Benzo(b)fluoranthene	0.6	-	-	300	-	0.556 U	0.562 U
Benzo(g,h,i)perylene	1.2	-	-	300	-	0.556 U	0.562 U
Benzo(k)fluoranthene	0.6	-	-	300	-	0.556 U	0.562 U
Chrysene	0.3	-	-	300	-	0.556 U	0.562 U
Dibenzo(a,h)anthracene	1.3	-	-	300	-	0.556 U	0.562 U
Fluoranthene	0.9	-	-	40	2.96	0.556 U	0.562 U
Fluorene	0.6	-	-	300	50	0.556 U	0.562 U
Indeno(1,2,3-c,d)pyrene	1.2	-	-	300	-	0.556 U	0.562 U
Naphthalene	0.8	-	-	-	250	0.556 U	0.562 U
Phenanthrene	0.5	7.7	-	7.7	4.6	0.556 U	0.562 U
Pyrene	1.5	-	-	300	0.24	0.556 U	0.562 U
Total PAHs (U = 0)		-	-	-	-	0.556 U	0.562 U

Analyte	TDL	Screening Benchmarks				Cedar Port Surface Water	Cedar Port Elutriate
		TSWQS (Marine Acute) ^a	EPA WQC (Marine Acute) ^b	NOAA (Marine Acute) ^c	Region 6 (Marine Acute) ^d	CPC-08	CPC-08
Pesticides (µg/L)							
4,4'-DDD (p,p'-DDD)	0.1	0.13	-	3.6	0.025	0.00599 UJ	0.00600 UJ
4,4'-DDE (p,p'-DDE)	0.1	-	-	14	0.14	0.00599 UJ	0.00600 UJ
4,4'-DDT (p,p'-DDT)	0.1	-	0.13	0.065	0.001	0.00599 UJ	0.00600 UJ
Aldrin	0.03	1.3	1.3	0.65	0.13	0.00599 UJ	0.00600 UJ
Chlordane		0.03	0.09	0.09	-	0.00599 UJ	0.00600 UJ
Chlordane, alpha- (Chlordane, cis-)	0.03	-	-	-	-	0.00599 UJ	0.00600 UJ
Chlordane, gamma-	0.03	-	-	-	-	0.00599 UJ	0.00600 UJ
Dieldrin	0.03	0.71	0.71	0.355	0.002	0.00599 UJ	0.00600 UJ
Endosulfan sulfate	0.1	0.034	0.034	0.017	-	0.00599 UJ	0.00600 UJ
Endosulfan, alpha- (I)	0.1	0.034	0.034	0.017	-	0.00599 UJ	0.00600 UJ
Endosulfan, beta (II)	0.1	0.034	0.034	0.017	-	0.00599 UJ	0.00600 UJ
Endrin	0.1	0.037	0.037	0.0185	0.002	0.00599 UJ	0.00600 UJ
Endrin aldehyde	0.1	-	-	-	-	0.00599 UJ	0.00600 UJ
Endrin ketone	0.1	-	-	-	-	0.00599 UJ	0.00600 UJ
Heptachlor	0.1	0.053	0.053	0.0265	0.004	0.00599 UJ	0.00600 UJ
Heptachlor epoxide	0.1	-	-	-	-	0.00599 UJ	0.00600 UJ
Hexachlorocyclohexane (BHC), alpha-		-	-	-	-	0.00599 UJ	0.00600 UJ
Hexachlorocyclohexane (BHC), beta-		-	-	-	-	0.00599 UJ	0.00600 UJ
Hexachlorocyclohexane (BHC), delta-		-	-	-	-	0.00599 UJ	0.00600 UJ

Analyte	TDL	Screening Benchmarks				Cedar Port Surface Water	Cedar Port Elutriate
		TSWQS (Marine Acute) ^a	EPA WQC (Marine Acute) ^b	NOAA (Marine Acute) ^c	Region 6 (Marine Acute) ^d	CPC-08	CPC-08
Hexachlorocyclohexane (BHC), gamma- (Lindane)		-	0.16	0.08	-	0.00599 UJ	0.00600 UJ
Toxaphene	0.5	0.21	90	0.21	0.0002	0.300 UJ	0.300 UJ
Sum DDX (U = 0 max limit)		-	-	-	-	0.00599 UJ	0.00600 UJ
Total Chlordane (alpha and gamma) (U = 0)	5	0.09	0.09	-	-	0.00599 UJ	0.00600 UJ
PCB Aroclors (µg/L)							
Total PCB Aroclors (U = 0)	1	10	-	0.033		0.120 UJ	0.120 UJ
Total Petroleum Hydrocarbons (mg/L)							
Diesel range organics (C12 – C28)	0.01	-	-	-	-	2.107 U	2.0425 U
Motor oil range hydrocarbons (C28-C35)	0.01	-	-	-	-	2.107 U	2.0425 U
Total petroleum hydrocarbons (C6-C35)	0.01	-	-	-	NA	2.107 U	2.0425 U
Total petroleum hydrocarbons (C6-C12)	0.01	-	-	-	-	2.107 U	2.0425 U

Notes:

a. TSWQS- <https://www.tceq.texas.gov/waterquality/standards/2010standards.html>

b. EPA WQC- <https://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm>

c. NOAA- <http://response.restoration.noaa.gov/cpr/sediment/squirt/squirt.html>

d. Region 6- <http://www.epa.gov/region6/water/ecopro/watershd/standard/index.htm>

e. Based on temperature, salinity, and pH of the area and Ambient Water Quality Criteria for Ammonia (Saltwater)- 1989. EPA 440/5-88-004.

 Chosen screening benchmark

Bold indicates a detected result.

All non-detect results are reported at the reporting limit except results for high resolution methods, which are reported at the method detection limit.

Calculated values have been rounded to laboratory-reported significant digits

Chlordane screening levels are applied to total chlordane as specified by the selected TSWQS (Marie Acute) criteria.

Endosulfan screening levels are applied individually to all endosulfan and endosulfan derivatives as specified by the selected TSWQS (Marie Acute) criteria.

Endrin screening levels are applied to endrin and no derivatives as specified by the selected TSWQS (Marie Acute) criteria.

Heptachlor screening levels are applied to heptachlor and no derivatives as specified by the selected TSWQS (Marie Acute) criteria.

Totals are calculated as the sum of all detected results (U=0). If all results are not detected, the highest reporting limit value is reported as the sum.

Total Chlordane (alpha and gamma) is the total of Chlordane, alpha- (Chlordane, cis-) and Chlordane, gamma-.

Total DDX is the sum of 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT.

Total PAHs is the sum of acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(g,h,i)perylene, benzo(b,k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-c,d)pyrene, naphthalene, phenanthrene, and pyrene.

Total PCB Aroclors is the total of all PCB Aroclors listed in this table.

USEPA Stage 2A data validation was completed by Anchor QEA.

6.3.4 Beneficial Use Placement Area

The Beneficial Use Placement Area is represented by location CPC-09. The site water and elutriate samples did not exceed any water quality criteria for the sample location within the beneficial use PA (Table 12).

Table 11

Concentrations of Analytes in Surface Water Samples and Standard Elutriate Samples – Beneficial Use Placement Area

Analyte	TDL	Screening Benchmarks				Cedar Port Surface Water	Cedar Port Elutriate
		TSWQS (Marine Acute) ^a	EPA WQC (Marine Acute) ^b	NOAA (Marine Acute) ^c	Region 6 (Marine Acute) ^d	CPC-09	CPC-09
Conventional Parameters (mg/L)							
Ammonia as nitrogen	0.03	1.5 ^e	-	-	-	0.0200 J	0.835
Total organic carbon	0.1	-	-	-	-	5.32	6.08
Metals (µg/L)							
Mercury	0.2	2.1	-	1.8	1.1	0.200 U	0.200 U
Metals, Dissolved (µg/L)							
Antimony	3	-	-	1,500	500	5.00 U	3.30 J
Arsenic	1	149	69	69	78	1.62 J	9.06
Cadmium	1	40	40	40	-	5.00 U	5.00 U
Chromium	1	-	-	-	103	15.0 U	15.0 U
Copper	1	13.5	4.8	4.8	3.6	1.31 J	5.00 U
Lead	1	133	210	210	5.3	2.50 U	2.50 U
Nickel	1	118	74	74	13.1	1.54 J	2.09 J
Silver	1	2	1.9	0.95	-	2.50 U	2.50 U
Zinc	1	92.7	90	90	84.2	10 U	10.0 U
Semivolatile Organics (µg/L)							
1,2,4-Trichlorobenzene	0.9	-	-	160	22	0.556 U	0.562 U
1,2-Dichlorobenzene	0.8	-	-	1,970	591	0.556 U	0.562 U
1,3-Dichlorobenzene	0.9	-	-	1,970	142	0.556 U	0.562 U
1,4-Dichlorobenzene	1	-	-	1,970	99	0.556 U	0.562 U
2,4-Dichlorophenol	1	-	-	-	-	1.11 U	1.12 U
2,4-Dimethylphenol	10	-	-	-	-	1.11 U	1.12 U

Analyte	TDL	Screening Benchmarks				Cedar Port Surface Water	Cedar Port Elutriate
		TSWQS (Marine Acute) ^a	EPA WQC (Marine Acute) ^b	NOAA (Marine Acute) ^c	Region 6 (Marine Acute) ^d	CPC-09	CPC-09
2,4-Dinitrophenol	5	-	-	4,850	1,330	4.45 U	4.50 U
Diethyl phthalate	1	-	-	2,944	884	0.592 U	0.562 U
Hexachlorobenzene	0.4	-	-	160	-	0.556 U	0.562 U
Pentachlorophenol	50	15.1	13	13	9.6	1.11 U	1.12 U
Phenol	10	-	-	5,800	5,500	2.75 U	3.32 U
Polycyclic Aromatic Hydrocarbons (µg/L)							
Acenaphthene	0.75	-	-	970	40.4	0.556 U	0.562 U
Acenaphthylene	1	-	-	300	-	0.556 U	0.562 U
Anthracene	0.6	-	-	300	0.18	0.556 U	0.562 U
Benzo(a)anthracene	0.4	-	-	300	-	0.556 U	0.562 U
Benzo(a)pyrene	0.3	-	-	300	-	0.556 U	0.562 U
Benzo(b)fluoranthene	0.6	-	-	300	-	0.556 U	0.562 U
Benzo(g,h,i)perylene	1.2	-	-	300	-	0.556 U	0.562 U
Benzo(k)fluoranthene	0.6	-	-	300	-	0.556 U	0.562 U
Chrysene	0.3	-	-	300	-	0.556 U	0.562 U
Dibenzo(a,h)anthracene	1.3	-	-	300	-	0.556 U	0.562 U
Fluoranthene	0.9	-	-	40	2.96	0.556 U	0.562 U
Fluorene	0.6	-	-	300	50	0.556 U	0.562 U
Indeno(1,2,3-c,d)pyrene	1.2	-	-	300	-	0.556 U	0.562 U
Naphthalene	0.8	-	-	-	250	0.556 U	0.562 U
Phenanthrene	0.5	7.7	-	7.7	4.6	0.556 U	0.562 U
Pyrene	1.5	-	-	300	0.24	0.556 U	0.562 U
Total PAHs (U = 0)		-	-	-	-	0.556 U	0.562 U

Analyte	TDL	Screening Benchmarks				Cedar Port Surface Water	Cedar Port Elutriate
		TSWQS (Marine Acute) ^a	EPA WQC (Marine Acute) ^b	NOAA (Marine Acute) ^c	Region 6 (Marine Acute) ^d	CPC-09	CPC-09
Pesticides (µg/L)							
4,4'-DDD (p,p'-DDD)	0.1	0.13	-	3.6	0.025	0.00599 UJ	0.00600 UJ
4,4'-DDE (p,p'-DDE)	0.1	-	-	14	0.14	0.00599 UJ	0.00600 UJ
4,4'-DDT (p,p'-DDT)	0.1	-	0.13	0.065	0.001	0.00599 UJ	0.00600 UJ
Aldrin	0.03	1.3	1.3	0.65	0.13	0.00599 UJ	0.00600 UJ
Chlordane		0.03	0.09	0.09	-	0.00599 UJ	0.00600 UJ
Chlordane, alpha- (Chlordane, cis-)	0.03	-	-	-	-	0.00599 UJ	0.00600 UJ
Chlordane, gamma-	0.03	-	-	-	-	0.00599 UJ	0.00600 UJ
Dieldrin	0.03	0.71	0.71	0.355	0.002	0.00599 UJ	0.00600 UJ
Endosulfan sulfate	0.1	0.034	0.034	0.017	-	0.00599 UJ	0.00600 UJ
Endosulfan, alpha- (I)	0.1	0.034	0.034	0.017	-	0.00599 UJ	0.00600 UJ
Endosulfan, beta (II)	0.1	0.034	0.034	0.017	-	0.00599 UJ	0.00600 UJ
Endrin	0.1	0.037	0.037	0.0185	0.002	0.00599 UJ	0.00600 UJ
Endrin aldehyde	0.1	-	-	-	-	0.00599 UJ	0.00600 UJ
Endrin ketone	0.1	-	-	-	-	0.00599 UJ	0.00600 UJ
Heptachlor	0.1	0.053	0.053	0.0265	0.004	0.00599 UJ	0.00600 UJ
Heptachlor epoxide	0.1	-	-	-	-	0.00599 UJ	0.00600 UJ
Hexachlorocyclohexane (BHC), alpha-		-	-	-	-	0.00599 UJ	0.00600 UJ
Hexachlorocyclohexane (BHC), beta-		-	-	-	-	0.00599 UJ	0.00600 UJ
Hexachlorocyclohexane (BHC), delta-		-	-	-	-	0.00599 UJ	0.00600 UJ

Analyte	TDL	Screening Benchmarks				Cedar Port Surface Water	Cedar Port Elutriate
		TSWQS (Marine Acute) ^a	EPA WQC (Marine Acute) ^b	NOAA (Marine Acute) ^c	Region 6 (Marine Acute) ^d	CPC-09	CPC-09
Hexachlorocyclohexane (BHC), gamma- (Lindane)		-	0.16	0.08	-	0.00599 UJ	0.00600 UJ
Toxaphene	0.5	0.21	90	0.21	0.0002	0.300 UJ	0.300 UJ
Sum DDX (U = 0 max limit)		-	-	-	-	0.00599 UJ	0.00600 UJ
Total Chlordane (alpha and gamma) (U = 0)	5	0.09	0.09	-	-	0.00599 UJ	0.00600 UJ
PCB Aroclors (µg/L)							
Total PCB Aroclors (U = 0)	1	10	-	0.033	-	0.120 UJ	0.120 UJ
Total Petroleum Hydrocarbons (mg/L)							
Diesel range organics (C12 – C28)	0.01	-	-	-	-	2.107 U	2.0425 U
Motor oil range hydrocarbons (C28-C35)	0.01	-	-	-	-	2.107 U	2.0425 U
Total petroleum hydrocarbons (C6-C35)	0.01	-	-	-	NA	2.107 U	2.0425 U
Total petroleum hydrocarbons (C6-C12)	0.01	-	-	-	-	2.107 U	2.0425 U

Notes:

a. TSWQS- <https://www.tceq.texas.gov/waterquality/standards/2010standards.html>

b. EPA WQC- <https://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm>

c. NOAA- <http://response.restoration.noaa.gov/cpr/sediment/squirt/squirt.html>

d. Region 6- <http://www.epa.gov/region6/water/ecopro/watershd/standard/index.htm>

e. Based on temperature, salinity, and pH of the area and Ambient Water Quality Criteria for Ammonia (Saltwater)- 1989. EPA 440/5-88-004.

 Chosen screening benchmark

Bold indicates a detected result

All non-detect results are reported at the reporting limit except results for high resolution methods, which are reported at the method detection limit.

Calculated values have been rounded to laboratory-reported significant digits

Chlordane screening levels are applied to total chlordane as specified by the selected TSWQS (Marie Acute) criteria.

Endosulfan screening levels are applied individually to all endosulfan and endosulfan derivatives as specified by the selected TSWQS (Marie Acute) criteria.

Endrin screening levels are applied to endrin and no derivatives as specified by the selected TSWQS (Marie Acute) criteria.

Heptachlor screening levels are applied to heptachlor and no derivatives as specified by the selected TSWQS (Marie Acute) criteria.

Totals are calculated as the sum of all detected results (U=0). If all results are not detected, the highest reporting limit value is reported as the sum.

Total Chlordane (alpha and gamma) is the total of Chlordane, alpha- (Chlordane, cis-) and Chlordane, gamma-.

Total DDX is the sum of 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT.

Total PAHs is the sum of acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(g,h,i)perylene, benzo(b,k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-c,d)pyrene, naphthalene, phenanthrene, and pyrene.

Total PCB Aroclors is the total of all PCB Aroclors listed in this table.

USEPA Stage 2A data validation was completed by Anchor QEA.

6.4 Summary

An examination of Tables 8 through 12 indicates the following:

1. Elutriate concentrations for ammonia, TOC, and arsenic were consistently higher than site water concentrations.
2. No site water samples exceeded water quality criteria for any of the analytes.
3. The water quality criterion for ammonia as nitrogen was the only water quality criterion that was exceeded in the elutriate samples. The criterion was exceeded in elutriate samples from location CPC-01 (Alternative B).
4. The majority of analytes were not detected in site water and elutriate samples.

Although elutriate concentrations of ammonia exceeded the Texas State Water Quality Standards (TSWQS) as calculated based on temperature, salinity, and pH (USEPA 1989) in three samples, the increased ammonia results in elutriate samples are a short-lived phenomenon during dredging and disposal. Ammonia toxicity changes as ephemeral environmental conditions such as temperature, salinity, dissolved oxygen, and pH change. Additionally, ammonia rapidly oxidizes in well-oxygenated water, and initial mixing during dredging, as well as oxidation, would reduce the ammonia concentration in the zone of initial dilution. Therefore, dredging and placement of dredged material is not anticipated to violate any water quality standards.

6.5 Sediment Sample Results

Sediment concentrations of tested analytes are presented in Table 13 through 17. The antimony results for samples CPC-01 through CPC-07 were rejected because the percent recovery in the Matrix Spike was above the required limit. Antimony is excluded from the following results discussion. The Data Validation Report in Attachment 5 provides further explanation of the antimony rejection.

There are no enforceable sediment quality criteria or standards with which to compare concentrations in the sediment. However, there are several different guidelines that are used to look for a cause for concern in sediment samples; one is the ERL (Buchman 2008). ERM were also established to represent concentrations above which adverse biological effects are probable. Sample concentrations are also compared to the Human Health Protective Concentration Levels (PCLs), provided by TCEQ as part of the TRRP (30 TAC §350), in the event that dredged material is placed in an upland PA (Hauch 2012).

6.5.1 *Alternative B*

Alternative B is represented by locations CPC-01 and CPC-02. CPC-01 was 35.3% sand, 48.9% silt, and 15.8% clay. CPC-02 was 82.8% sand, 13.3% silt, and 3.9% clay. Ammonia was detected at all screening locations. All metals were detected in both CPC-01 and CPC-02 in low concentrations; none

exceeded any sediment screening benchmarks. Four dioxins/furan congeners were detected in low concentrations at both locations. One SVOC was detected in a low concentration at CPC-02. No PAHs, pesticides, PCB Aroclors, or TPHs were detected (Table 13). No screening benchmarks were exceeded for any of the analytes.

Table 12
Concentrations of Analytes in Sediment Samples: Alternative B

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment	
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-01	CPC-02
Conventional Parameters (mg/kg)						
Ammonia as nitrogen	0.1	-	-	-	28.6	12.4 J
Conventional Parameters (%)						
Moisture, percent	-	-	-	-	40.5	22.3
Total organic carbon	0.1	-	-	-	0.45	0.17
Total solids	0.1	-	-	-	59.6	76.3
Grain Size (%)						
Clay	-	-	-	-	15.8	3.9
Gravel	-	-	-	-	0 U	0 U
Sand	-	-	-	-	35.3	82.8
Silt	-	-	-	-	48.9	13.3
Metals (mg/kg)						
Antimony	2.5	-	-	15	R	R
Arsenic	1	8.2	70	24	3.58	1.81
Cadmium	1	1.2	10	51	0.112	0.0438 J
Chromium	1	81	370	27,000	9.15	3.42
Copper	10	34	270	1,300	7.35	2.63
Lead	10	46.7	218	500	14.7	4.89
Mercury	0.1	0.15	0.71	6	0.0136 J	0.0261 J
Nickel	10	20.9	51.6	840	9.47	3.73
Silver	1	1	3.7	97	0.0495	0.0198 J
Zinc	10	150	410	9,900	34.8	11.3

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment	
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-01	CPC-02
Semivolatile Organics (µg/kg)						
1,2,4-Trichlorobenzene	10	-	-	70,000	4.09 UJ	3.27 U
1,2-Dichlorobenzene	20	-	-	390,000	4.09 UJ	3.27 U
1,3-Dichlorobenzene	20	-	-	62,000	4.09 UJ	3.27 U
1,4-Dichlorobenzene	20	-	-	250,000	4.09 UJ	3.27 U
2,4-Dichlorophenol	120	-	-	200,000	8.19 UJ	6.55 U
2,4-Dimethylphenol	20	-	-	1,300,000	8.19 UJ	6.55 U
2,4-Dinitrophenol	500	-	-	130,000	8.19 UJ	6.55 UJ
Benzo(b,k)fluoranthene	20	-	-	-	4.09 UJ	3.27 U
Diethyl phthalate	-	-	-	53,000,000	4.09 UJ	3.27 U
Hexachlorobenzene	10	-	-	1,000	4.09 UJ	3.27 U
Pentachlorophenol	100	-	-	730	8.19 UJ	6.55 U
Phenol	100	-	-	950,000	8.19 UJ	5.58 J
Polycyclic Aromatic Hydrocarbons (µg/kg)						
Acenaphthene	20	16	500	3,000,000	4.09 UJ	3.27 U
Acenaphthylene	20	44	640	3,800,000	4.09 UJ	3.27 U
Anthracene	20	85	1,100	18,000,000	4.09 UJ	3.27 U
Benzo(a)anthracene	20	261	1,600	41,000	4.09 UJ	3.27 U
Benzo(a)pyrene	20	430	1,600	4,100	4.09 UJ	3.27 U
Benzo(g,h,i)perylene	20	-	-	1,800,000	4.09 UJ	3.27 U
Chrysene	20	384	2,800	4,100,000	4.09 UJ	3.27 U
Dibenzo(a,h)anthracene	50	63	260	4,000	4.09 UJ	3.27 U
Fluoranthene	20	600	5,100	2,300,000	4.09 UJ	3.27 U
Fluorene	20	19	540	2,300,000	4.09 UJ	3.27 U

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment	
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-01	CPC-02
Indeno(1,2,3-c,d)pyrene	20	-	-	42,000	4.09 UJ	3.27 U
Naphthalene	20	160	2,100	120,000	4.09 UJ	3.27 U
Phenanthrene	20	240	1,500	1,700,000	4.09 UJ	3.27 U
Pyrene	20	665	2,600	1,700,000	4.09 UJ	3.27 U
Total PAHs (U = 0)	-	4,022	44,792	-	4.09 UJ	3.27 U
Pesticides (µg/kg)						
4,4'-DDD (p,p'-DDD)	5	-	-	14,000	1.68 U	1.31 U
4,4'-DDE (p,p'-DDE)	5	2.2	27	10,000	1.68 U	1.31 U
4,4'-DDT (p,p'-DDT)	5	-	-	5,400	1.68 U	1.31 U
Aldrin	5	-	-	50	1.68 U	1.31 U
Chlordane, alpha- (Chlordane, cis-)	5	-	-	13,000	1.68 U	1.31 U
Chlordane, gamma-	5	-	-	7,300	1.68 U	1.31 U
Dieldrin	5	0.02	8	150	1.68 U	1.31 U
Endosulfan sulfate	5	-	-	380,000	1.68 U	1.31 U
Endosulfan, alpha- (I)	5	-	-	91,000	1.68 U	1.31 U
Endosulfan, beta (II)	5	-	-	270,000	1.68 U	1.31 U
Endrin	5	-	-	9,000	1.68 U	1.31 U
Endrin aldehyde	5	-	-	19,000	1.68 U	1.31 U
Endrin ketone	5	-	-	19,000	1.68 U	1.31 U
Heptachlor	5	-	-	130	1.68 U	1.31 U
Heptachlor epoxide	5	-	-	240	1.68 U	1.31 U
Hexachlorocyclohexane (BHC), alpha-	-	-	-	250	1.68 U	1.31 U
Hexachlorocyclohexane (BHC), beta-	-	-	-	920	1.68 U	1.31 U
Hexachlorocyclohexane (BHC), delta-	-	-	-	2,900	1.68 U	1.31 U

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment	
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-01	CPC-02
Hexachlorocyclohexane (BHC), gamma- (Lindane)	-	-	-	1,100	1.68 U	1.31 U
Toxaphene	5	-	-	1,200	25.2 U	19.6 U
Sum DDX (U = 0)	-	1.58	46.1	-	1.68 U	1.31 U
Dioxin Furans (ng/kg)						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	5	-	-	-	3.7 J	1.2 U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	5	-	-	-	190	55
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	2.5	-	-	-	0.19 U	0.31 U
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	2.5	-	-	-	9.3 J	4.4 J
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	2.5	-	-	-	0.29 U	0.46 U
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	2.5	-	-	-	0.26 U	0.17 U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	2.5	-	-	-	0.59 U	0.49 U
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	2.5	-	-	-	0.22 U	0.15 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	2.5	-	-	-	0.51 U	0.42 U
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	2.5	-	-	-	0.38 U	0.33 J
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	2.5	-	-	-	0.76 U	0.50 U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	2.5	-	-	-	0.28 U	0.20 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	2.5	-	-	-	0.20 U	0.23 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	2.5	-	-	-	0.33 J	0.18 U
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	2.5	-	-	-	0.30 U	0.21 U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	0.5	-	-	-	0.22 U	0.28 U
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	0.5	-	-	1,000	0.36 U	0.25 U
PCB Aroclors (µg/kg)						
Aroclor 1016	-	-	-	-	3.36 U	2.62 U
Aroclor 1221	-	-	-	-	3.36 U	2.62 U

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment	
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-01	CPC-02
Aroclor 1232	-	-	-	-	3.36 U	2.62 U
Aroclor 1242	-	-	-	-	3.36 U	2.62 U
Aroclor 1248	-	-	-	-	3.36 U	2.62 U
Aroclor 1254	-	-	-	-	3.36 U	2.62 U
Aroclor 1260	-	-	-	-	3.36 U	2.62 U
Aroclor 1262	-	-	-	-	3.36 U	2.62 U
Aroclor 1268	-	-	-	-	3.36 U	2.62 U
Total PCB Aroclors (U = 0)	1	22.7	180	1,100	3.36 U	2.62 U
Total Petroleum Hydrocarbons (mg/kg)						
Total petroleum hydrocarbons (C6-C35)	5	-	-	-	42.0 U	32.2 U

Notes:

a. NOAA- <http://response.restoration.noaa.gov/cpr/sediment/squirt/squirt.html>

b. <https://www.tceq.texas.gov/remediation/trrp/trrppcls.html>

Chosen screening benchmark

Bold indicates detected result

All non-detect results are reported at the reporting limit except results for high resolution methods, which are reported at the method detection limit.

Calculated values have been rounded to laboratory-reported significant digits.

Totals are calculated as the sum of all detected results (U=0). If all results are not detected, the highest reporting limit value is reported as the sum.

Total PAHs is the sum of acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(g,h,i)perylene, benzo(b,k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-c,d)pyrene, naphthalene, phenanthrene, and pyrene.

Total PCB Aroclors is the total of all PCB Aroclors listed in this table.

Total DDX is the sum of 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT.

USEPA Stage 2A data validation was completed by Anchor QEA.

6.5.2 *Alternative D*

Alternative D is represented by locations CPC-05, CPC-06, and CPC-07. Samples from Alternative D were 56.9% silt. Sand and clay were also present at 26.1% and 16.9%, respectively. Ammonia was detected in all samples. All metals were detected at CPC-05, CPC-06, and CPC-07 in low concentrations, none of which exceeded any sediment screening benchmarks. Three dioxins/furan congeners were detected in low concentrations at CPC-05 and CPC-06. Four dioxins/furan congeners were detected in low concentrations at CPC-07. One SVOC, phenol, was detected at low concentrations at all three locations. PAHs, pesticides, PCB Aroclors, and TPHs were not detected in Alternative D samples (Table 14). No screening benchmarks for any of the analytes were exceeded.

Table 13
Concentrations of Analytes in Sediment Samples: Alternative D

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment		
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-05	CPC-06	CPC-07
Conventional Parameters (mg/kg)							
Ammonia as nitrogen	0.1	-	-	-	36	23	29.7
Conventional Parameters (%)							
Moisture, percent	-	-	-	-	40.3	47	48.7
Total organic carbon	0.1	-	-	-	0.58	0.52	0.6
Total solids	0.1	-	-	-	57.4	53.5	50.8
Grain Size (%)							
Clay	-	-	-	-	17.3	16.4	17.1
Gravel	-	-	-	-	0 U	0 U	0 U
Sand	-	-	-	-	24.6	27	26.7
Silt	-	-	-	-	58	56.6	56.2
Metals (mg/kg)							
Antimony	2.5	-	-	15	R	R	R
Arsenic	1	8.2	70	24	5.69	5.93	6
Cadmium	1	1.2	10	51	0.11	0.101	0.113
Chromium	1	81	370	27,000	8.62	8.66	8.9
Copper	10	34	270	1,300	7.37	7.9	8.6
Lead	10	46.7	218	500	17	15.5	20
Mercury	0.1	0.15	0.71	6	0.0506 J	0.0271 J	0.0447 J
Nickel	10	20.9	51.6	840	10.2	10.8	11.1
Silver	1	1	3.7	97	0.0491	0.0509	0.0516
Zinc	10	150	410	9,900	34.9	38.1	38.3

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment		
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-05	CPC-06	CPC-07
Semivolatile Organics (µg/kg)							
1,2,4-Trichlorobenzene	10	-	-	70,000	4.35 U	4.67 UJ	4.92 UJ
1,2-Dichlorobenzene	20	-	-	390,000	4.35 U	4.67 UJ	4.92 UJ
1,3-Dichlorobenzene	20	-	-	62,000	4.35 U	4.67 UJ	4.92 UJ
1,4-Dichlorobenzene	20	-	-	250,000	4.35 U	4.67 UJ	4.92 UJ
2,4-Dichlorophenol	120	-	-	200,000	8.71 U	9.35 U	9.84 U
2,4-Dimethylphenol	20	-	-	1,300,000	8.71 U	9.35 U	9.84 U
2,4-Dinitrophenol	500	-	-	130,000	8.71 UJ	9.35 UJ	9.84 UJ
Benzo(b,k)fluoranthene	20	-	-	-	4.35 U	4.67 UJ	4.92 UJ
Diethyl phthalate	-	-	-	53,000,000	4.35 U	4.67 UJ	4.92 UJ
Hexachlorobenzene	10	-	-	1,000	4.35 U	4.67 UJ	4.92 UJ
Pentachlorophenol	100	-	-	730	8.71 U	9.35 U	9.84 U
Phenol	100	-	-	950,000	5.99 J	5.00 J	6.48 J
Polycyclic Aromatic Hydrocarbons (µg/kg)							
Acenaphthene	20	16	500	3,000,000	4.35 U	4.67 UJ	4.92 UJ
Acenaphthylene	20	44	640	3,800,000	4.35 U	4.67 UJ	4.92 UJ
Anthracene	20	85	1,100	18,000,000	4.35 U	4.67 UJ	4.92 UJ
Benzo(a)anthracene	20	261	1,600	41,000	4.35 U	4.67 UJ	4.92 UJ
Benzo(a)pyrene	20	430	1,600	4,100	4.35 U	4.67 UJ	4.92 UJ
Benzo(g,h,i)perylene	20	-	-	1,800,000	4.35 U	4.67 UJ	4.92 UJ
Chrysene	20	384	2,800	4,100,000	4.35 U	4.67 UJ	4.92 UJ
Dibenzo(a,h)anthracene	50	63	260	4,000	4.35 U	4.67 UJ	4.92 UJ
Fluoranthene	20	600	5,100	2,300,000	4.35 U	4.67 UJ	4.92 UJ
Fluorene	20	19	540	2,300,000	4.35 U	4.67 UJ	4.92 UJ

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment		
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-05	CPC-06	CPC-07
Indeno(1,2,3-c,d)pyrene	20	-	-	42,000	4.35 U	4.67 UJ	4.92 UJ
Naphthalene	20	160	2,100	120,000	4.35 U	4.67 UJ	4.92 UJ
Phenanthrene	20	240	1,500	1,700,000	4.35 U	4.67 UJ	4.92 UJ
Pyrene	20	665	2,600	1,700,000	4.35 U	4.67 UJ	4.92 UJ
Total PAHs (U = 0)	-	4,022	44,792	-	4.35 U	4.67 UJ	4.92 UJ
Pesticides (µg/kg)							
4,4'-DDD (p,p'-DDD)	5	-	-	14,000	1.74 U	1.87 U	1.97 U
4,4'-DDE (p,p'-DDE)	5	2.2	27	10,000	1.74 U	1.87 U	1.97 U
4,4'-DDT (p,p'-DDT)	5	-	-	5,400	1.74 U	1.87 U	1.97 U
Aldrin	5	-	-	50	1.74 U	1.87 U	1.97 U
Chlordane, alpha- (Chlordane, cis-)	5	-	-	13,000	1.74 U	1.87 U	1.97 U
Chlordane, gamma-	5	-	-	7,300	1.74 U	1.87 U	1.97 U
Dieldrin	5	0.02	8	150	1.74 U	1.87 U	1.97 U
Endosulfan sulfate	5	-	-	380,000	1.74 U	1.87 U	1.97 U
Endosulfan, alpha- (I)	5	-	-	91,000	1.74 U	1.87 U	1.97 U
Endosulfan, beta (II)	5	-	-	270,000	1.74 U	1.87 U	1.97 U
Endrin	5	-	-	9,000	1.74 U	1.87 U	1.97 U
Endrin aldehyde	5	-	-	19,000	1.74 U	1.87 U	1.97 U
Endrin ketone	5	-	-	19,000	1.74 U	1.87 U	1.97 U
Heptachlor	5	-	-	130	1.74 U	1.87 U	1.97 U
Heptachlor epoxide	5	-	-	240	1.74 U	1.87 U	1.97 U
Hexachlorocyclohexane (BHC), alpha-	-	-	-	250	1.74 U	1.87 U	1.97 U
Hexachlorocyclohexane (BHC), beta-	-	-	-	920	1.74 U	1.87 U	1.97 U
Hexachlorocyclohexane (BHC), delta-	-	-	-	2,900	1.74 U	1.87 U	1.97 U

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment		
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-05	CPC-06	CPC-07
Hexachlorocyclohexane (BHC), gamma- (Lindane)	-	-	-	1,100	1.74 U	1.87 U	1.97 U
Toxaphene	5	-	-	1,200	26.1 U	28.0 U	29.5 U
Sum DDX (U = 0)	-	1.58	46.1	-	1.74 U	1.87 U	1.97 U
Dioxin Furans (ng/kg)							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	5	-	-	-	1.5 U	2.2 U	4.8 J
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	5	-	-	-	520	240	880
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	2.5	-	-	-	0.25 U	0.96 U	1.3 J
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	2.5	-	-	-	24	8.8 U	36
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	2.5	-	-	-	0.38 U	0.44 U	0.59 U
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	2.5	-	-	-	0.34 U	0.28 U	0.43 U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	2.5	-	-	-	0.55 U	1.0 U	1.1 U
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	2.5	-	-	-	0.29 U	0.24 U	0.37 U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	2.5	-	-	-	0.47 U	0.90 U	0.98 U
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	2.5	-	-	-	0.48 U	0.41 U	0.62 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	2.5	-	-	-	0.91 U	1.3 U	1.2 U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	2.5	-	-	-	0.32 U	0.23 J	0.38 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	2.5	-	-	-	0.44 U	0.29 U	0.73 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	2.5	-	-	-	0.20 U	0.31 U	0.46 U
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	2.5	-	-	-	0.39 U	0.27 U	0.40 U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	0.5	-	-	-	1.2 J	1.1 J	0.99 U
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	0.5	-	-	1,000	0.66 U	0.38 U	0.36 U
PCB Aroclors (µg/kg)							
Aroclor 1016	-	-	-	-	3.48 U	3.74 U	3.94 U
Aroclor 1221	-	-	-	-	3.48 U	3.74 U	3.94 U

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment		
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-05	CPC-06	CPC-07
Aroclor 1232	-	-	-	-	3.48 U	3.74 U	3.94 U
Aroclor 1242	-	-	-	-	3.48 U	3.74 U	3.94 U
Aroclor 1248	-	-	-	-	3.48 U	3.74 U	3.94 U
Aroclor 1254	-	-	-	-	3.48 U	3.74 U	3.94 U
Aroclor 1260	-	-	-	-	3.48 U	3.74 U	3.94 U
Aroclor 1262	-	-	-	-	3.48 U	3.74 U	3.94 U
Aroclor 1268	-	-	-	-	3.48 U	3.74 U	3.94 U
Total PCB Aroclors (U = 0)	1	22.7	180	1,100	3.48 U	3.74 U	3.94 U
Total Petroleum Hydrocarbons (mg/kg)							
Total petroleum hydrocarbons (C6-C35)	5	-	-	-	41.9 U	47.2 U	48.7 U

Notes:

a. NOAA- <http://response.restoration.noaa.gov/cpr/sediment/squirt/squirt.html>

b. <https://www.tceq.texas.gov/remediation/trrp/trrppcls.html>

Chosen screening benchmark

Bold indicates a detected result.

All non-detect results are reported at the reporting limit except results for high resolution methods, which are reported at the method detection limit.

Calculated values have been rounded to laboratory-reported significant digits.

Totals are calculated as the sum of all detected results (U=0). If all results are not detected, the highest reporting limit value is reported as the sum.

Total PAHs is the sum of acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(g,h,i)perylene, benzo(b,k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-c,d)pyrene, naphthalene, phenanthrene, and pyrene.

Total PCB Aroclors is the total of all PCB Aroclors listed in this table.

Total DDX is the sum of 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT.

USEPA Stage 2A data validation was completed by Anchor QEA.

6.5.3 *Alternative E*

Alternative E is represented by location CPC-08. The sample from Alternative E was primarily silts, 56.5%, 27.7% sand, and 15.7% clay. Ammonia, some metals, PAHs, petroleum hydrocarbons, and two dioxins/furan congeners were detected in low concentrations, none of which exceeded any sediment screening benchmark. No SVOCs, pesticides, or PCB Aroclors were detected in the Alternative E sample (Table 15). No screening benchmarks for any of the analytes were exceeded at this sample location.

Table 14
Concentrations of Analytes in Sediment Samples: Alternative E

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-08
Conventional Parameters (mg/kg)					
Ammonia as nitrogen	0.1	-	-	-	60.5
Conventional Parameters (%)					
Moisture, percent	-	-	-	-	46.71
Total organic carbon	0.1	-	-	-	0.45
Total solids	0.1	-	-	-	56.8
Grain Size (%)					
Clay	1	-	-	-	15.7
Gravel	1	-	-	-	0 U
Sand	1	-	-	-	27.7
Silt	1	-	-	-	56.5
Metals (mg/kg)					
Antimony	2.5	-	-	15	0.0816 U
Arsenic	1	8.2	70	24	3.77
Cadmium	1	1.2	10	51	0.0786 J
Chromium	1	81	370	27,000	7.2
Copper	10	34	270	1,300	6.2
Lead	10	46.7	218	500	13
Mercury	0.1	0.15	0.71	6	0.0326
Nickel	10	20.9	51.6	840	7.64
Silver	1	1	3.7	97	0.0325 J

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-08
Zinc	10	150	410	9,900	26.1
Semivolatile Organics (µg/kg)					
1,2,4-Trichlorobenzene	10	-	-	70,000	4.36 U
1,2-Dichlorobenzene	20	-	-	390,000	4.36 U
1,3-Dichlorobenzene	20	-	-	62,000	4.36 U
1,4-Dichlorobenzene	20	-	-	250,000	4.36 U
2,4-Dichlorophenol	120	-	-	200,000	8.73 U
2,4-Dimethylphenol	20	-	-	1,300,000	8.73 U
2,4-Dinitrophenol	500	-	-	130,000	8.73 UJ
Diethyl phthalate	50	-	-	53,000,000	4.36 U
Hexachlorobenzene	10	-	-	1,000	4.36 U
Pentachlorophenol	100	-	-	730	8.73 U
Phenol	100	-	-	950,000	9.50 U
Polycyclic Aromatic Hydrocarbons (µg/kg)					
Acenaphthene	20	16	500	3,000,000	4.36 U
Acenaphthylene	20	44	640	3,800,000	4.36 U
Anthracene	20	85	1,100	18,000,000	4.36 U
Benzo(a)anthracene	20	261	1,600	41,000	2.37 J
Benzo(a)pyrene	20	430	1,600	4,100	3.29 J
Benzo(g,h,i)perylene	20	-	-	1,800,000	4.68
Chrysene	20	384	2,800	4,100,000	3.85 J
Dibenzo(a,h)anthracene	50	63	260	4,000	4.36 U
Benzo(b,k)fluoranthene	20	-	-	-	7.98

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-08
Fluoranthene	20	600	5,100	2,300,000	2.40 J
Fluorene	20	19	540	2,300,000	4.36 U
Indeno(1,2,3-c,d)pyrene	20	-	-	42,000	2.87 J
Naphthalene	20	160	2,100	120,000	4.36 U
Phenanthrene	20	240	1,500	1,700,000	4.36 U
Pyrene	20	665	2,600	1,700,000	6.13
Pesticides (µg/kg)					
4,4'-DDD (p,p'-DDD)	5	-	-	14,000	1.72 U
4,4'-DDE (p,p'-DDE)	5	2.2	27	10,000	1.72 U
4,4'-DDT (p,p'-DDT)	5	-	-	5,400	1.72 U
Aldrin	5	-	-	50	1.72 U
Chlordane	3	-	-	-	1.72 U
Chlordane, alpha- (Chlordane, cis-)	5	-	-	13,000	1.72 U
Chlordane, gamma-	5	-	-	7,300	1.72 U
Dieldrin	5	0.02	8	150	1.72 U
Endosulfan sulfate	5	-	-	380,000	1.72 U
Endosulfan, alpha- (I)	5	-	-	91,000	1.72 U
Endosulfan, beta (II)	5	-	-	270,000	1.72 U
Endrin	5	-	-	9,000	1.72 U
Endrin aldehyde	5	-	-	19,000	1.72 U
Endrin ketone	5	-	-	19,000	1.72 U
Heptachlor	3	-	-	130	1.72 U
Heptachlor epoxide	3	-	-	240	1.72 U

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-08
Hexachlorocyclohexane (BHC), alpha-	3	-	-	250	1.72 U
Hexachlorocyclohexane (BHC), beta-	3	-	-	920	1.72 U
Hexachlorocyclohexane (BHC), delta-	3	-	-	2,900	1.72 U
Hexachlorocyclohexane (BHC), gamma- (Lindane)	3	-	-	1,100	1.72 U
Sum DDX (U = 0)	-	1.58	46.1	-	1.72 U
Toxaphene	5	-	-	1,200	25.8 U
Dioxin Furans (ng/kg)					
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	5	-	-	-	5.3 U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	5	-	-	-	490 J
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	2.5	-	-	-	0.82 U
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	2.5	-	-	-	19 J
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	2.5	-	-	-	0.58 U
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	2.5	-	-	-	0.73 U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	2.5	-	-	-	1.2 U
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	2.5	-	-	-	0.72 U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	2.5	-	-	-	1.3 U
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	2.5	-	-	-	0.95 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	2.5	-	-	-	1.3 U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	2.5	-	-	-	0.48 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	2.5	-	-	-	1.9 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	2.5	-	-	-	0.72 U
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	2.5	-	-	-	0.47 U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	0.5	-	-	-	1.7 U

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-08
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	0.5	-	-	1,000	1.0 U
Dioxin Furans (pg/g)					
Cedar Port TEQ (reported calculation)	-	-	-	-	0.34
PCB Aroclors (µg/kg)					
Aroclor 1016	-	-	-	-	2.00 UJ
Aroclor 1221	-	-	-	-	2.00 UJ
Aroclor 1232	-	-	-	-	2.00 UJ
Aroclor 1242	-	-	-	-	2.00 UJ
Aroclor 1248	-	-	-	-	2.00 UJ
Aroclor 1254	-	-	-	-	2.00 UJ
Aroclor 1260	-	-	-	-	2.00 UJ
Aroclor 1262	-	-	-	-	2.00 UJ
Aroclor 1268	-	-	-	-	2.00 UJ
Total PCB Aroclors (U = 0)	1	22.7	180	1,100	2.00 UJ
Total Petroleum Hydrocarbons (mg/kg)					
Diesel range organics (C12 – C28)	-	-	-	-	25 U
Motor oil range hydrocarbons (C28-C35)	-	-	-	-	21.1 J
Total petroleum hydrocarbons (C6-C35)	5	-	-	-	38.9 J
Total petroleum hydrocarbons (C6-C12)	-	-	-	-	17.8 J

Notes:

a. NOAA- <http://response.restoration.noaa.gov/cpr/sediment/squirt/squirt.html>

b. <https://www.tceq.texas.gov/remediation/trrp/trrppcls.html>

Chosen screening benchmark

Bold indicates a detected result

All non-detect results are reported at the reporting limit except results for high resolution methods, which are reported at the method detection limit.

Calculated values have been rounded to laboratory-reported significant digits

Totals are calculated as the sum of all detected results (U=0). If all results are not detected, the highest reporting limit value is reported as the sum.

Total PAHs is the sum of acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(g,h,i)perylene, benzo(b,k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-c,d)pyrene, naphthalene, phenanthrene, and pyrene.

Total PCB Aroclors is the total of all PCB Aroclors listed in this table.

Total DDX is the sum of 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT.

USEPA Stage 2A data validation was completed by Anchor QEA.

6.5.4 Beneficial Use Placement Area

The Beneficial Use Placement Area is represented by location CPC-09. The sample from the Placement Area was primarily sand (48.1%) and silt (41.9%), with 10.1% clay. Ammonia, some metals, petroleum hydrocarbons, and two dioxins/furan congeners were detected in low concentrations, none of which exceeded any sediment screening benchmark. No SVOCs, PAHs, pesticides, or PCB Aroclors were detected in Beneficial Use E sample (Table 16). No screening benchmarks were exceeded for any of the analytes at this sample location.

Table 15
Concentrations of Analytes in Sediment Samples: Beneficial Use Placement Area

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-09
Conventional Parameters (mg/kg)					
Ammonia as nitrogen	0.1	-	-	-	16.2
Conventional Parameters (%)					
Moisture, percent	-	-	-	-	34.61
Total organic carbon	0.1	-	-	-	0.37
Total solids	0.1	-	-	-	62.2
Grain Size (%)					
Clay	1	-	-	-	10.1
Gravel	1	-	-	-	0 U
Sand	1	-	-	-	48.1
Silt	1	-	-	-	41.9
Metals (mg/kg)					
Antimony	2.5	-	-	15	0.0774 U
Arsenic	1	8.2	70	24	3.9
Cadmium	1	1.2	10	51	0.0842
Chromium	1	81	370	27,000	7.22
Copper	10	34	270	1,300	6
Lead	10	46.7	218	500	10.6
Mercury	0.1	0.15	0.71	6	0.0328
Nickel	10	20.9	51.6	840	7.62
Silver	1	1	3.7	97	0.0350 J
Zinc	10	150	410	9,900	26.5

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-09
Semivolatile Organics (µg/kg)					
1,2,4-Trichlorobenzene	10	-	-	70,000	4.01 UJ
1,2-Dichlorobenzene	20	-	-	390,000	4.01 UJ
1,3-Dichlorobenzene	20	-	-	62,000	4.01 UJ
1,4-Dichlorobenzene	20	-	-	250,000	4.01 UJ
2,4-Dichlorophenol	120	-	-	200,000	8.02 UJ
2,4-Dimethylphenol	20	-	-	1,300,000	8.02 UJ
2,4-Dinitrophenol	500	-	-	130,000	8.02 UJ
Benzo(b,k)fluoranthene	20	-	-	-	4.01 UJ
Diethyl phthalate	50	-	-	53,000,000	4.01 UJ
Hexachlorobenzene	10	-	-	1,000	4.01 UJ
Pentachlorophenol	100	-	-	730	8.02 UJ
Phenol	100	-	-	950,000	8.02 UJ
Polycyclic Aromatic Hydrocarbons (µg/kg)					
Acenaphthene	20	16	500	3,000,000	4.01 UJ
Acenaphthylene	20	44	640	3,800,000	4.01 UJ
Anthracene	20	85	1,100	18,000,000	4.01 UJ
Benzo(a)anthracene	20	261	1,600	41,000	4.01 UJ
Benzo(a)pyrene	20	430	1,600	4,100	4.01 UJ
Benzo(g,h,i)perylene	20	-	-	1,800,000	4.01 UJ
Chrysene	20	384	2,800	4,100,000	4.01 UJ
Dibenzo(a,h)anthracene	50	63	260	4,000	4.01 UJ
Fluoranthene	20	600	5,100	2,300,000	4.01 UJ
Fluorene	20	19	540	2,300,000	4.01 UJ
Indeno(1,2,3-c,d)pyrene	20	-	-	42,000	4.01 UJ

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-09
Naphthalene	20	160	2,100	120,000	4.01 UJ
Phenanthrene	20	240	1,500	1,700,000	4.01 UJ
Pyrene	20	665	2,600	1,700,000	4.01 UJ
Pesticides (µg/kg)					
4,4'-DDD (p,p'-DDD)	5	-	-	14,000	1.53 U
4,4'-DDE (p,p'-DDE)	5	2.2	27	10,000	1.53 U
4,4'-DDT (p,p'-DDT)	5	-	-	5,400	1.53 U
Aldrin	5	-	-	50	1.53 U
Chlordane	3	-	-	-	1.53 U
Chlordane, alpha- (Chlordane, cis-)	5	-	-	13,000	1.53 U
Chlordane, gamma-	5	-	-	7,300	1.53 U
Dieldrin	5	0.02	8	150	1.53 U
Endosulfan sulfate	5	-	-	380,000	1.53 U
Endosulfan, alpha- (I)	5	-	-	91,000	1.53 U
Endosulfan, beta (II)	5	-	-	270,000	1.53 U
Endrin	5	-	-	9,000	1.53 U
Endrin aldehyde	5	-	-	19,000	1.53 U
Endrin ketone	5	-	-	19,000	1.53 U
Heptachlor	3	-	-	130	1.53 U
Heptachlor epoxide	3	-	-	240	1.53 U
Hexachlorocyclohexane (BHC), alpha-	3	-	-	250	1.53 U
Hexachlorocyclohexane (BHC), beta-	3	-	-	920	1.53 U
Hexachlorocyclohexane (BHC), delta-	3	-	-	2,900	1.53 U
Hexachlorocyclohexane (BHC), gamma- (Lindane)	3	-	-	1,100	1.53 U
Sum DDX (U = 0)	-	1.58	46.1	-	1.53 U


Analyte	TDL	Screening Benchmarks			Cedar Port Sediment
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-09
Toxaphene	5	-	-	1,200	23.0 U
Dioxin Furans (ng/kg)					
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	5	-	-	-	2.8 U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	5	-	-	-	220 J
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	2.5	-	-	-	0.22 U
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	2.5	-	-	-	12 J
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	2.5	-	-	-	0.18 U
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	2.5	-	-	-	0.49 U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	2.5	-	-	-	0.57 U
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	2.5	-	-	-	0.26 U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	2.5	-	-	-	0.58 U
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	2.5	-	-	-	0.63 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	2.5	-	-	-	0.76 U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	2.5	-	-	-	0.88 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	2.5	-	-	-	0.88 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	2.5	-	-	-	0.48 U
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	2.5	-	-	-	0.29 U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	0.5	-	-	-	1.8 U
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	0.5	-	-	1,000	0.57 U
Dioxin Furans (pg/g)					
Cedar Port TEQ (reported calculation)	-	-	-	-	0.19
PCB Aroclors (µg/kg)					
Aroclor 1016	-	-	-	-	2.00 UJ
Aroclor 1221	-	-	-	-	2.00 UJ
Aroclor 1232	-	-	-	-	2.00 UJ

Analyte	TDL	Screening Benchmarks			Cedar Port Sediment
		NOAA Marine ERL ^a	NOAA Marine ERM ^a	TRRP Residential 30-Acre Combined PCLs ^b	CPC-09
Aroclor 1242	-	-	-	-	2.00 UJ
Aroclor 1248	-	-	-	-	2.00 UJ
Aroclor 1254	-	-	-	-	2.00 UJ
Aroclor 1260	-	-	-	-	2.00 UJ
Aroclor 1262	-	-	-	-	2.00 UJ
Aroclor 1268	-	-	-	-	2.00 UJ
Total PCB Aroclors (U = 0)	1	22.7	180	1,100	2.00 UJ
Total Petroleum Hydrocarbons (mg/kg)					
Diesel range organics (C12 – C28)	-	-	-	-	25 U
Motor oil range hydrocarbons (C28-C35)	-	-	-	-	10.9 J
Total petroleum hydrocarbons (C6-C35)	5	-	-	-	35.3 J
Total petroleum hydrocarbons (C6-C12)	-	-	-	-	24.4 J

Notes:

a. NOAA- <http://response.restoration.noaa.gov/cpr/sediment/squirt/squirt.html>

b. <https://www.tceq.texas.gov/remediation/trrp/trrppcls.html>

 Chosen screening benchmark

Bold indicates a detected result.

All non-detect results are reported at the reporting limit except results for high resolution methods, which are reported at the method detection limit.

Calculated values have been rounded to laboratory-reported significant digits.

Totals are calculated as the sum of all detected results (U=0). If all results are not detected, the highest reporting limit value is reported as the sum.

Total PAHs is the sum of acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(g,h,i)perylene, benzo(b,k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-c,d)pyrene, naphthalene, phenanthrene, and pyrene.

Total PCB Aroclors is the total of all PCB Aroclors listed in this table.

Total DDX is the sum of 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT.

USEPA Stage 2A data validation was completed by Anchor QEA.

7 HTRW Conclusions

A feasibility-level HTRW evaluation was completed for the proposed project, and a records search was conducted following the rules and guidance of ER 1165-2-132, *HTRW Guidance for Civil Works Projects*, and ASTM E1527-13, *Standard Practice for Environmental Site Assessment: Phase 1 Environmental Site Assessment Process*. No sites were identified that had RECs within the search radius that could impact the proposed project.

Further, the feasibility-level sampling program indicated that throughout all nine elutriate, water, and sediment samples tested for this investigation, few analytes were detected and the analytes that were detected primarily fell below the benchmark screening levels. The only benchmark exceeded was ammonia as nitrogen in three elutriate samples. This exceedance is short lived and will rapidly oxidize in well oxygenated water. The results from the chemical analysis presented in this report do not indicate a cause for concern with the dredging or placement of sediment from these sample locations.

8 HTRW Recommendations

Two primary laws address the regulatory approaches for evaluating the contaminant potential of dredged sediments. The Marine Protection, Research and Sanctuaries Act (33 USC 1401) and the Ocean Dumping Regulations (40 *Code of Federal Regulations* [CFR] 220–229) control the testing requirements for ocean disposal. The Section 404(b)(1) Guidelines (40 CFR 230) under the Clean Water Act (33 USC 1344) govern testing requirements for material from the bay. To ensure compliance with these regulations, additional testing is recommended during the Preconstruction Engineering and Design phase for the preferred alternative. Because each alternative proposes offshore disposal at the Offshore Dredged Material Disposal Site (ODMDS) site, testing should be completed based on *Evaluation of Dredged Material Proposed for Ocean Disposal: Testing Manual* (EPA and USACE 1991). Evaluations should include priority pollutants, trace metals, volatile and semivolatile organics, pesticides, PCBs, some PAHs, dioxin/furans, and bioassay and bioaccumulation evaluations at sufficient intervals to adequately characterize the dredge material proposed for placement.

9 References

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Attachment 1

HTRW Records Review Documentation

CPIND Deepwater Channel
Harris & Chambers County
Baytown, TX 77520

Inquiry Number: 7379536.2s
June 30, 2023

EDR Area / Corridor Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Mapped Sites Summary	2
Key Map	2
Map Findings Summary	3
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Government Records Searched/Data Currency Tracking	GR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

SUBJECT PROPERTY INFORMATION

ADDRESS

HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77523

TARGET PROPERTY SEARCH RESULTS

The Target Property was identified in the following databases.

Page Numbers and Map Identifications refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

STANDARD ENVIRONMENTAL RECORDS

Federal ERNS list

ERNS: Emergency Response Notification System

A review of the ERNS list, as provided by EDR, and dated 03/20/2023 has revealed that there are 24 ERNS sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
Not reported Incident Date Time: 2007-08-14 12:00:00 NRC Report #: 845630		A1 / 1	58
Not reported Incident Date Time: 2008-05-14 00:00:00 NRC Report #: 870885		A2 / 1	58
Not reported Incident Date Time: 2008-01-08 00:00:00 NRC Report #: 859120		A3 / 1	58
Not reported Incident Date Time: 2006-07-26 00:00:00 NRC Report #: 805597		A4 / 1	58
Not reported Incident Date Time: 2006-03-03 00:00:00 NRC Report #: 789817		A5 / 1	59
Not reported	BY CEDAR BAYOU CHANN	6 / 5	59

EXECUTIVE SUMMARY

Incident Date Time: 1/22/2021 13:00 NRC Report #: 1296520			
Not reported	SEE LAT AND LONG	7 / 5	59
Incident Date Time: 3/15/2019 12:13 NRC Report #: 1240199			
Not reported		B8 / 5	59
Incident Date Time: 2005-02-07 12:00:00 NRC Report #: 749466			
Not reported		B9 / 5	60
Incident Date Time: 2005-05-03 12:00:00 NRC Report #: 757606			
Not reported	N/A	B10 / 5	60
Incident Date Time: 2001-12-31 12:00:00 NRC Report #: 589837			
Not reported		B11 / 5	60
Incident Date Time: 2004-12-31 00:00:00 NRC Report #: 745898			
Not reported		B12 / 5	60
Incident Date Time: 2003-09-01 12:00:00 NRC Report #: 655701			
Not reported		B13 / 5	61
Incident Date Time: 2003-12-22 11:41:00 NRC Report #: 708767			
Not reported		B14 / 5	61
Incident Date Time: 2004-04-14 12:00:00 NRC Report #: 718822			
Not reported		B15 / 5	61
Incident Date Time: 2003-03-12 12:00:00 NRC Report #: 639268			
Not reported	SEE LAT/LONG	B16 / 5	61
Incident Date Time: 2009-12-29 16:57:00 NRC Report #: 927342			
Not reported		B17 / 5	62
Incident Date Time: 2006-02-19 12:00:00 NRC Report #: 788659			
Not reported		B18 / 5	62
Incident Date Time: 2009-11-12 16:05:00 NRC Report #: 923492			
Not reported		B19 / 5	62
Incident Date Time: 2006-02-19 21:02:00 NRC Report #: 788539			
Not reported		B20 / 5	62
Incident Date Time: 2006-10-21 16:12:00 NRC Report #: 815595			
Not reported		B21 / 5	63
Incident Date Time: 2005-07-11 12:00:00 NRC Report #: 765155			
Not reported	TRINITY BAY	22 / 11	63
Incident Date Time: 2012-03-02 11:00:00			

EXECUTIVE SUMMARY

NRC Report #: 1004549

Not reported	CEDAR POINT FIELD	23 / 15	63
Incident Date Time: 1990-10-22 14:00:00			
NRC Report #: 44597			

Not reported	SEE LAT/LONG	24 / 15	63
Incident Date Time: 2010-03-19 11:30:00			
NRC Report #: 934464			

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Page Numbers and Map Identifications refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

A review of the PFAS ECHO list, as provided by EDR, and dated 03/30/2023 has revealed that there is 1 PFAS ECHO site within approximately 0.25 miles of the requested target property.

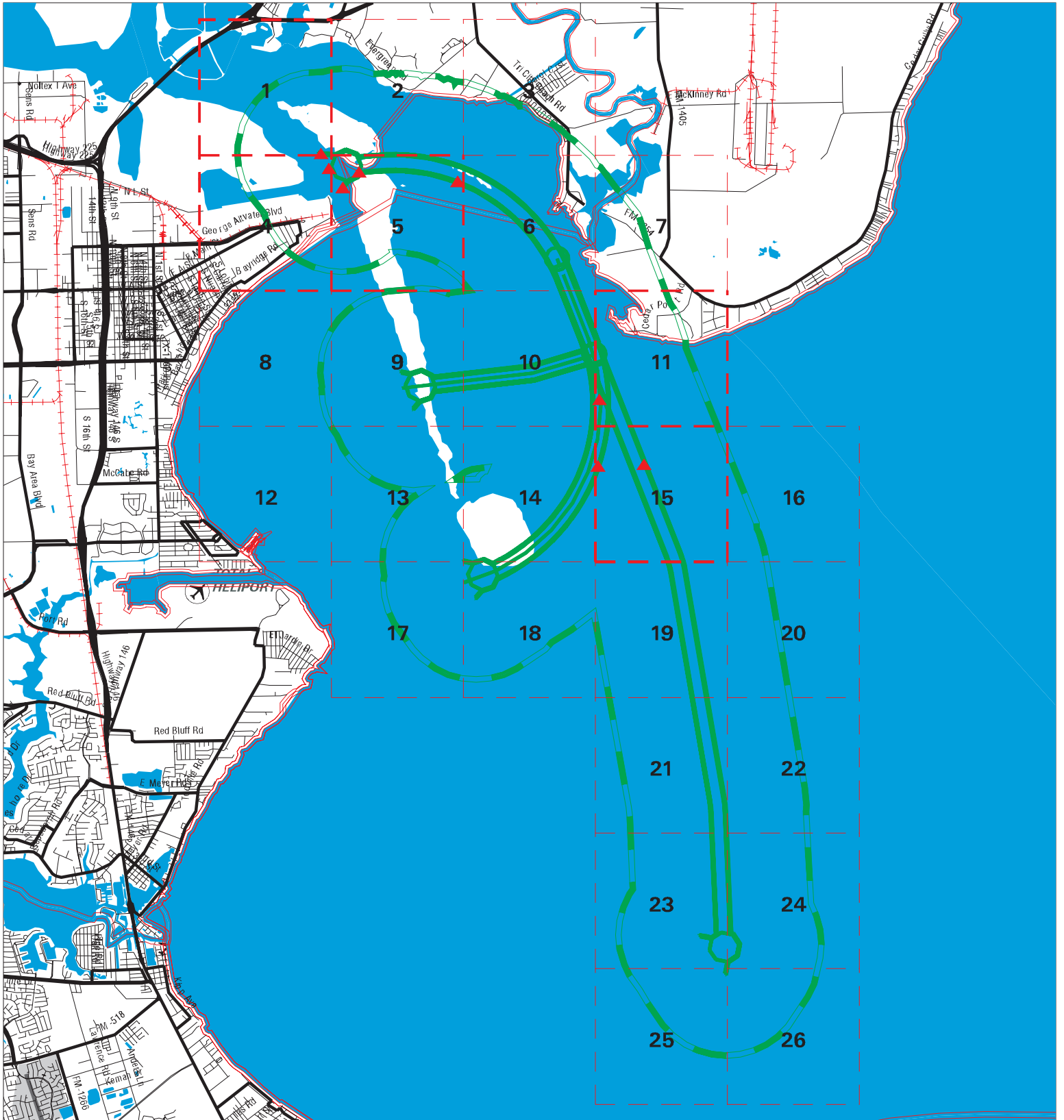
<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
MONT BELVIEU TO MORG		WSW 0 - 1/8 (0.034 mi.)	25 / 4	64

MAPPED SITES SUMMARY

Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
A1 / 1			ERNS	TP
A2 / 1			ERNS	TP
A3 / 1			ERNS	TP
A4 / 1			ERNS	TP
A5 / 1			ERNS	TP
6 / 5		BY CEDAR BAYOU CHANN	ERNS	TP
7 / 5		SEE LAT AND LONG	ERNS	TP
B8 / 5			ERNS	TP
B9 / 5			ERNS	TP
B10 / 5		N/A	ERNS	TP
B11 / 5			ERNS	TP
B12 / 5			ERNS	TP
B13 / 5			ERNS	TP
B14 / 5			ERNS	TP
B15 / 5			ERNS	TP
B16 / 5		SEE LAT/LONG	ERNS	TP
B17 / 5			ERNS	TP
B18 / 5			ERNS	TP
B19 / 5			ERNS	TP
B20 / 5			ERNS	TP
B21 / 5			ERNS	TP
22 / 11		TRINITY BAY	ERNS	TP
23 / 15		CEDAR POINT FIELD	ERNS	TP
24 / 15		SEE LAT/LONG	ERNS	TP
25 / 4	MONT BELVIEU TO MORG		PFAS ECHO	182 0.034 WSW

Key Map - 7379536.2s



- ▲ Sites
- Target Property
- Search Buffer
- - - Focus Map - No Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: CPIND Deepwater Channel ADDRESS: Harris & Chambers County CITY/STATE: Baytown TX ZIP: 77523	CLIENT: Anchor QEA, LLC CONTACT: Sara Flaherty INQUIRY #: 7379536.2s DATE: 06/30/23 5:59 PM
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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>STANDARD ENVIRONMENTAL RECORDS</u>								
<i>Lists of Federal NPL (Superfund) sites</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Lists of Federal Delisted NPL sites</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Lists of Federal CERCLA sites with NFRAP</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA facilities undergoing Corrective Action</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Lists of Federal RCRA TSD facilities</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA generators</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP	24	NR	NR	NR	NR	NR	24
<i>Lists of state- and tribal (Superfund) equivalent sites</i>								
SHWS	1.000		0	0	0	0	NR	0
<i>Lists of state and tribal landfills and solid waste disposal facilities</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
DEBRIS	0.500		0	0	0	NR	NR	0
CLI	0.500		0	0	0	NR	NR	0
WASTE MGMT	TP		NR	NR	NR	NR	NR	0

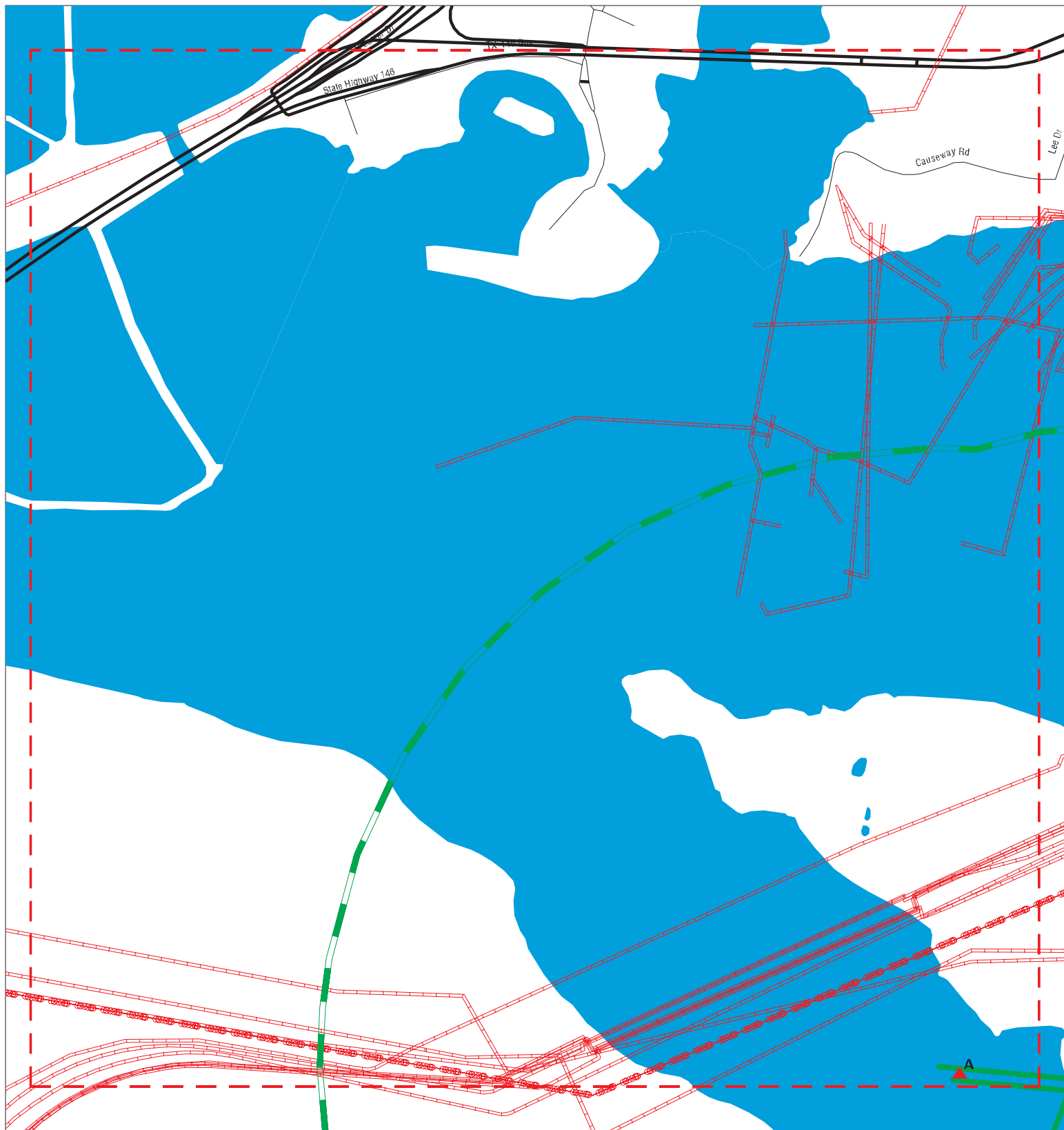
MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<i>Lists of state and tribal leaking storage tanks</i>								
INDIAN LUST	0.500		0	0	0	NR	NR	0
LPST	0.500		0	0	0	NR	NR	0
RDR	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal registered storage tanks</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
TANKS	0.500		0	0	0	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
AUL	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal voluntary cleanup sites</i>								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal brownfield sites</i>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
PRIORITYCLEANERS	0.500		0	0	0	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
CENTRAL REGISTRY	TP		NR	NR	NR	NR	NR	0
<i>Local Lists of Registered Storage Tanks</i>								
NON REGIST PST	0.250		0	0	NR	NR	NR	0
<i>Local Land Records</i>								
HIST LIENS	TP		NR	NR	NR	NR	NR	0

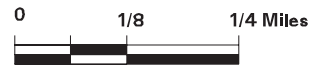
MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0

Focus Map - 1 - 7379536.2s



- | | | |
|----------------------|-------------------|------------------------------|
| Sites | Focus Map - Sites | Dept. Defense Sites |
| Target Property | Power Line | Indian Reservations BIA |
| Search Buffer | Pipe Line | National Priority List Sites |
| Focus Map - No Sites | | |



SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
CITY/STATE: Baytown TX
ZIP: 77523

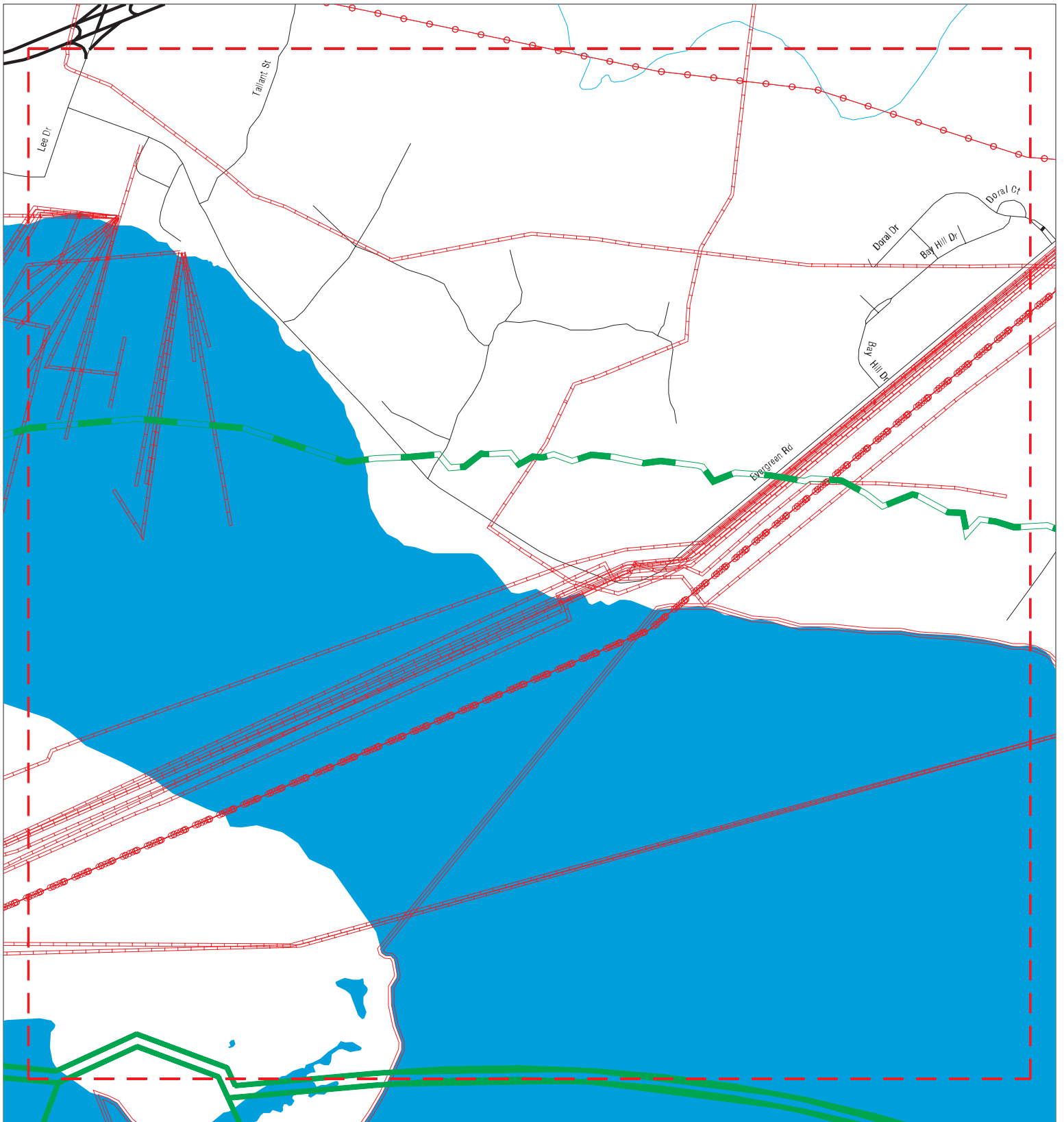
CLIENT: Anchor QEA, LLC
CONTACT: Sara Flaherty
INQUIRY #: 7379536.2s
DATE: 06/30/23












MAPPED SITES SUMMARY - FOCUS MAP 1

Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
A1 / 1			ERNS	TP
A2 / 1			ERNS	TP
A3 / 1			ERNS	TP
A4 / 1			ERNS	TP
A5 / 1			ERNS	TP

Focus Map - 2 - 7379536.2s



- | | | | | | |
|---|----------------------|---|-------------------|---|------------------------------|
|  | Sites |  | Focus Map - Sites |  | Dept. Defense Sites |
|  | Target Property |  | Power Line |  | Indian Reservations BIA |
|  | Search Buffer |  | Pipe Line |  | National Priority List Sites |
|  | Focus Map - No Sites |  | | | |



SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
CITY/STATE: Baytown TX
ZIP: 77523

CLIENT: Anchor QEA, LLC
CONTACT: Sara Flaherty
INQUIRY #: 7379536.2s
DATE: 06/30/23

MAPPED SITES SUMMARY - FOCUS MAP 2

Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 3 - 7379536.2s



- ▲ Sites
- ↗ Target Property
- ↗ Search Buffer
- ↗ Focus Map - No Sites
- ↗ Focus Map - Sites
- ⚡ Power Line
- ↗ Pipe Line
- Dept. Defense Sites
- Indian Reservations BIA
- National Priority List Sites



<p>SITE NAME: CPIND Deepwater Channel ADDRESS: Harris & Chambers County CITY/STATE: Baytown TX ZIP: 77523</p>	<p>CLIENT: Anchor QEA, LLC CONTACT: Sara Flaherty INQUIRY #: 7379536.2s DATE: 06/30/23</p>
--	---

MAPPED SITES SUMMARY - FOCUS MAP 3

Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 4 - 7379536.2s



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- ▬ Power Line
- ▬ Pipe Line
- ▬ National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 CITY/STATE: Baytown TX
 ZIP: 77523

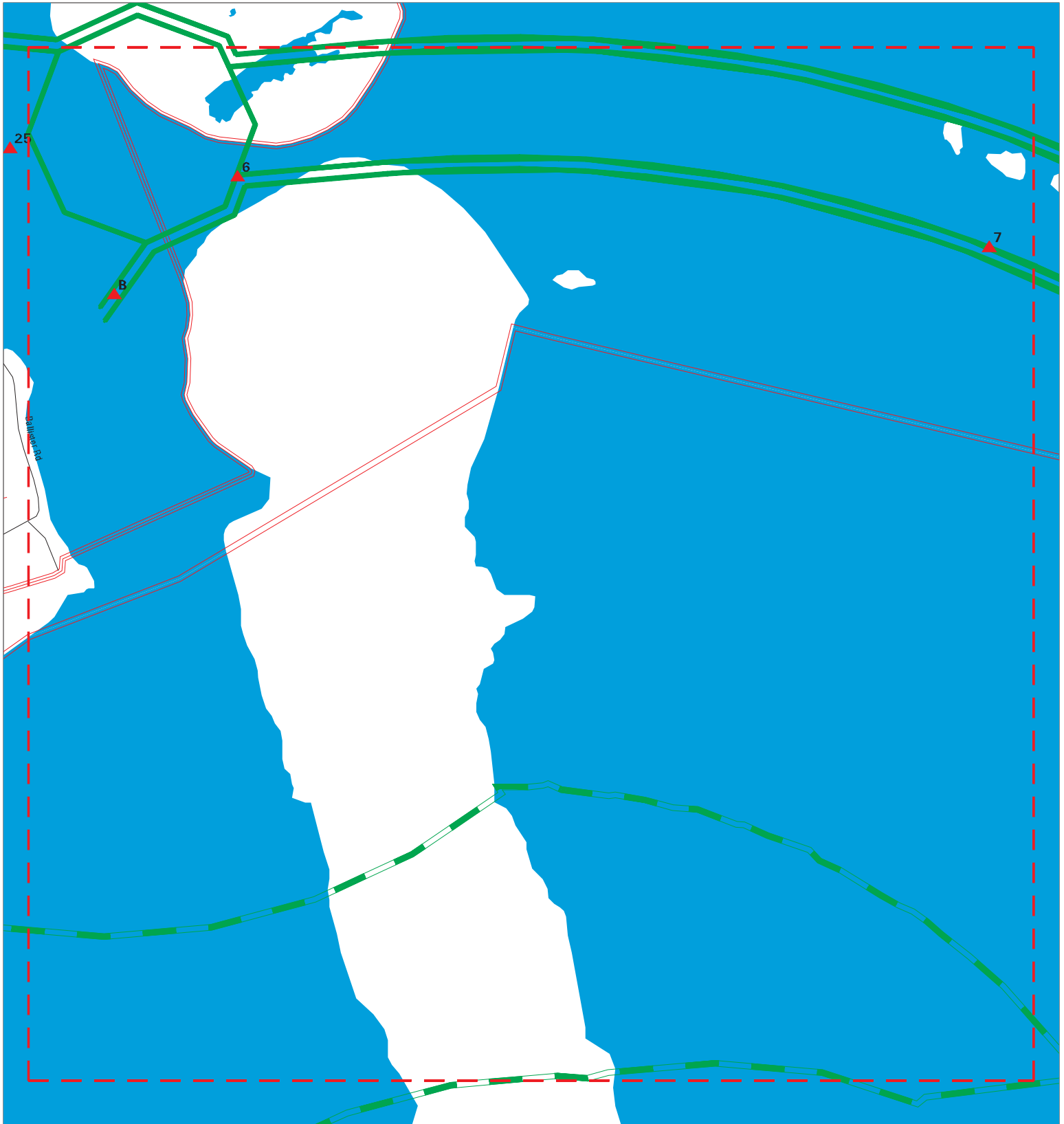
CLIENT: Anchor QEA, LLC
 CONTACT: Sara Flaherty
 INQUIRY #: 7379536.2s
 DATE: 06/30/23

MAPPED SITES SUMMARY - FOCUS MAP 4

Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
25 / 4	MONT BELVIEU TO MORG		PFAS ECHO	182 0.034 WSW

Focus Map - 5 - 7379536.2s



- | | | |
|----------------------|-------------------|------------------------------|
| Sites | Focus Map - Sites | Dept. Defense Sites |
| Target Property | Power Line | Indian Reservations BIA |
| Search Buffer | Pipe Line | National Priority List Sites |
| Focus Map - No Sites | | |



SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
CITY/STATE: Baytown TX
ZIP: 77523

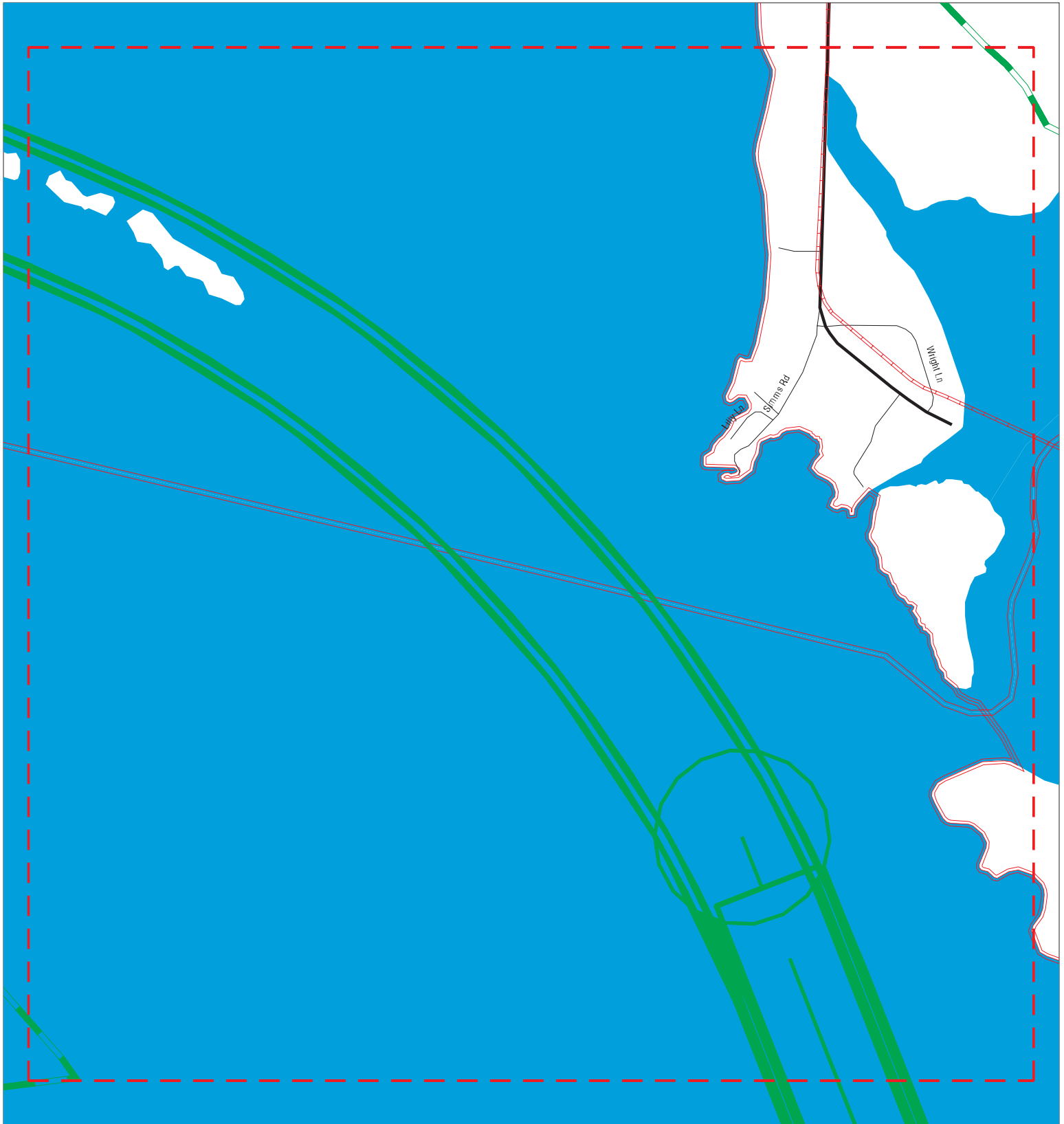
CLIENT: Anchor QEA, LLC
CONTACT: Sara Flaherty
INQUIRY #: 7379536.2s
DATE: 06/30/23











MAPPED SITES SUMMARY - FOCUS MAP 5

Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
6 / 5		BY CEDAR BAYOU CHANN	ERNS	TP
7 / 5		SEE LAT AND LONG	ERNS	TP
B8 / 5			ERNS	TP
B9 / 5			ERNS	TP
B10 / 5		N/A	ERNS	TP
B11 / 5			ERNS	TP
B12 / 5			ERNS	TP
B13 / 5			ERNS	TP
B14 / 5			ERNS	TP
B15 / 5			ERNS	TP
B16 / 5		SEE LAT/LONG	ERNS	TP
B17 / 5			ERNS	TP
B18 / 5			ERNS	TP
B19 / 5			ERNS	TP
B20 / 5			ERNS	TP
B21 / 5			ERNS	TP

Focus Map - 6 - 7379536.2s



- | | | |
|--|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
CITY/STATE: Baytown TX
ZIP: 77523

CLIENT: Anchor QEA, LLC
CONTACT: Sara Flaherty
INQUIRY #: 7379536.2s
DATE: 06/30/23

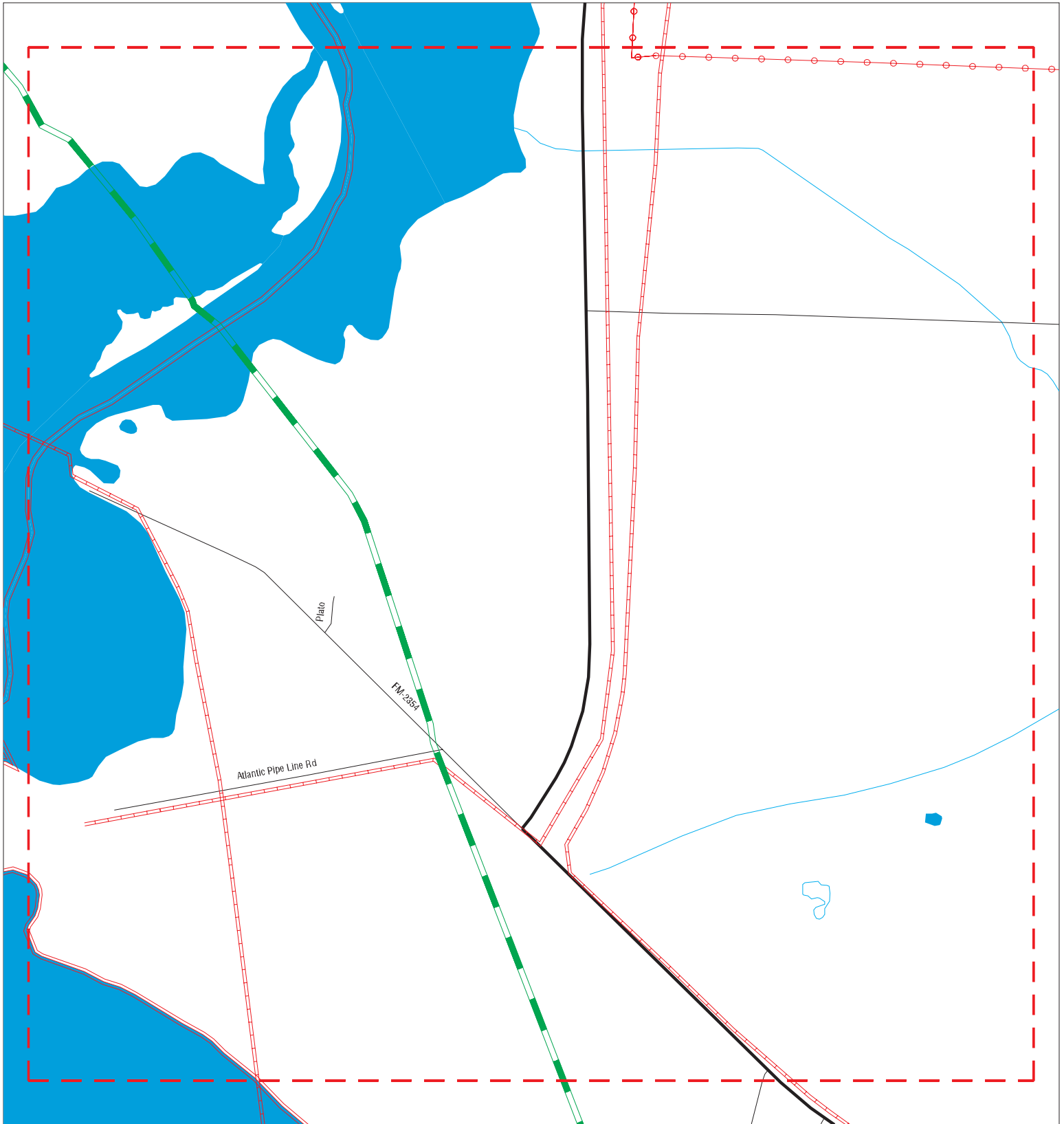
MAPPED SITES SUMMARY - FOCUS MAP 6











Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 7 - 7379536.2s



- | | | |
|---|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
CITY/STATE: Baytown TX
ZIP: 77523

CLIENT: Anchor QEA, LLC
CONTACT: Sara Flaherty
INQUIRY #: 7379536.2s
DATE: 06/30/23

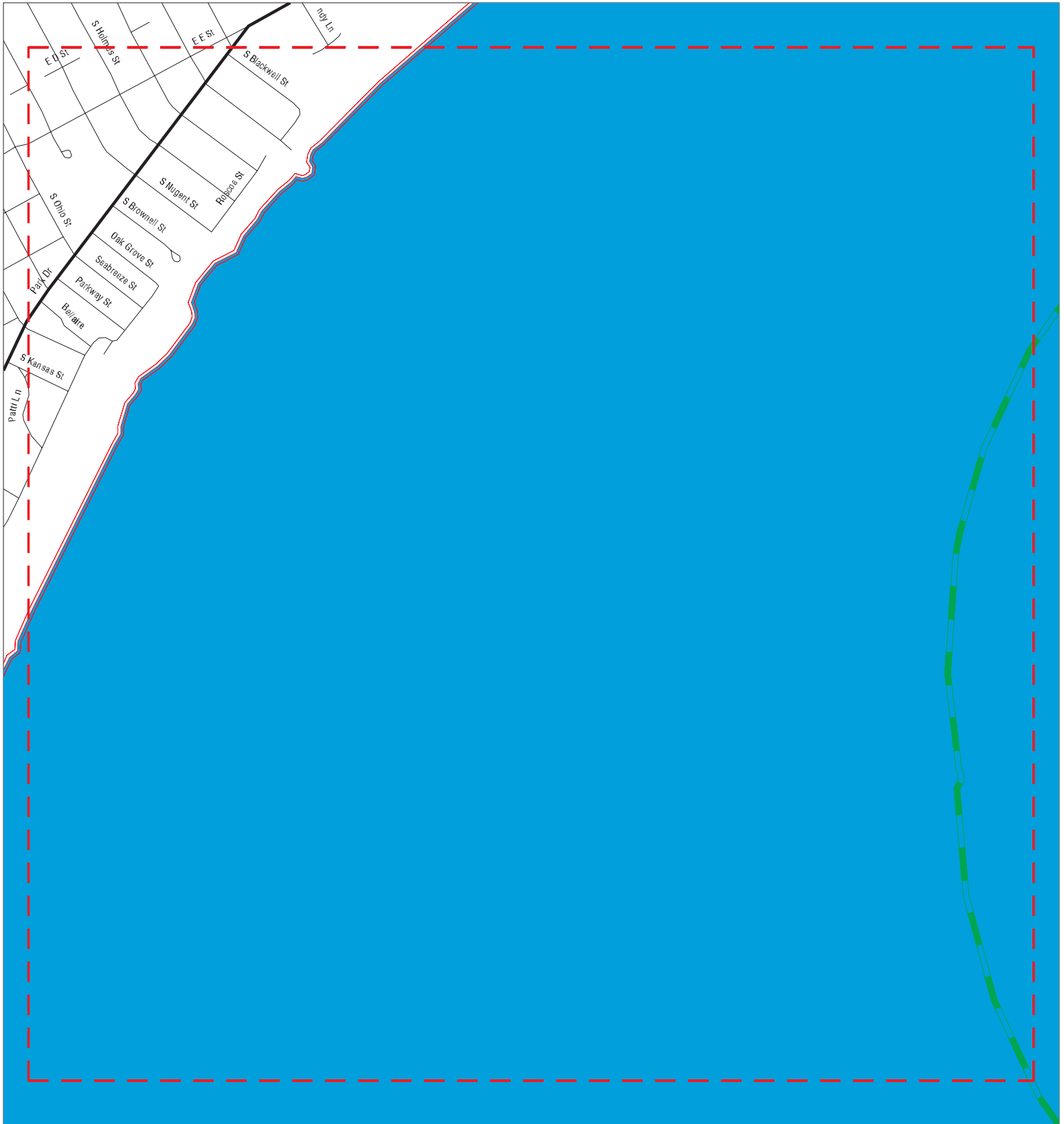
MAPPED SITES SUMMARY - FOCUS MAP 7

Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 8 - 7379536.2s



- ▲ Sites
- ↗ Target Property
- ↗ Search Buffer
- ↗ Focus Map - No Sites
- ↗ Focus Map - Sites
- ↗ Power Line
- ↗ Pipe Line
- Dept. Defense Sites
- Indian Reservations BIA
- National Priority List Sites



SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
CITY/STATE: Baytown TX
ZIP: 77523

CLIENT: Anchor QEA, LLC
CONTACT: Sara Flaherty
INQUIRY #: 7379536.2s
DATE: 06/30/23

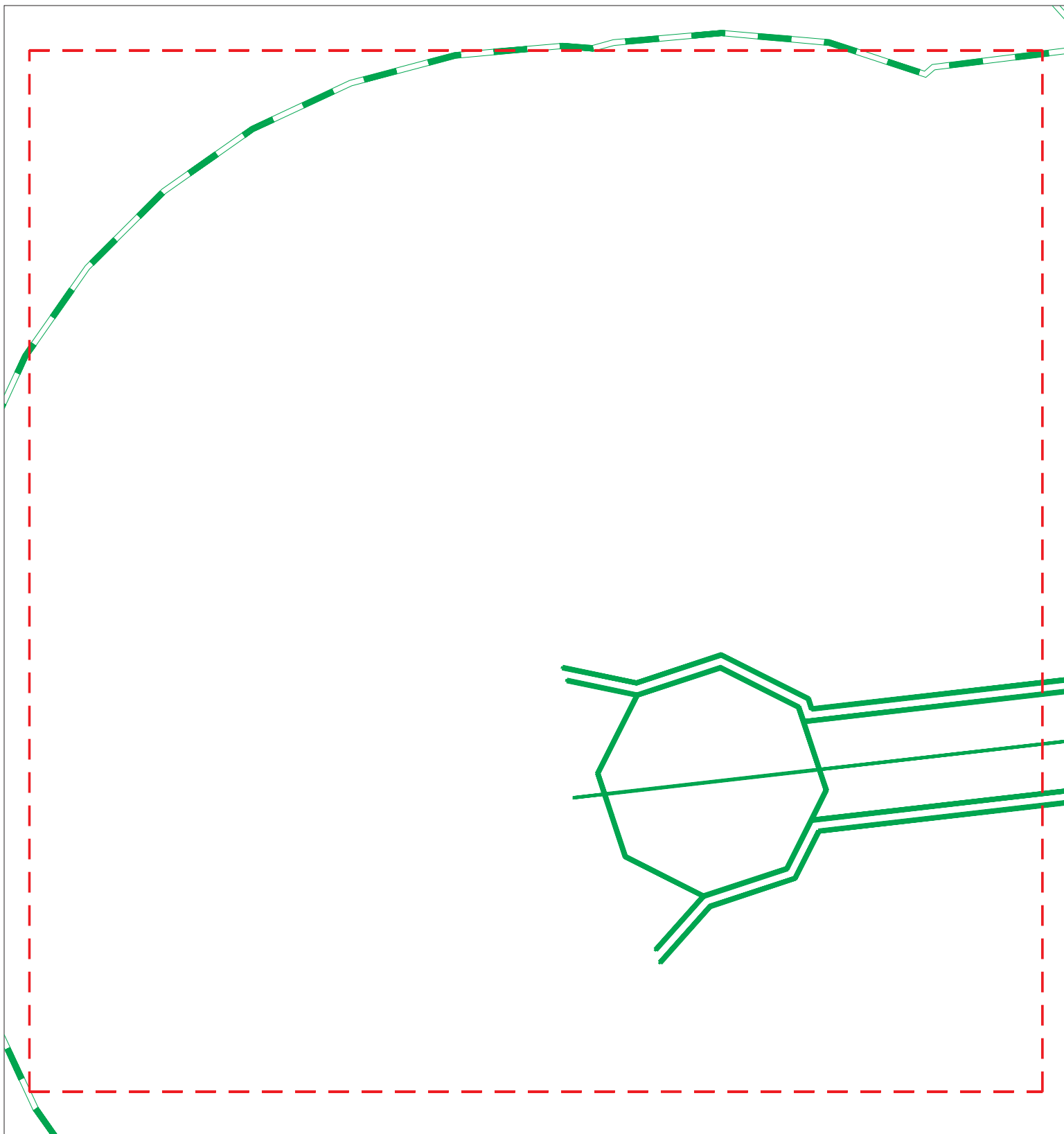
MAPPED SITES SUMMARY - FOCUS MAP 8











Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 9 - 7379536.2s



- | | | |
|--|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 CITY/STATE: Baytown TX
 ZIP: 77523

CLIENT: Anchor QEA, LLC
 CONTACT: Sara Flaherty
 INQUIRY #: 7379536.2s
 DATE: 06/30/23

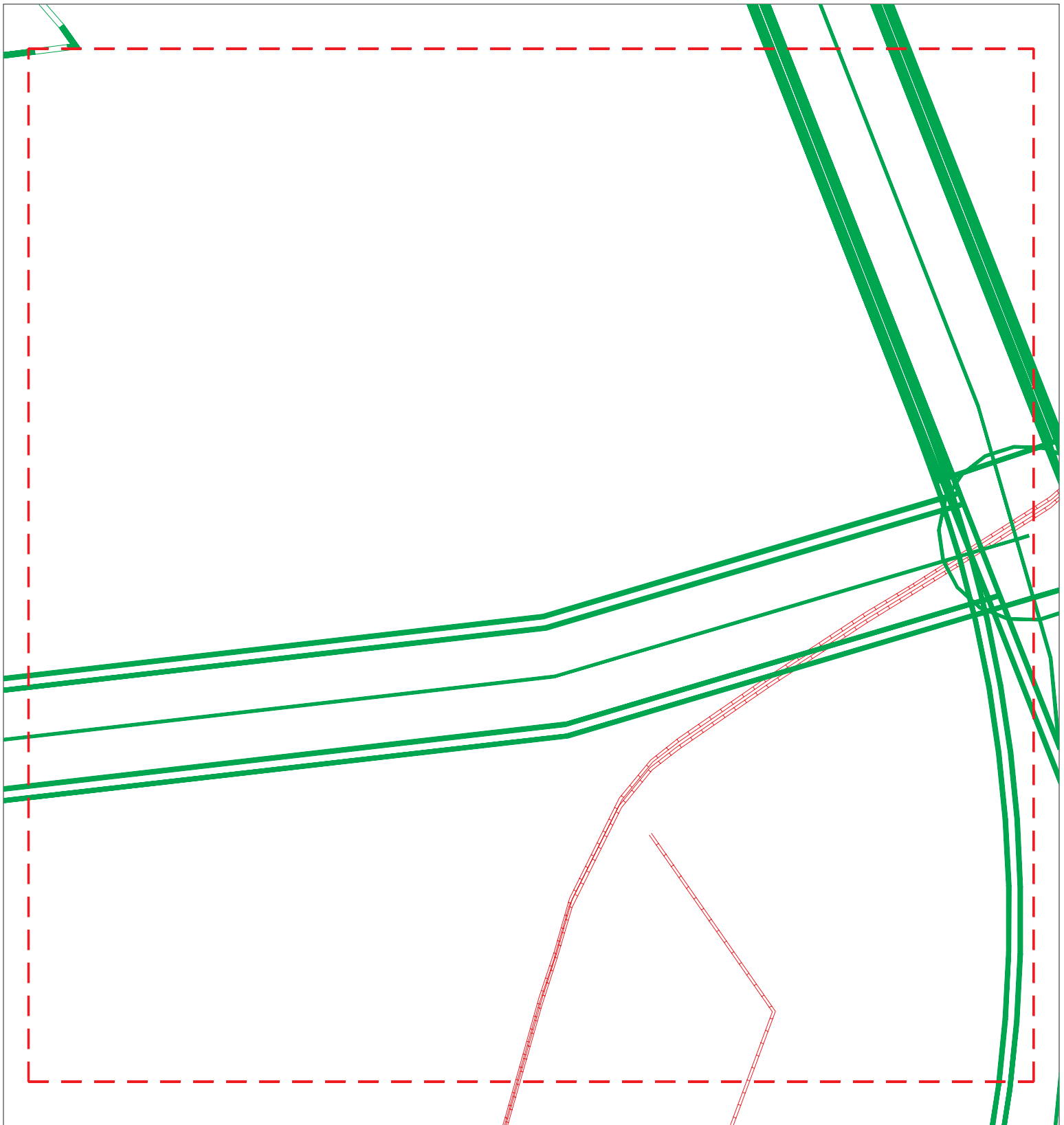
MAPPED SITES SUMMARY - FOCUS MAP 9











Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
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NO MAPPED SITES FOUND

Focus Map - 10 - 7379536.2s



- | | | |
|---|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
CITY/STATE: Baytown TX
ZIP: 77523

CLIENT: Anchor QEA, LLC
CONTACT: Sara Flaherty
INQUIRY #: 7379536.2s
DATE: 06/30/23

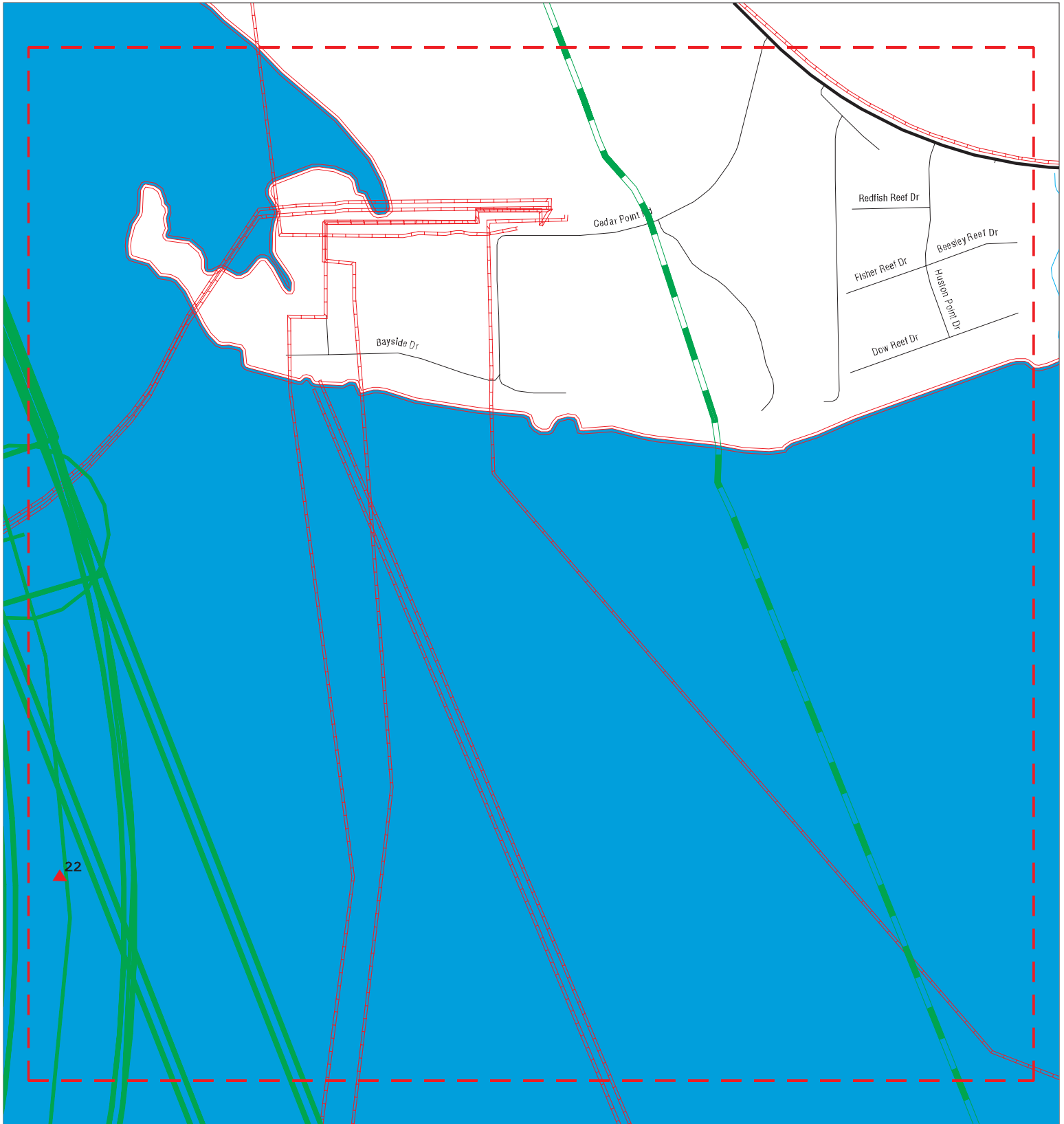
MAPPED SITES SUMMARY - FOCUS MAP 10

Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 11 - 7379536.2s



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- ▬ Power Line
- ▬ Pipe Line
- Dept. Defense Sites
- Indian Reservations BIA
- National Priority List Sites



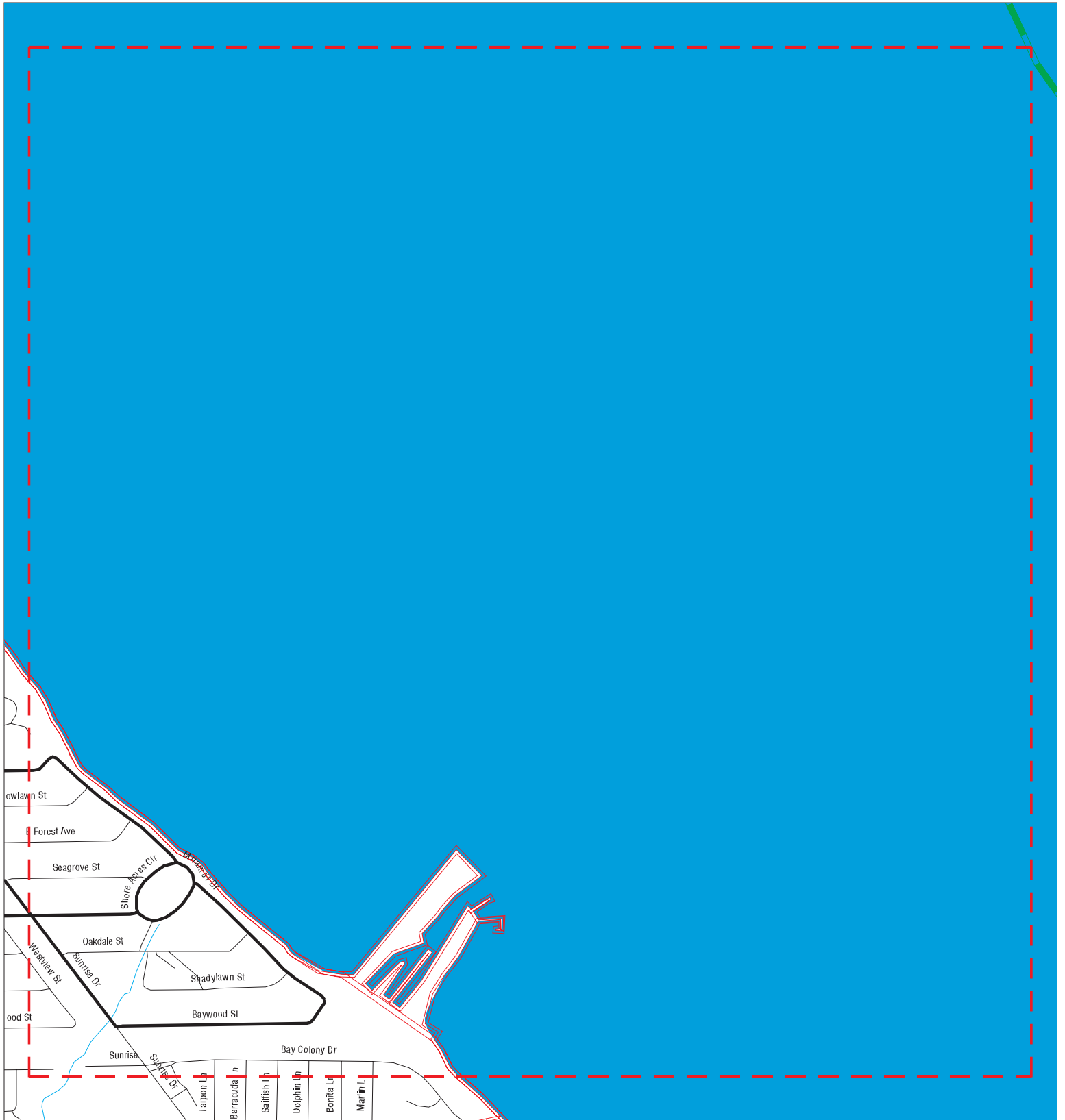
SITE NAME: CPIND Deepwater Channel ADDRESS: Harris & Chambers County CITY/STATE: Baytown TX ZIP: 77523	CLIENT: Anchor QEA, LLC CONTACT: Sara Flaherty INQUIRY #: 7379536.2s DATE: 06/30/23
---	--

MAPPED SITES SUMMARY - FOCUS MAP 11

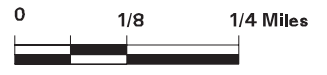
Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
22 / 11		TRINITY BAY	ERNS	TP

Focus Map - 12 - 7379536.2s



- ▲ Sites
- ↗ Target Property
- ↘ Search Buffer
- ↗ Focus Map - No Sites
- ⚡ Focus Map - Sites
- ⚡ Power Line
- ⚡ Pipe Line
- Dept. Defense Sites
- Indian Reservations BIA
- National Priority List Sites



SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 CITY/STATE: Baytown TX
 ZIP: 77523

CLIENT: Anchor QEA, LLC
 CONTACT: Sara Flaherty
 INQUIRY #: 7379536.2s
 DATE: 06/30/23

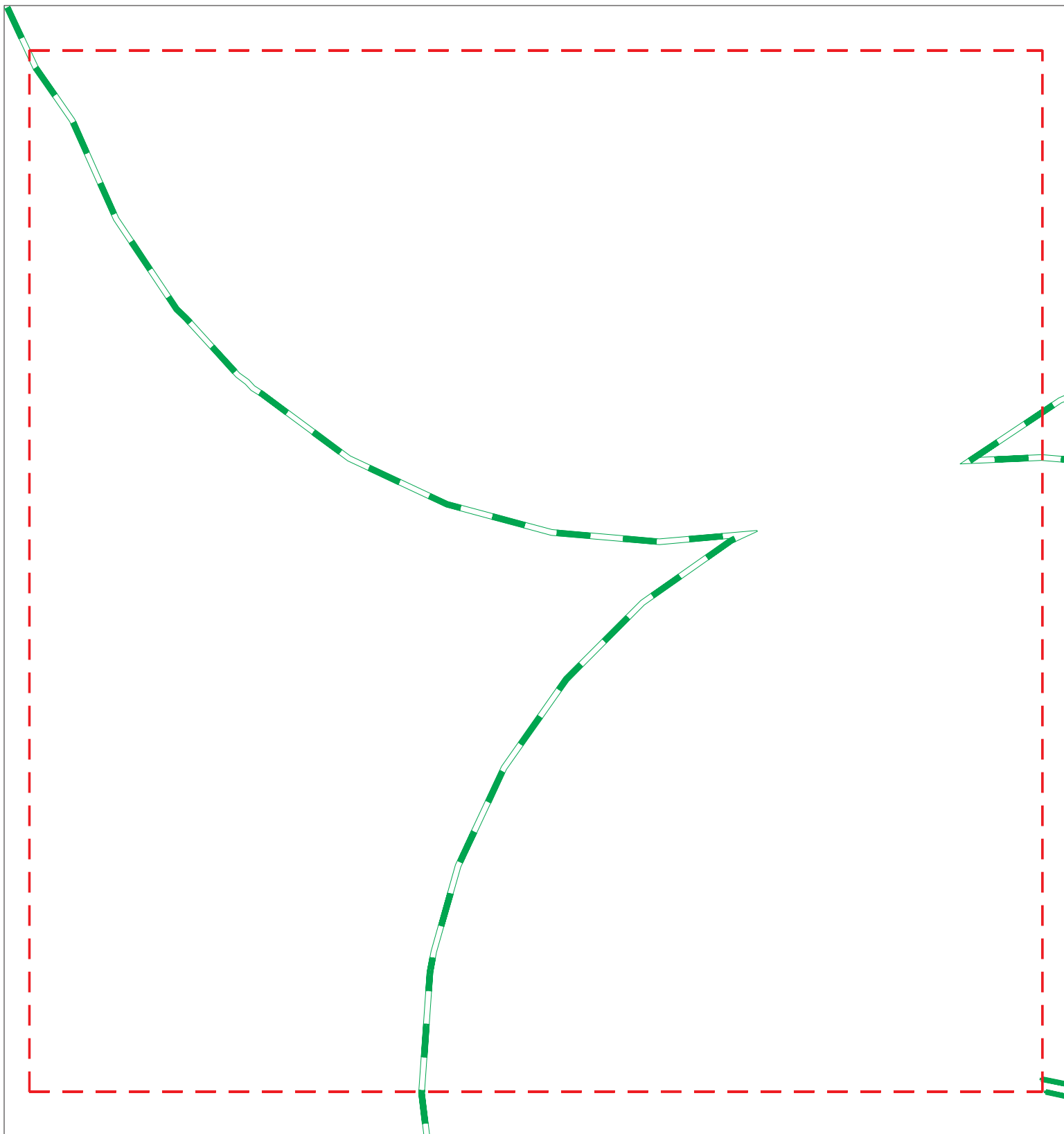
MAPPED SITES SUMMARY - FOCUS MAP 12











Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 13 - 7379536.2s



- | | | |
|---|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
CITY/STATE: Baytown TX
ZIP: 77523

CLIENT: Anchor QEA, LLC
CONTACT: Sara Flaherty
INQUIRY #: 7379536.2s
DATE: 06/30/23

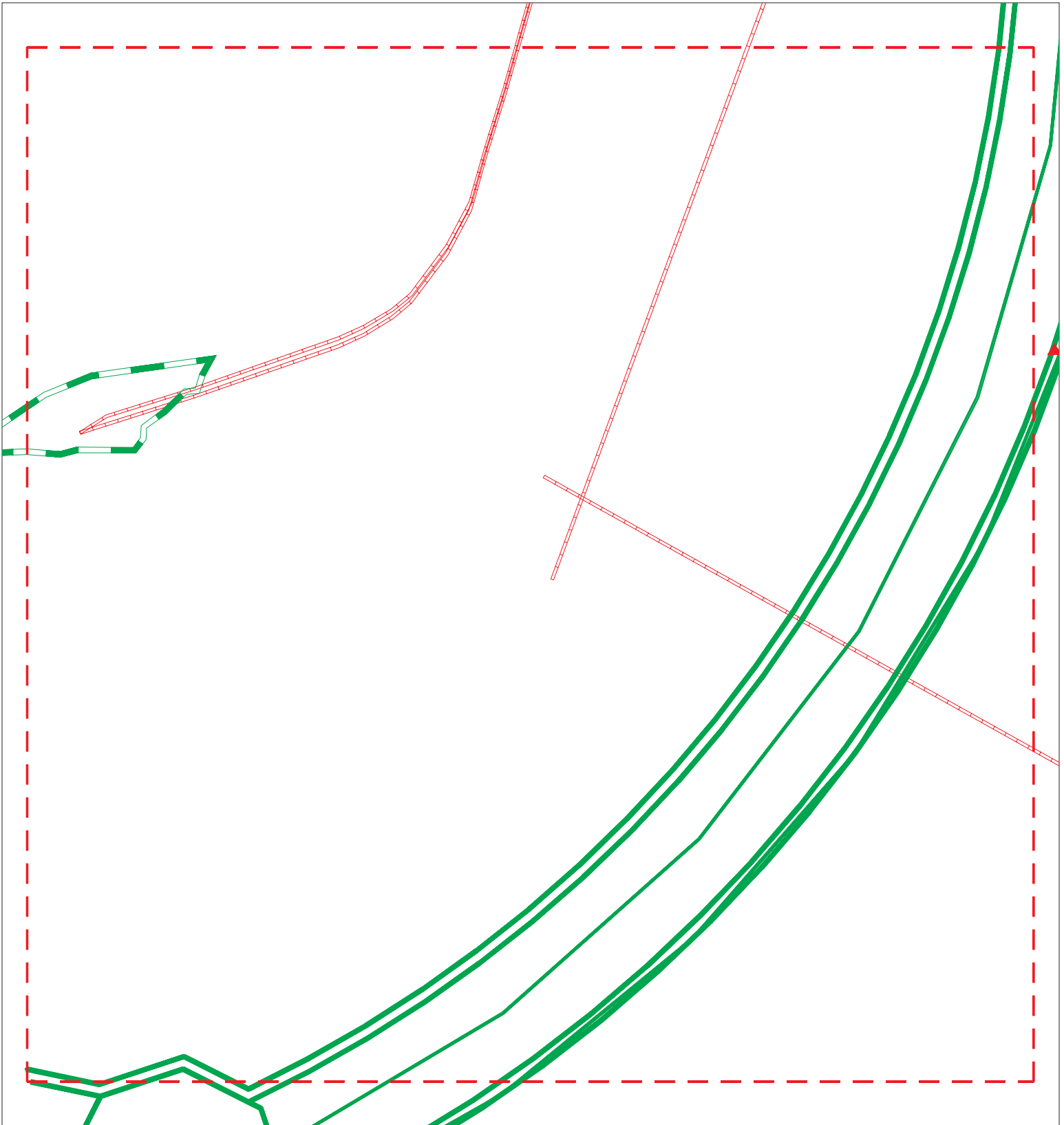
MAPPED SITES SUMMARY - FOCUS MAP 13











Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 14 - 7379536.2s



- | | | |
|---|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: CPIND Deepwater Channel ADDRESS: Harris & Chambers County CITY/STATE: Baytown TX ZIP: 77523	CLIENT: Anchor QEA, LLC CONTACT: Sara Flaherty INQUIRY #: 7379536.2s DATE: 06/30/23
---	--

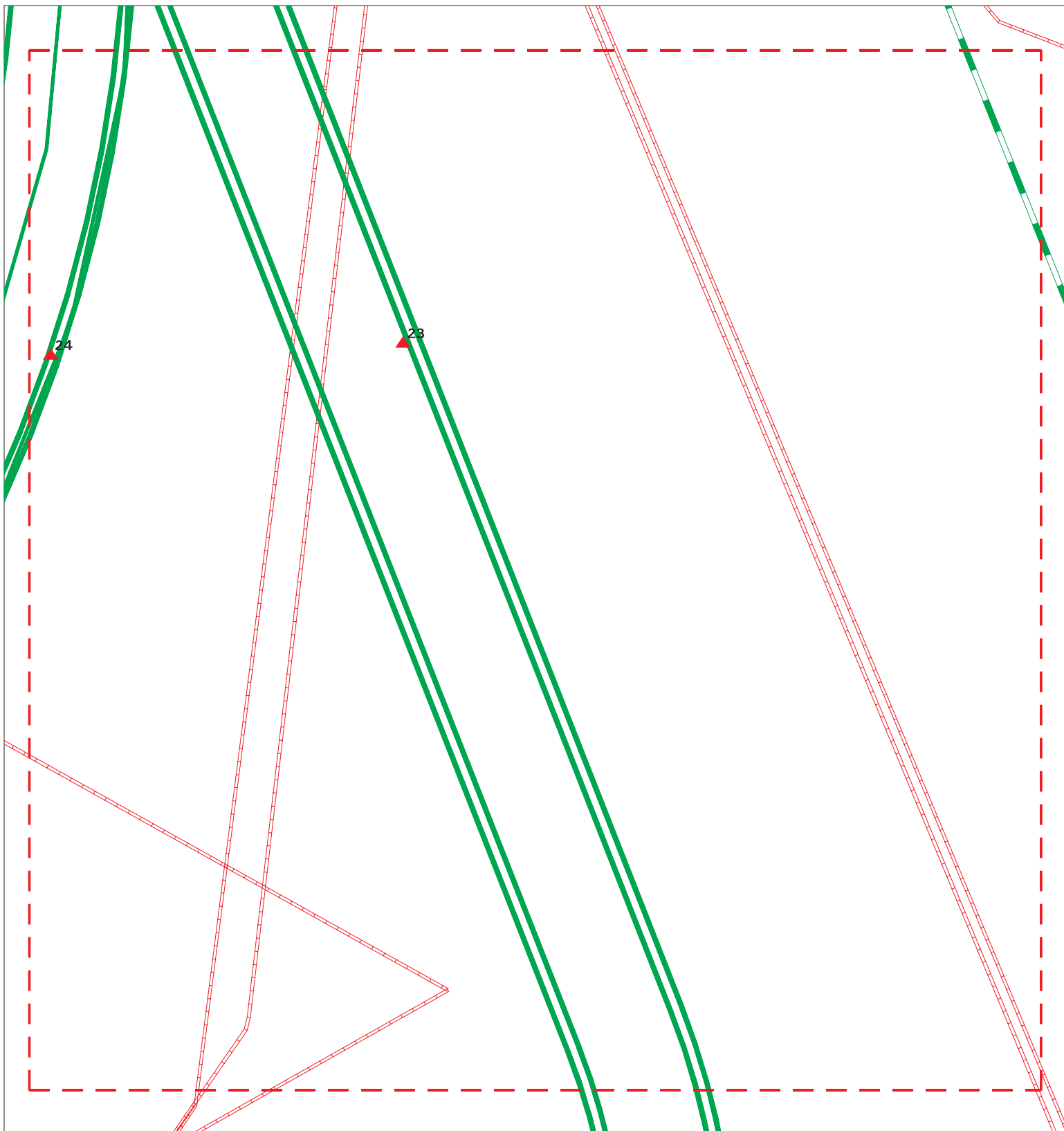
MAPPED SITES SUMMARY - FOCUS MAP 14

Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 15 - 7379536.2s



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- ▬ Focus Map - Sites
- ▬ Power Line
- ▬ Pipe Line
- Dept. Defense Sites
- Indian Reservations BIA
- National Priority List Sites



SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 CITY/STATE: Baytown TX
 ZIP: 77523

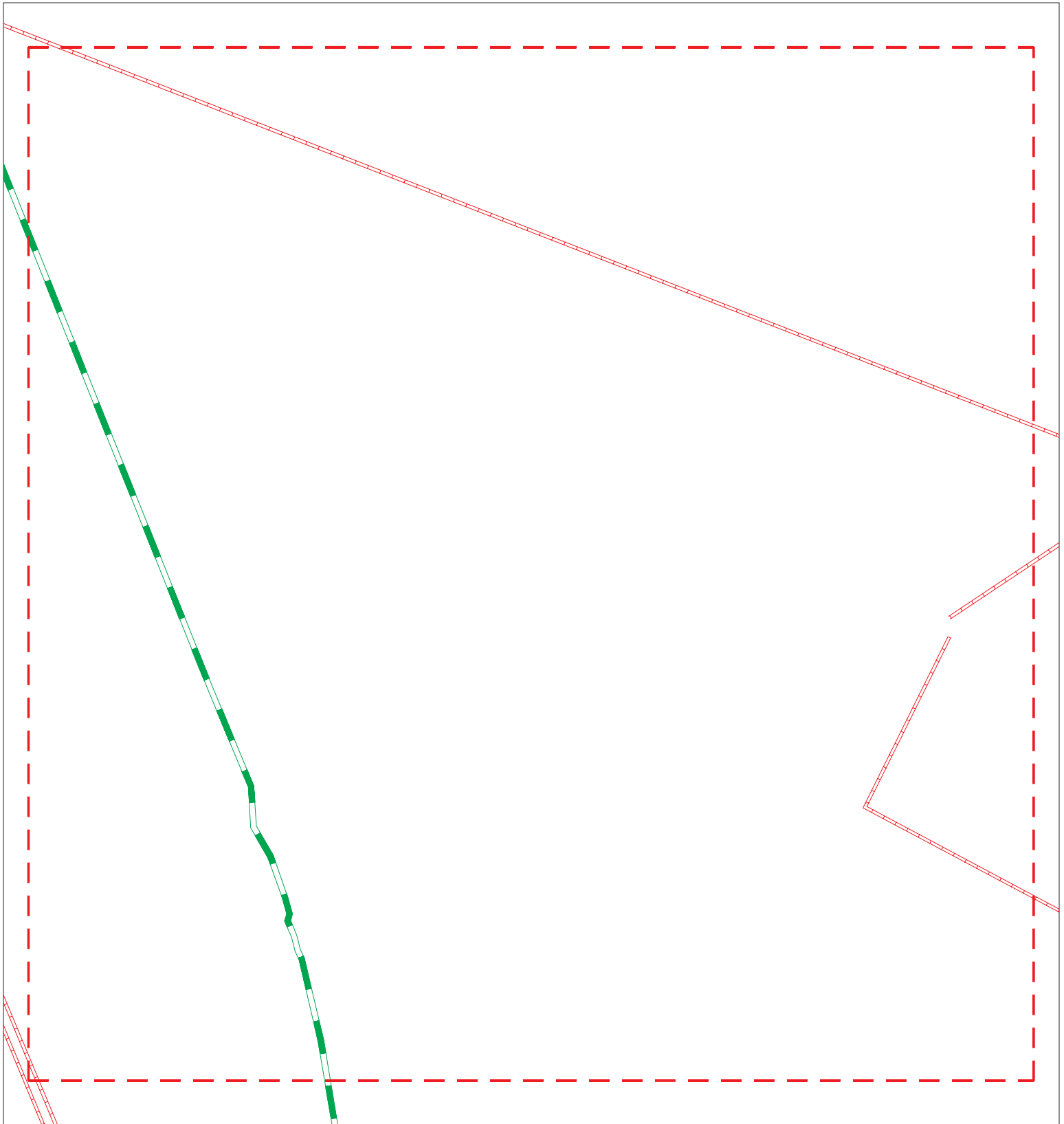
CLIENT: Anchor QEA, LLC
 CONTACT: Sara Flaherty
 INQUIRY #: 7379536.2s
 DATE: 06/30/23











MAPPED SITES SUMMARY - FOCUS MAP 15

Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
23 / 15		CEDAR POINT FIELD	ERNS	TP
24 / 15		SEE LAT/LONG	ERNS	TP

Focus Map - 16 - 7379536.2s



- | | | |
|--|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
CITY/STATE: Baytown TX
ZIP: 77523

CLIENT: Anchor QEA, LLC
CONTACT: Sara Flaherty
INQUIRY #: 7379536.2s
DATE: 06/30/23

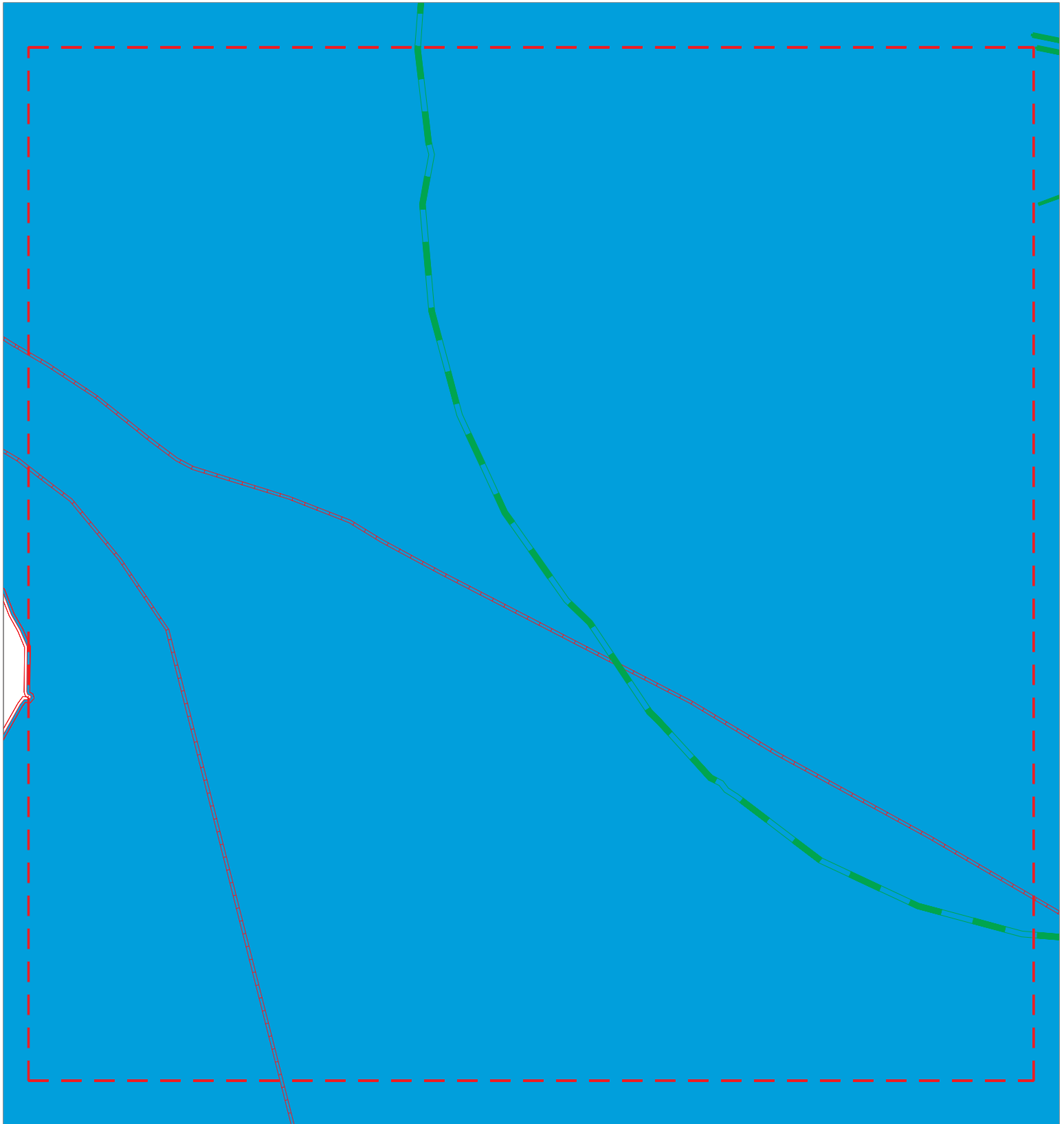
MAPPED SITES SUMMARY - FOCUS MAP 16











Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 17 - 7379536.2s



- | | | |
|--|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
CITY/STATE: Baytown TX
ZIP: 77523

CLIENT: Anchor QEA, LLC
CONTACT: Sara Flaherty
INQUIRY #: 7379536.2s
DATE: 06/30/23

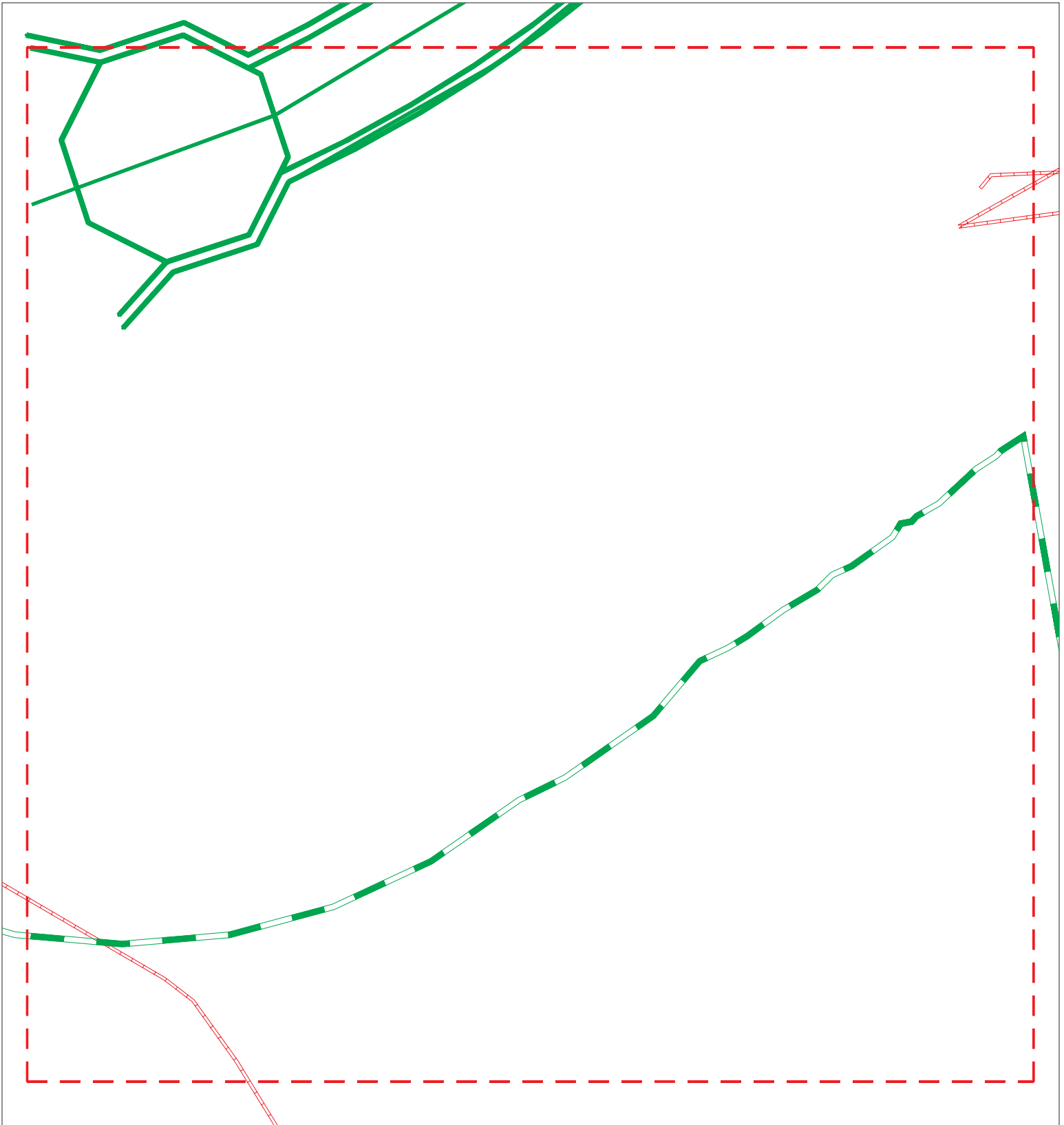
MAPPED SITES SUMMARY - FOCUS MAP 17











Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 18 - 7379536.2s



- | | | |
|--|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 CITY/STATE: Baytown TX
 ZIP: 77523

CLIENT: Anchor QEA, LLC
 CONTACT: Sara Flaherty
 INQUIRY #: 7379536.2s
 DATE: 06/30/23

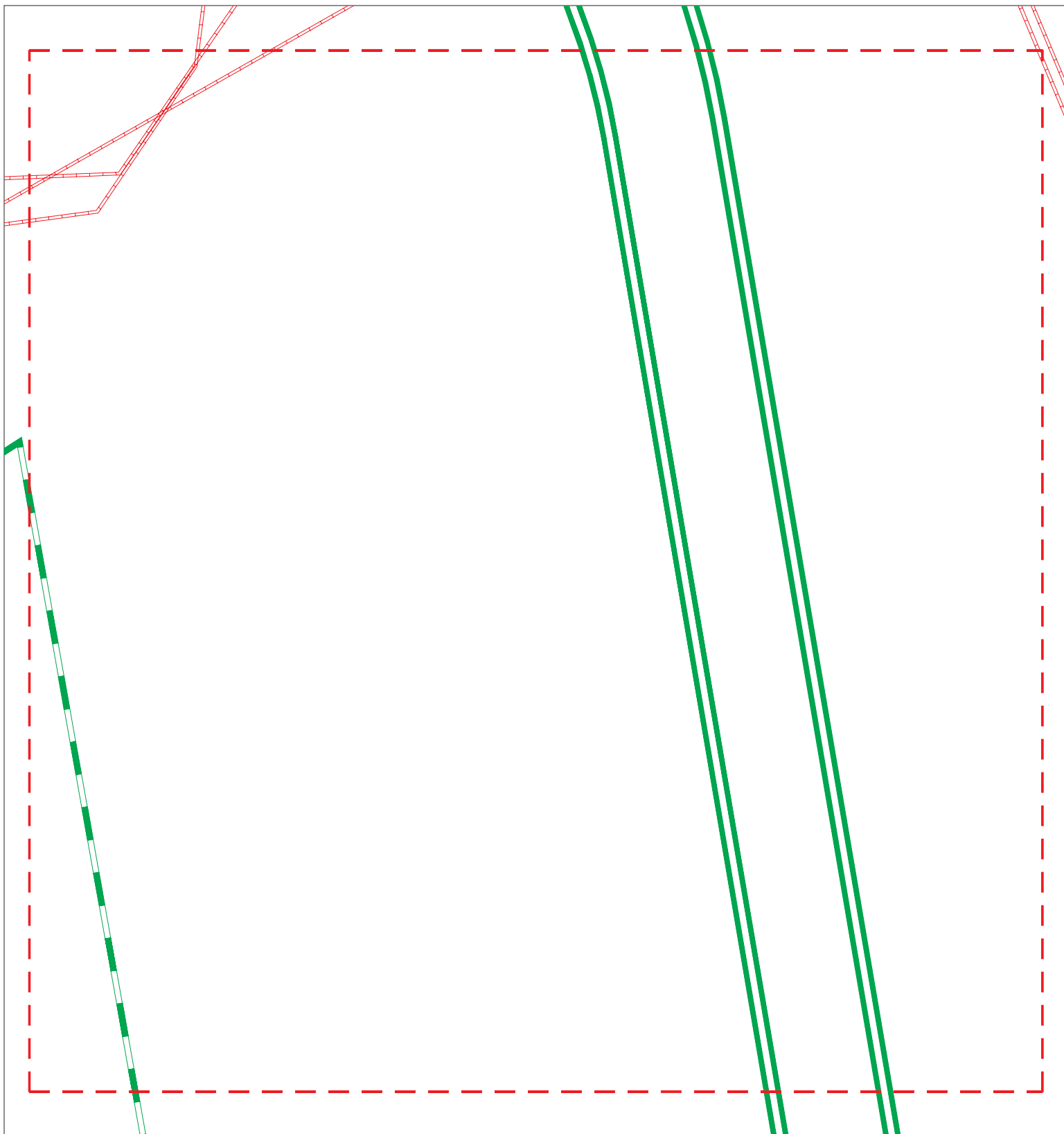
MAPPED SITES SUMMARY - FOCUS MAP 18











Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 19 - 7379536.2s



- | | | |
|---|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
CITY/STATE: Baytown TX
ZIP: 77523

CLIENT: Anchor QEA, LLC
CONTACT: Sara Flaherty
INQUIRY #: 7379536.2s
DATE: 06/30/23

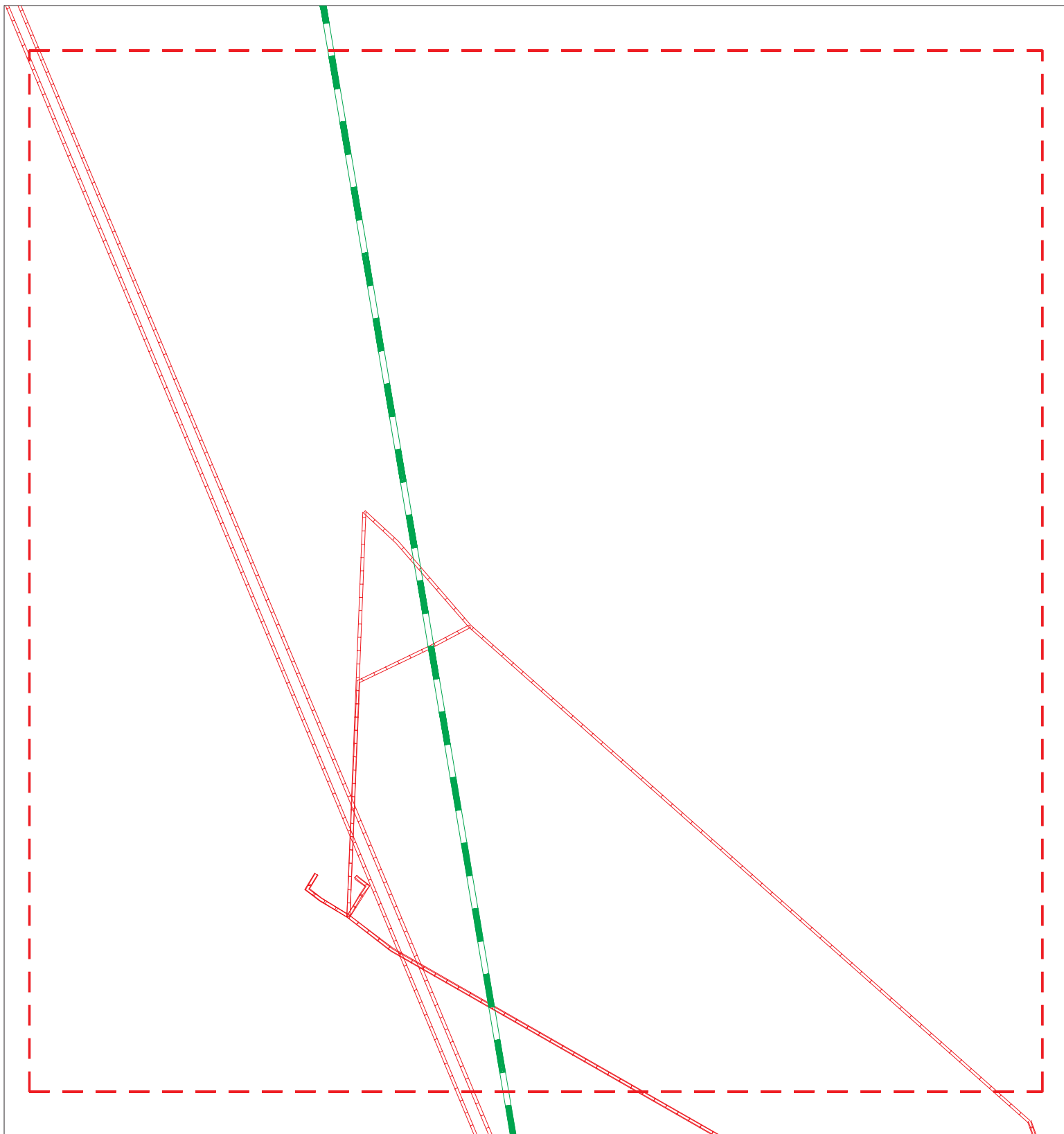
MAPPED SITES SUMMARY - FOCUS MAP 19











Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 20 - 7379536.2s



- | | | |
|---|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
CITY/STATE: Baytown TX
ZIP: 77523

CLIENT: Anchor QEA, LLC
CONTACT: Sara Flaherty
INQUIRY #: 7379536.2s
DATE: 06/30/23

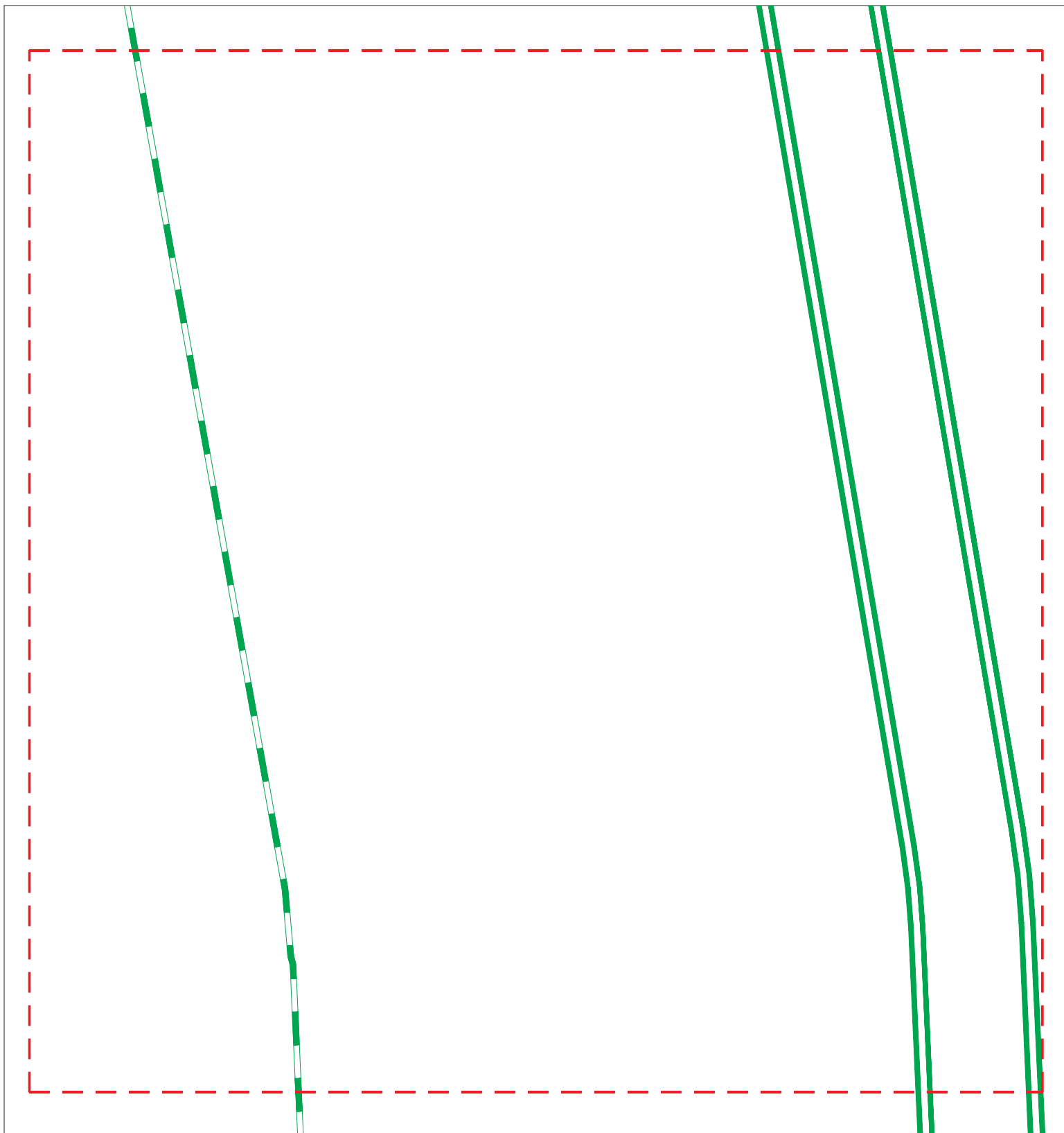
MAPPED SITES SUMMARY - FOCUS MAP 20











Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 21 - 7379536.2s



- | | | |
|---|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
CITY/STATE: Baytown TX
ZIP: 77523

CLIENT: Anchor QEA, LLC
CONTACT: Sara Flaherty
INQUIRY #: 7379536.2s
DATE: 06/30/23

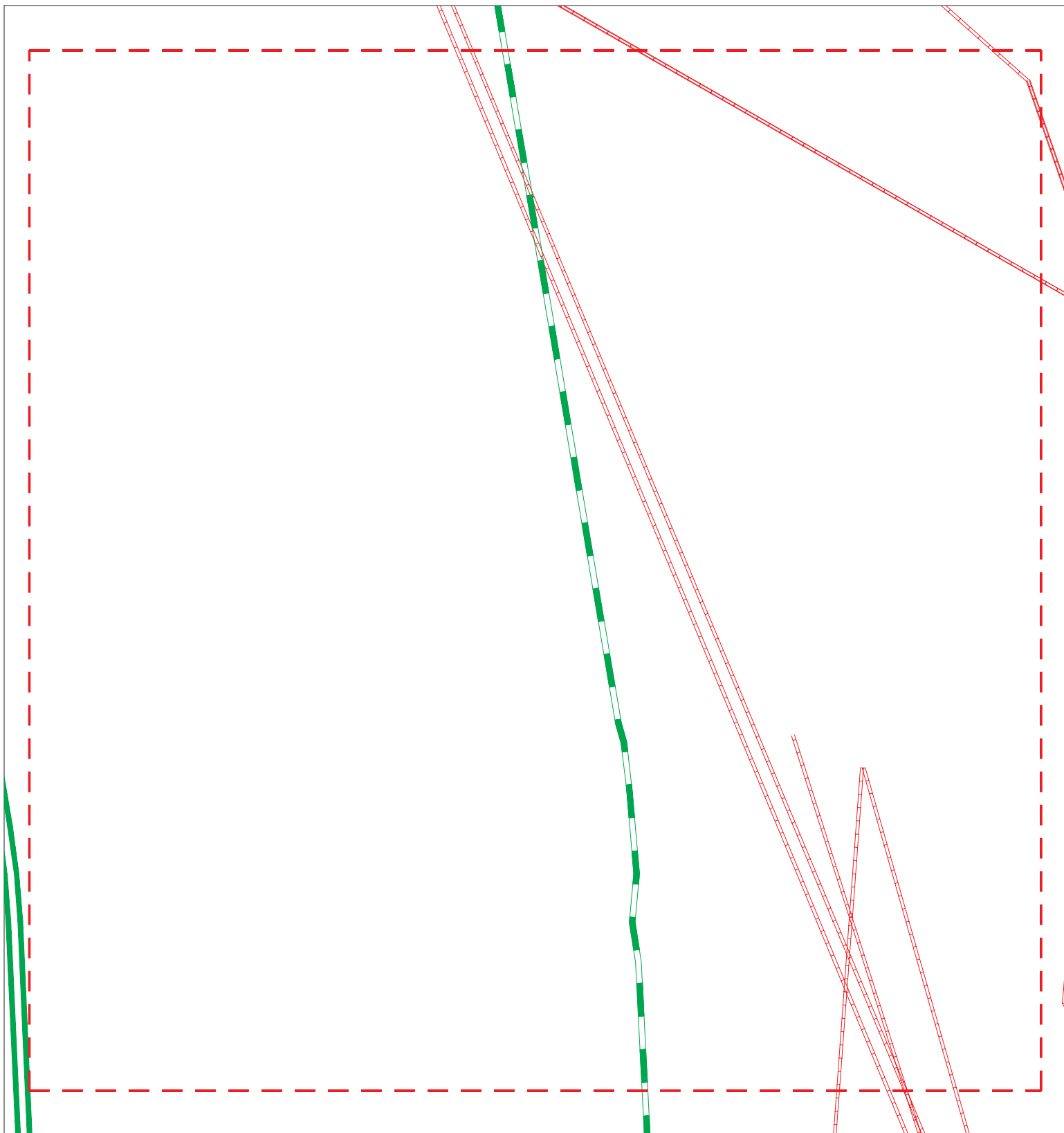
MAPPED SITES SUMMARY - FOCUS MAP 21











Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

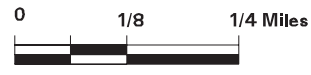
MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
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NO MAPPED SITES FOUND

Focus Map - 22 - 7379536.2s



- | | | |
|---|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 CITY/STATE: Baytown TX
 ZIP: 77523

CLIENT: Anchor QEA, LLC
 CONTACT: Sara Flaherty
 INQUIRY #: 7379536.2s
 DATE: 06/30/23

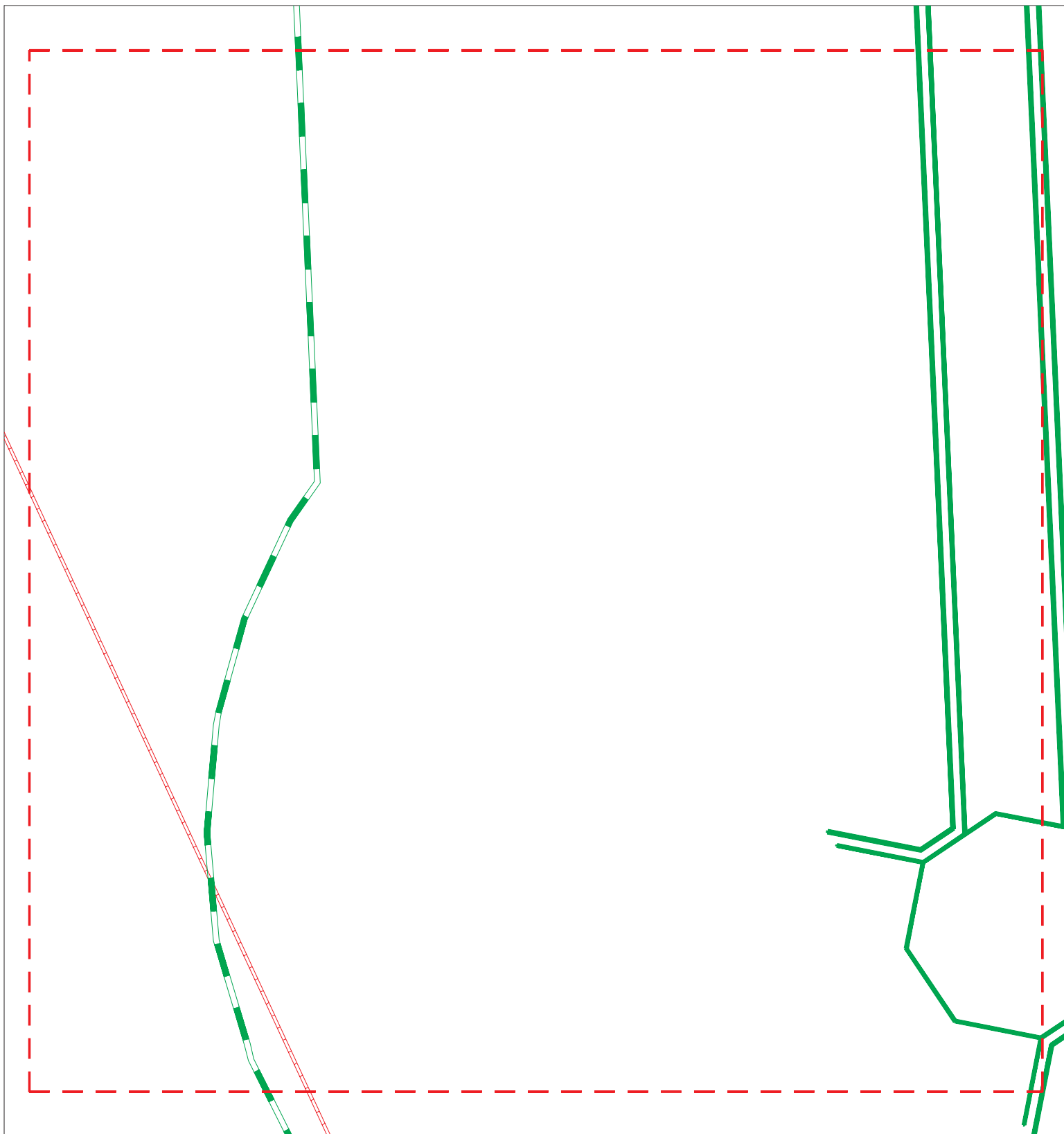
MAPPED SITES SUMMARY - FOCUS MAP 22











Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 23 - 7379536.2s



- | | | |
|---|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
CITY/STATE: Baytown TX
ZIP: 77523

CLIENT: Anchor QEA, LLC
CONTACT: Sara Flaherty
INQUIRY #: 7379536.2s
DATE: 06/30/23

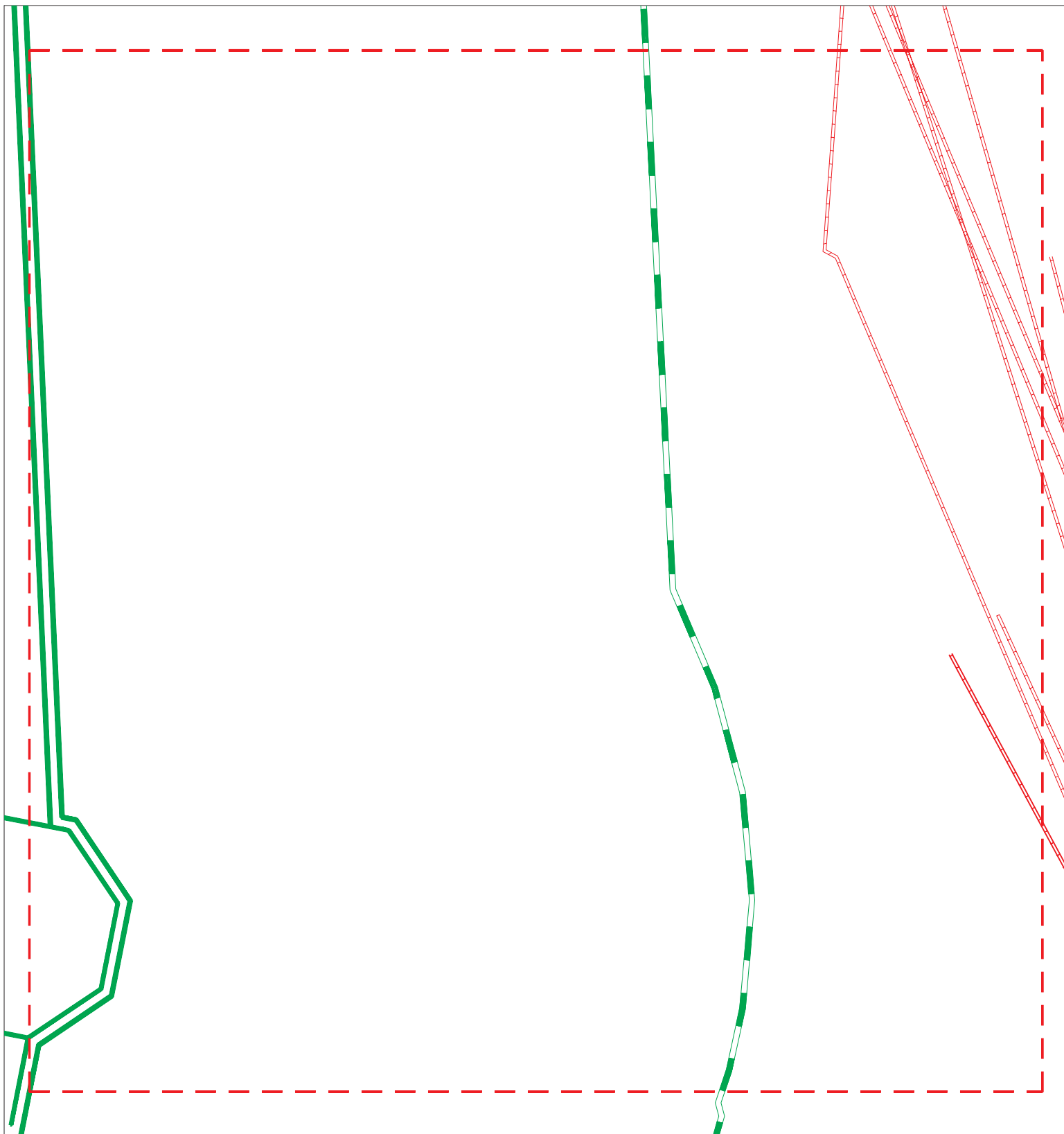
MAPPED SITES SUMMARY - FOCUS MAP 23











Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
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NO MAPPED SITES FOUND

Focus Map - 24 - 7379536.2s



- | | | | | | |
|---|----------------------|---|------------------------------|---|-------------------------|
|  | Sites |  | Focus Map - Sites |  | Dept. Defense Sites |
|  | Target Property |  | Power Line |  | Indian Reservations BIA |
|  | Search Buffer |  | Pipe Line | | |
|  | Focus Map - No Sites |  | National Priority List Sites | | |



SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 CITY/STATE: Baytown TX
 ZIP: 77523

CLIENT: Anchor QEA, LLC
 CONTACT: Sara Flaherty
 INQUIRY #: 7379536.2s
 DATE: 06/30/23

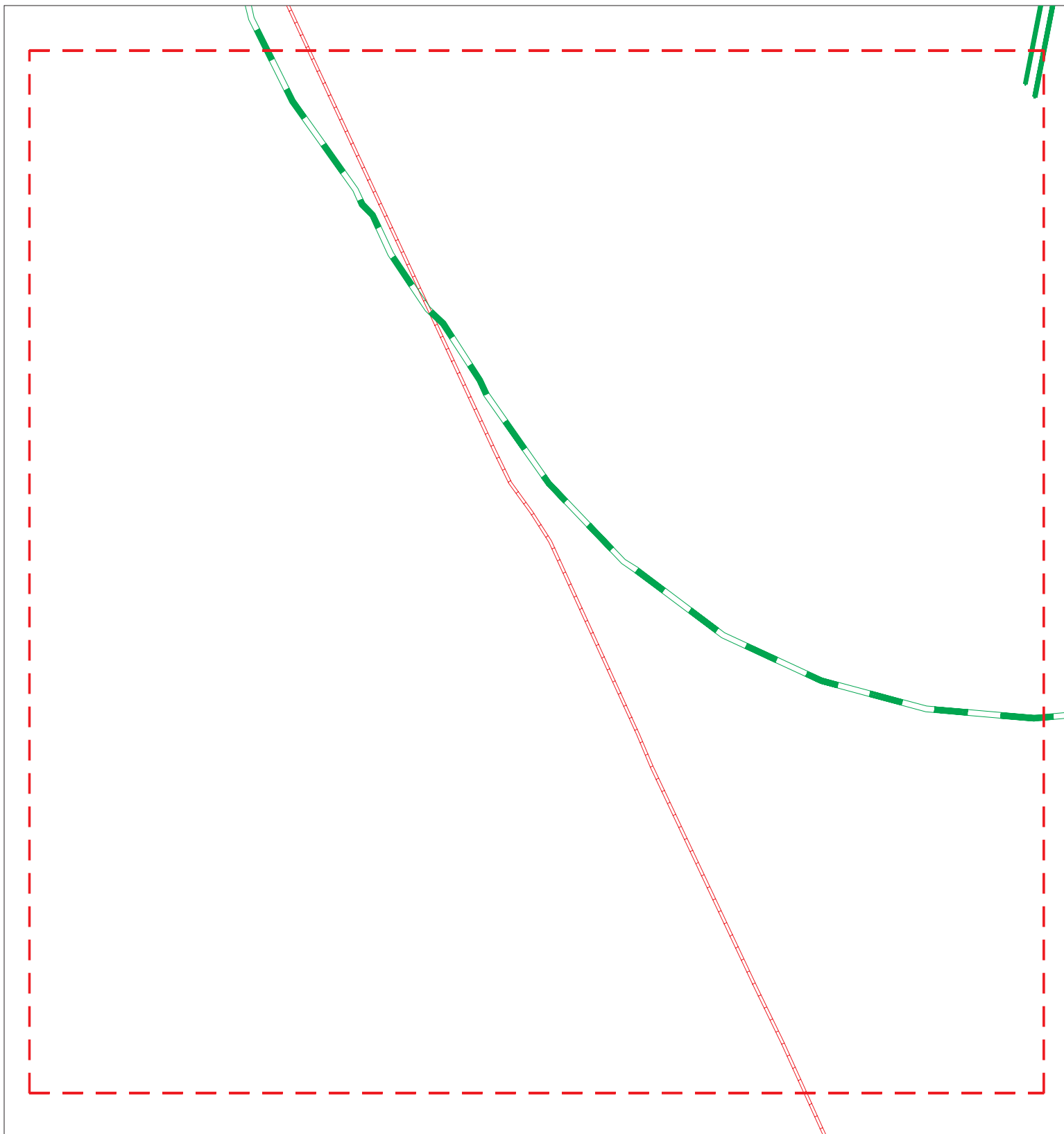
MAPPED SITES SUMMARY - FOCUS MAP 24











Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 25 - 7379536.2s



- | | | |
|---|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
CITY/STATE: Baytown TX
ZIP: 77523

CLIENT: Anchor QEA, LLC
CONTACT: Sara Flaherty
INQUIRY #: 7379536.2s
DATE: 06/30/23

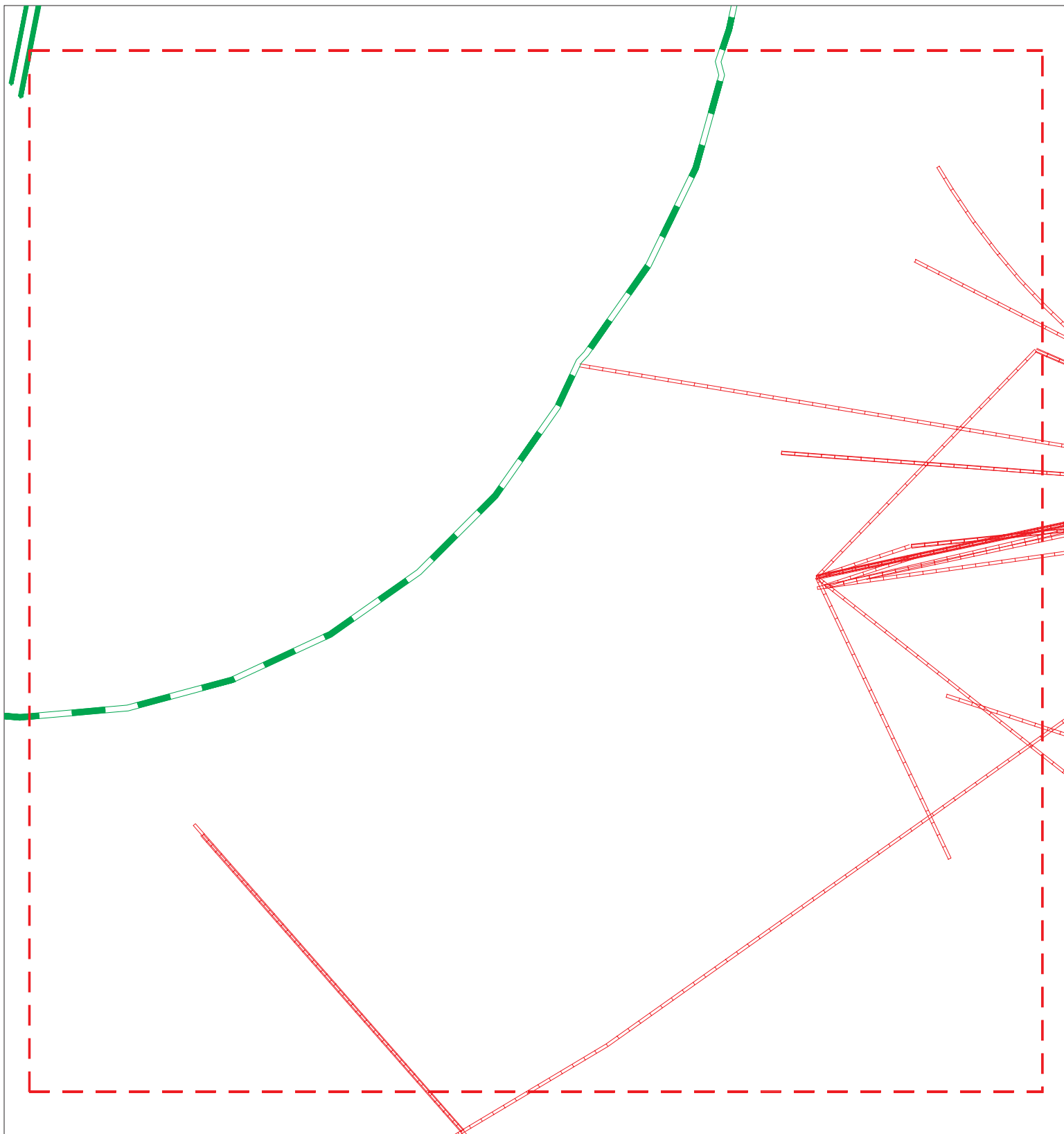
MAPPED SITES SUMMARY - FOCUS MAP 25











Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

Focus Map - 26 - 7379536.2s



- | | | |
|---|--|---|
|  Sites |  Focus Map - Sites |  Dept. Defense Sites |
|  Target Property |  Power Line |  Indian Reservations BIA |
|  Search Buffer |  Pipe Line | |
|  Focus Map - No Sites |  National Priority List Sites | |



SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
CITY/STATE: Baytown TX
ZIP: 77523

CLIENT: Anchor QEA, LLC
CONTACT: Sara Flaherty
INQUIRY #: 7379536.2s
DATE: 06/30/23

MAPPED SITES SUMMARY - FOCUS MAP 26

Target Property:
HARRIS & CHAMBERS COUNTY
BAYTOWN, TX 77520

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

MAP FINDINGS

Map ID			
Direction			
Distance			
Elevation	Site	Database(s)	EDR ID Number EPA ID Number

A1		ERNS	2007845630
Target			N/A
Property	HARRIS (County), TX		
	Site 1 of 5 in cluster A		
Actual:	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
0 ft.			
Focus Map:			
1			

A2		ERNS	2008870885
Target			N/A
Property	GALVESTON, TX		
	Site 2 of 5 in cluster A		
Actual:	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
0 ft.			
Focus Map:			
1			

A3		ERNS	2008859120
Target			N/A
Property	GALVESTON, TX		
	Site 3 of 5 in cluster A		
Actual:	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
0 ft.			
Focus Map:			
1			

A4		ERNS	2006805597
Target			N/A
Property	GALVESTON (County), TX		
	Site 4 of 5 in cluster A		
Actual:	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
0 ft.			
Focus Map:			
1			

MAP FINDINGS

Map ID Direction Distance Elevation		Database(s)	EDR ID Number EPA ID Number
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A5		ERNS	2006789817
Target Property	GALVESTON, TX		N/A
	Site 5 of 5 in cluster A		
Actual: 0 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
Focus Map: 1			

6		ERNS	2021296520
Target Property	BY CEDAR BAYOU CHANNEL LA PORTE, TX		N/A
	Site 5 of 5 in cluster A		
Actual: 0 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
Focus Map: 5			

7		ERNS	2019240199
Target Property	SEE LAT AND LONG HOUSTON, TX		N/A
	Site 1 of 1 in cluster A		
Actual: 0 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
Focus Map: 5			

B8		ERNS	2005749466
Target Property	GALVESTON (County), TX		N/A
	Site 1 of 14 in cluster B		
Actual: 0 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
Focus Map: 5			

MAP FINDINGS

Map ID Direction Distance Elevation		Database(s)	EDR ID Number EPA ID Number
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B9		ERNS	2005757606
Target Property	GALVESTON (County), TX		N/A
	Site 2 of 14 in cluster B		
Actual: 0 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
Focus Map: 5			

B10		ERNS	2001589837
Target Property	N/A GALVESTON, TX		N/A
	Site 3 of 14 in cluster B		
Actual: 0 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
Focus Map: 5			

B11		ERNS	2004745898
Target Property	GALVESTON (County), TX		N/A
	Site 4 of 14 in cluster B		
Actual: 0 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
Focus Map: 5			

B12		ERNS	2003655701
Target Property	GALVESTON (County), TX		N/A
	Site 5 of 14 in cluster B		
Actual: 0 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
Focus Map: 5			

MAP FINDINGS

Map ID				EDR ID Number
Direction				EPA ID Number
Distance				
Elevation	Site		Database(s)	

B13		ERNS	2003708767
Target			N/A
Property	GALVESTON (County), TX		
	Site 6 of 14 in cluster B		
Actual:			
0 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
Focus Map:			
5			

B14		ERNS	2004718822
Target			N/A
Property	GALVESTON, TX		
	Site 7 of 14 in cluster B		
Actual:			
0 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
Focus Map:			
5			

B15		ERNS	2003639268
Target			N/A
Property	GALVESTON (County), TX		
	Site 8 of 14 in cluster B		
Actual:			
0 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
Focus Map:			
5			

B16		ERNS	2009927342
Target	SEE LAT/LONG		N/A
Property	GALVESTON (County), TX		
	Site 9 of 14 in cluster B		
Actual:			
0 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
Focus Map:			
5			

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

B17		ERNS	2006788659
Target			N/A
Property	HARRIS (County), TX		
	Site 10 of 14 in cluster B		
Actual:	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
0 ft.			
Focus Map:			
5			

B18		ERNS	2009923492
Target			N/A
Property	GALVESTON (County), TX		
	Site 11 of 14 in cluster B		
Actual:	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
0 ft.			
Focus Map:			
5			

B19		ERNS	2006788539
Target			N/A
Property	GALVESTON (County), TX		
	Site 12 of 14 in cluster B		
Actual:	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
0 ft.			
Focus Map:			
5			

B20		ERNS	2006815595
Target			N/A
Property	GALVESTON (County), TX		
	Site 13 of 14 in cluster B		
Actual:	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
0 ft.			
Focus Map:			
5			

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

B21		ERNS	2005765155
Target			N/A
Property	GALVESTON (County), TX		
	Site 14 of 14 in cluster B		

Actual:
0 ft. [Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Focus Map:
5

22		ERNS	2012004549
Target	TRINITY BAY		N/A
Property	BAYTOWN, TX		

Actual:
0 ft. [Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Focus Map:
11

23		ERNS	9044597
Target	CEDAR POINT FIELD		N/A
Property	HARRIS (County), TX		

Actual:
0 ft. [Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Focus Map:
15

24		ERNS	2010934464
Target	SEE LAT/LONG		N/A
Property	BAYTOWN, TX		

Actual:
0 ft. [Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Focus Map:
15

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

25 **MONT BELVIEU TO MORGANSS POINT 16-INCH ETHYLENE HS**
WSW
< 1/8 **BAYTOWN, TX**
0.034 mi.
182 ft.

PFAS ECHO **1027389968**
N/A

Actual:
0 ft.
Focus Map:
4

PFAS ECHO:
 Name: MONT BELVIEU TO MORGANSS POINT 16-INCH ETHYLENE HSC PIPELIN
 Address: Not reported
 City,State,Zip: BAYTOWN, TX
 Latitude: 29.687056
 Longitude: -94.983363
 Count: 1
 County: Not reported
 Status: Inactive
 Region: 06
 Industry: Chemical Mfg
 ECHO Facility Report: <https://echo.epa.gov/detailed-facility-report?fid=110070948856>
 Facility Percent Minority: 71.889
 Facility Derived Tribes: -
 Facility Population: 957.13
 EPA Programs: CWA
 Federal Facility: No
 Federal Agency: -
 Facility FIPS Code: 48201
 Facility Indian Country Flag: N
 Facility Collection Method: -
 Facility Derived HUC: 12040104
 Facility Derived WBD: 120401040706
 Facility Derived CD113: -
 Facility Derived CB2010: 482012547001056
 Facility Major Flag: -
 Facility Active Flag: -
 Facility Inspection Count: 0
 Facility Date Last Inspection: -
 Facility Days Last Inspection: -
 Facility Informal Count: 0
 Facility Date Last Informal Action: -
 Facility Formal Action Count: 0
 Facility Date Last Formal Action: -
 Facility Total Penalties: 0
 Facility Penalty Count: -
 Facility Date Last Penalty: -
 Facility Last Penalty AMT: -
 Facility QTRS With NC: 0
 Facility Programs With SNC: 0
 Facility Compliance Status: -
 Facility SNC Flag: N
 AIR Flag: N
 NPDES Flag: Y
 SDWIS Flag: N
 RCRA Flag: N
 TRI Flag: N
 GHG Flag: N
 AIR IDS: -
 CAA Permit Types: -
 CAA NAICS: -
 CAA SICS: -
 NPDES IDS: TXR1594FL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONT BELVIEU TO MORGANSS POINT 16-INCH ETHYLENE HSC PIPELIN (Continued)

1027389968

CWA Permit Types:	Minor
CWA NAICS:	-
CWA SICS:	2869
RCRA IDS:	-
RCRA Permit Types:	-
RCRA NAICS:	-
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	Y
EJSCREEN Flag US:	Y
EJSCREEN Report:	https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-94.983363,%22y%22:29.687056,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BAYTOWN	S126897311	BAYTOWN TO MONT BELVIEU 12-INCH NITROGEN PIPELINE	ADDITIONAL COUNTY CHAMBERS THE PIPELINE ORIGINATES APPROXIMATELY 3.4 MILES NORTHWEST OF BAYTOWN IN HARRIS COUNTY AND TERMINATES APPROXIMATELY 2.2 MILES NORTHWEST OF MONT BELVIEU	77520	CENTRAL REGISTRY
BAYTOWN	S126882167	ALEXANDER ISLAND PLACEMENT AREA	THE SITE IS LOCATED AT ALEXANDER ISLAND PLACEMENT AREA BESIDE THE HOUSTON SHIP CHANNEL EAST OF BAYTOWN IN HARRIS COUNTY TX ACCESS TO THE SITE IS BY BOAT FROM BAYTOWN MARINA 2651 S HIGHWAY 146 BAYTOWN	77520	CENTRAL REGISTRY
BAYTOWN	S126923026	CENTERPOINT ENERGY - CEDAR BAYOU SUBSTATION	RECONDUCTORING LINE 87A-1 FROM THE CEDAR BAYOU SUBSTATION, STRUCTURE 25204, IN CHAMBERS COUNTY, TEXAS TO STRUCTURE 13435 IN TABBS BAY, BAYTOWN, HARRIS COUNTY, TEXAS.	77520	CENTRAL REGISTRY
BAYTOWN	S123863160	NORTH MAIN AUTO SALVAGE	NORTH MAIN AUTO SALVAGE HARRIS COUNTY	77520	CENTRAL REGISTRY
BAYTOWN	S126607375	ASHLAND CHEMICAL	HARRIS COUNTY		CENTRAL REGISTRY
BAYTOWN	S126749733	GRAND ISLE WWTP	FACILITY LOCATED 1 AND 7/8 MI SE OF INTXN OF SPUR 55 & FM 1405 ADJACENT TO CEDAR BAVOU IN HARRIS CO		CENTRAL REGISTRY
BAYTOWN	S126610819	OTFL 001	HARRIS COUNTY		CENTRAL REGISTRY
BAYTOWN	S126530693	LAKEWOOD PLANT	HARRIS COUNTY		CENTRAL REGISTRY
BAYTOWN	S126724764	DALASU WWTP	1 MI SOUTH EAST OF THE INTERSECTION OF I-10 AND NORTH MAIN ST IN HARRIS COUNTY		CENTRAL REGISTRY
BAYTOWN	S110506333	NEEDLEPOINT ROAD WWTP	LOCATED APPROX 1 M SE OF THE INTERSECTION OF I-10 AND SJOLANDER RD IN HARRIS COUNTY		ENF, COMP HIST
DEER PARK	S110657133	AKZO NOBEL CHEMICALS DEER PARK	LOCATED E OF AND ADJACENT TO ST HWY 134 APPROX 2500 FT N OF THE INTERSECTION OF ST HWY 134 AND 225 NEAR THE CITY OF LA PORTE HARRIS COUNTY TX KEY MAP - 539E	77571	SPILLS
HARRIS COUNTY	M300006144	CROWN CENTRAL PETROLEUM CORP	HARRIS COUNTY OPERATION		US MINES
HARRIS COUNTY	1024196932	SANIFILL OF TEXAS	HARRIS		FINDS
HARRIS COUNTY	1024175677	CITY OF HOUSTON BFU SITE	IN HARRIS COUNTY TEXAS APPROXIMATELY 1.5 MILES SOU		FINDS
HARRIS COUNTY	1024193233	EQUISTAR CHEMICALS PIPELINES HARRIS COUNTY	HARRIS COUNTY PIPELINE SEGMENTS		FINDS
HARRIS COUNTY	1024176089	TX DEPT OF TRANS PARCEL 269 HOUSTON	SH 35 AT CEDAR CREST RD, HOUSTON, HARRIS CO, TX		FINDS
HARRIS COUNTY	1024182970	WARRENGAS MARINE	HARRIS		FINDS
HARRIS COUNTY	1024181480	WCID 44 PLANT 3	HARRIS COUNTY		FINDS
HARRIS COUNTY	1024181481	WCID 44	HARRIS COUNTY		FINDS
HARRIS COUNTY	1024185589	GOODYEAR TIRE & RUBBER BAYPORT	HARRIS		FINDS
HARRIS COUNTY	1024187614	SEMINOLE PIPELINE HARRIS COUNTY	HARRIS COUNTY PIPELINE SEGMENT(S)		FINDS
HARRIS COUNTY	1024197071	HARRIS COUNTY MUD 266 WWTP	HARRIS		FINDS
HARRIS COUNTY	S126022382	BAYPORT FACILITY	12222 PORT DR PASADENA TX. HARRIS COUNTY		APAR
HARRIS COUNTY	S118904054	TX DEPT OF TRANS PARCEL 269 HOUSTON	SH 35 AT CEDAR CREST RD HOUSTON HARRIS CO TX		APAR
HARRIS COUNTY	S116382773	P-52 PIPELINE AT HANEY RD RELEASE SITE - HIGHLANDS	RELEASE SITE AT HANEY RD HARRIS CO NEAR HIGHLANDS TX		APAR
HARRIS COUNTY	S107636243	HALLIBURTON CO	HARRIS COUNTY		ENF
HARRIS COUNTY	S108104753	HOUSTON PUMP & METER	HARRIS CO		ENF, COMP HIST
HARRIS COUNTY	S115812067	SPRING MEADOWS SUBDIVISION	HARRIS		ENF, COMP HIST

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
HARRIS COUNTY	S110650992	PARKWAY MUD	HARRIS COUNTY		ENF, COMP HIST
HARRIS COUNTY	S125821084	HARRIS COUNTY MUD 536	APPROX 2700 FT WEST OF AND 1600 FT SOUTH OF THE INTERSECTION OF CLAY RD AND PORTER RD IN WEST HARRIS COUNTY		ENF
HARRIS COUNTY	S109115414	HARRIS COUNTY MUD 397	HARRIS COUNTY		ENF
HARRIS COUNTY	S110771142	NORTHEAST HARRIS COUNTY MUD 1 EDGEWOOD VILLAGE	HARRIS COUNTY		ENF
HARRIS COUNTY	S107645039	PLANT 2 HASTINGS GREEN	LOCATED AT 10421 NORTH ELDRIDGE PARKWAY, ON THE SOUTHERN BANK OF WHITEOAK BAYOU, APPROXIMATELY 2,000 FEET NORTH OF FARM-TO-MARKET ROAD 1960 AND 6,000 FEET EAST OF HUFFMEISTER ROAD IN HARRIS COUNTY, TE		ENF
HARRIS COUNTY	S129117705	WHEAT MEADOW MOBILE HOME PARK SECTION II	KM 371 Y HARRIS COUNTY		ENF
HARRIS COUNTY	S107651438	NOTTINGHAM COUNTRY MUD	2500 FEET EAST OF SOUTH FRY BLVD AND HIGHLAND KNOLLS BLVD, ADJACENT TO BARKER RESERVOIR, HARRIS CO		ENF, COMP HIST
HARRIS COUNTY	S118466880	HARRIS COUNTY IMPROVEMENT DISTRICT 18	HARRIS CO		ENF
HARRIS COUNTY	S118466871	HARRIS COUNTY MUD 449	HARRIS CO		ENF
HARRIS COUNTY	S126424529	REFUGE TEMPLE MINISTRIES	HARRIS COUNTY		ENF
HARRIS COUNTY	S110506104	FIRST STOP FOOD STORE	HARRIS COUNTY		ENF
HARRIS COUNTY	S108705114	PINEHURST LANDING	100 FT NW FROM INTERSECTION OF DOWDELL ROAD AND FM 2920 HARRIS COUNTY		ENF
HARRIS COUNTY	S118194084	SULZER CHEMTECH	HARRIS		ENF
HARRIS COUNTY	S118194425	RBD DEVELOPMENT FABRICATION SHOP	HARRIS COUNTY		ENF
HARRIS COUNTY	S110149156	JONES ROAD GROUND WATER PLUME	APPROX 1/2 MI N OF INTERSECTION OF JONES RD & FM 1960, NW HARRIS COUNTY		GCC
HARRIS COUNTY	S118855502	HARRIS COUNTY FLOOD CONTROL DISTRICT	HARRIS COUNTY FLOOD CONTROL DISTRICT		GCC
HARRIS COUNTY	S110148365	CASCO HAULING AND EXCAVATION LANDFIL	1306 EAST ANDERSON ROAD IN HOUSTON HARRIS COUNTY		GCC
HARRIS COUNTY	S126222625	HARRIS COUNTY MUD 459 WWTP	LOCATED APPROX 1 MI SE OF THE INTERX OF IH 10 AND SJOLANDER RD IN HARRIS CNTY		NPDES
HARRIS COUNTY	S126222466	D&D PROCESS EQUIPMENT	THIS PERMIT AUTHORIZES OPERATION OF THIS EQUIPMENT ONLY IN HARRIS COUNTY		NPDES
HARRIS COUNTY	S126222462	CITY OF HOUSTON AND HARRIS COUNTY AND HARRIS COUNTY FCD	THIS PERMIT COVERS ALL PORTIONS OF THE HOUSTON-HARRIS CNTY MUNICIPAL SEPARTE STORM SEWER SYSTEM MS4 OWNED OR OPERATED BY ANY PERMITTEE - CITY OF HOUSTON HARRIS COUNTY TX DEPT OF TRANS -HOUSTON DISTRIC		NPDES
HARRIS COUNTY	S126222434	WESTHOLLOW TECHNOLOGY CENTER	LOCATED ON THE E SIDE OF SH 6 APPROX 3000 FT S OF THE INTERX OF SH 6 AND FM 1093(WESTHEIMER-BEELER RD) IN HARRIS CNTY		NPDES
HARRIS COUNTY	S126222590	TOUR 18 WWTP	LOCATED APPROX 400 FT N OF WILL CLAYTON PKWY AND APPROX 1.6 MI E OF THE INTERX OF WILSON RD AND WILL CLAYTON PKWY IN HARRIS CNTY		NPDES
HARRIS COUNTY	S126222663	GRAND ISLE WWTP	LOCATED 1 & 7/8 MI SE OF THE INTERX OF SPUR 55 & FM 1405 ADJACENT TO CEDAR BAYOUIN HARRIS CNTY		NPDES
HARRIS COUNTY	S126222459	HALLIBURTON NORTHBELT FACILITY	LOCATED APPROX 1 MI S OF BUSH INTERCONTINENTAL AIRPORT AND 1 MI E OF ALDINE WESTFIELD RD AND 0.5 MI W OF JOHN KENNEDY BLVD IN HARRIS CNTY		NPDES
HARRIS COUNTY	S127508575	PECAN PLANTATION WWTP	LOCATED APPROX 0.25 MI S OF THE INTERX OF SPENCER HWY AND CANADA ST, 0.75 MI SWOF THE INTERX OF SPENCER HWY AND UNDERWOOD RD IN HARRIS CNTY		NPDES

Count: 71 records

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
HARRIS COUNTY	S127508557	DEEPWATER WWTP	LOCATED N OF THE 3600 BLOCK OF DARLING AVE, APPROX 4000 FT E-SE OF THE INTERX OF SOUTH AVE AND STATE HWY 225 IN HARRIS COUNTY		NPDES
HARRIS COUNTY	S127508558	VINCE BAYOU WWTP	LOCATED ON THE E AND W BANKS OF VINCE BAYOU, W OF MCDONALD ST AND N OF WEST RICHEY ACCESS RD IN HARRIS COUNTY		NPDES
HARRIS COUNTY	S127508587	RJR III REALTY	LOCATED APPROX 1500 FT N OF THE INTERX OF US 59 AND ALDINE MAIL RD, APPROX 200 FT W OF US 59 IN HARRIS CNTY		NPDES
HARRIS COUNTY	S129134938	ACCELERATED PRODUCTION	HARRIS		COMP HIST
HARRIS COUNTY	S124168611	HARRIS COUNTY PIPELINE	HARRIS COUNTY PIPELINE SEGMENT (S)		COMP HIST
LA PORTE	S126909436	SENS ROAD BUSINESS PARK	4,800 FEET WEST OF SH 146, APPROXIMATELY 6,760 FEET SOUTH OF SH 225 PASADENA FREEWAY AND 2,350 FEET NORTH OF SPENCER HIGHWAY, INSIDE LA PORTE CITY LIMITS, IN SOUTHEAST HARRIS COUNTY	77571	CENTRAL REGISTRY
LA PORTE	S126073188	ETHANOL SYSTEM 89 SITES PIPELINE FACILITY	HARRIS COUNTY PIPELINE SEGMENTS 292 FT WEST OF DELL DALE ST AND 375 FT NORTH OF I 10	77571	CENTRAL REGISTRY
LA PORTE	S126720683	AIR NATIONAL GUARD LA PORTE	IN HARRIS COUNTY NEAR LA PORTE	77571	CENTRAL REGISTRY
LA PORTE	S124164400	EQUISTAR CHEMICALS PIPELINES HARRIS COUNTY DEER PARK ETHYLENE METERING	HARRIS COUNTY PIPELINE SEGMENT MILLER CUT OFF ROAD 1 MILE EAST OF SH 134	77571	CENTRAL REGISTRY
LA PORTE	S124164401	EQUISTAR CHEMICALS PIPELINES HARRIS COUNTY 1 ETHYLENE METERING	HARRIS COUNTY PIPELINE SEGMENT BATTLEGROUND ROAD SH 134 0.75 MILES NORTH OF SH 225	77571	CENTRAL REGISTRY
LA PORTE	S126530643	FAIRMONT PARK PLANT	HARRIS CO	77571	CENTRAL REGISTRY
LA PORTE	S126519998	CITY OF LAPORTE	HARRIS COUNTY		CENTRAL REGISTRY
LA PORTE	S126537885	ALUMINUM CHLORIDE MANUFACTURING PLANT	LOCATED N OF & ADJACENT TO STRANG RD APPROX 0.5 MI E OF INTX OF STRANG RD & US HWY 225 LA PORTE HARRIS COUNTY		CENTRAL REGISTRY
LA PORTE	1011959636	ETHANOL SYSTEM 89 SITES PIPELINE FACILITY	HARRIS COUNTY PIPELINE SEGMENTS 292 FT WEST OF DEL	77571	FINDS
LA PORTE	S107641056	ALUMINUM CHLORIDE MANUFACTURING PLANT	LOCATED N OF & ADJACENT TO STRANG RD APPROX 0.5 MI E OF INTX OF STRANG RD & US HWY 225 LA PORTE HARRIS COUNTY		ENF, COMP HIST
MORGANS POINT	S126955431	CITY OF MORGANS POINT	LOCATED IN CITY OF MORGANS POINT, TX, HARRIS COUNTY. THE PROJECT IS GENERALLY BOUNDED ON NORTH BY E. MAIN ST., ON SOUTH BY HOME PROPERTY BOUNDARIES, ON EAST BY S. MAPLE ST., AND WEST BY S. MAGNOLIA AV	77571	CENTRAL REGISTRY
MORGANS POINT	1025815046	CITY OF MORGANS POINT	LOCATED IN CITY OF MORGANS POINT, TX, HARRIS COUNT	77571	FINDS
MORGANS POINT	1025478265	CITY OF MORGANS POINT	LOCATED IN CITY OF MORGANS POINT, TX, HARRIS COUNT	77571	ECHO

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/26/2023	Source: EPA
Date Data Arrived at EDR: 05/02/2023	Telephone: N/A
Date Made Active in Reports: 05/17/2023	Last EDR Contact: 06/02/2023
Number of Days to Update: 15	Next Scheduled EDR Contact: 07/10/2023
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/26/2023	Source: EPA
Date Data Arrived at EDR: 05/02/2023	Telephone: N/A
Date Made Active in Reports: 05/17/2023	Last EDR Contact: 06/02/2023
Number of Days to Update: 15	Next Scheduled EDR Contact: 07/10/2023
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 05/02/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 15

Source: EPA
Telephone: N/A
Last EDR Contact: 06/02/2023
Next Scheduled EDR Contact: 07/10/2023
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2023
Date Data Arrived at EDR: 03/28/2023
Date Made Active in Reports: 05/30/2023
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/23/2023
Next Scheduled EDR Contact: 10/09/2023
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 05/02/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 15

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/02/2023
Next Scheduled EDR Contact: 07/24/2023
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/26/2023	Source: EPA
Date Data Arrived at EDR: 05/02/2023	Telephone: 800-424-9346
Date Made Active in Reports: 05/17/2023	Last EDR Contact: 06/02/2023
Number of Days to Update: 15	Next Scheduled EDR Contact: 07/24/2023
	Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/06/2023	Source: EPA
Date Data Arrived at EDR: 03/09/2023	Telephone: 800-424-9346
Date Made Active in Reports: 03/20/2023	Last EDR Contact: 06/20/2023
Number of Days to Update: 11	Next Scheduled EDR Contact: 10/02/2023
	Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/06/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2023	Telephone: 214-665-6444
Date Made Active in Reports: 03/20/2023	Last EDR Contact: 06/20/2023
Number of Days to Update: 11	Next Scheduled EDR Contact: 10/02/2023
	Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/06/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2023	Telephone: 214-665-6444
Date Made Active in Reports: 03/20/2023	Last EDR Contact: 06/20/2023
Number of Days to Update: 11	Next Scheduled EDR Contact: 10/02/2023
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/06/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2023	Telephone: 214-665-6444
Date Made Active in Reports: 03/20/2023	Last EDR Contact: 06/20/2023
Number of Days to Update: 11	Next Scheduled EDR Contact: 10/02/2023
	Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/06/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2023	Telephone: 214-665-6444
Date Made Active in Reports: 03/20/2023	Last EDR Contact: 06/20/2023
Number of Days to Update: 11	Next Scheduled EDR Contact: 10/02/2023
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/08/2023	Source: Department of the Navy
Date Data Arrived at EDR: 02/09/2023	Telephone: 843-820-7326
Date Made Active in Reports: 05/02/2023	Last EDR Contact: 05/23/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 08/21/2023
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/20/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/21/2023	Telephone: 703-603-0695
Date Made Active in Reports: 05/02/2023	Last EDR Contact: 05/23/2023
Number of Days to Update: 70	Next Scheduled EDR Contact: 09/04/2023
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/20/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/21/2023	Telephone: 703-603-0695
Date Made Active in Reports: 05/02/2023	Last EDR Contact: 05/23/2023
Number of Days to Update: 70	Next Scheduled EDR Contact: 09/04/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/20/2023

Source: National Response Center, United States Coast Guard

Date Data Arrived at EDR: 03/21/2023

Telephone: 202-267-2180

Date Made Active in Reports: 05/30/2023

Last EDR Contact: 06/20/2023

Number of Days to Update: 70

Next Scheduled EDR Contact: 10/02/2023

Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

SHWS: State Superfund Registry

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 03/23/2023

Source: Texas Commission on Environmental Quality

Date Data Arrived at EDR: 03/29/2023

Telephone: 512-239-5680

Date Made Active in Reports: 06/20/2023

Last EDR Contact: 06/14/2023

Number of Days to Update: 83

Next Scheduled EDR Contact: 10/02/2023

Data Release Frequency: Semi-Annually

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Permitted Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 01/25/2023

Source: Texas Commission on Environmental Quality

Date Data Arrived at EDR: 01/26/2023

Telephone: 512-239-6706

Date Made Active in Reports: 04/18/2023

Last EDR Contact: 04/17/2023

Number of Days to Update: 82

Next Scheduled EDR Contact: 07/31/2023

Data Release Frequency: Quarterly

DEBRIS: DEBRIS

A listing of temporary debris management sites and MSW landfills for debris resulting from Hurricane Harvey.

Date of Government Version: 03/27/2018

Source: Texas Commission on Environmental Quality

Date Data Arrived at EDR: 04/04/2018

Telephone: 512-239-6840

Date Made Active in Reports: 06/08/2018

Last EDR Contact: 06/01/2023

Number of Days to Update: 65

Next Scheduled EDR Contact: 09/18/2023

Data Release Frequency: Varies

H-GAC CLI: Houston-Galveston Closed Landfill Inventory

Closed Landfill Inventory for the Houston-Galveston Area Council Region. In 1993, the Texas Legislature passed House Bill (HB) 2537, which required Councils of Governments (COGs) to develop an inventory of closed municipal solid waste landfills for their regional solid waste management plans.

Date of Government Version: 03/27/2023

Source: Houston-Galveston Area Council

Date Data Arrived at EDR: 03/29/2023

Telephone: 832-681-2518

Date Made Active in Reports: 06/13/2023

Last EDR Contact: 06/27/2023

Number of Days to Update: 76

Next Scheduled EDR Contact: 10/09/2023

Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CLI: Closed Landfill Inventory

Closed and abandoned landfills (permitted as well as unauthorized) across the state of Texas. For current information regarding any of the sites included in this database, contact the appropriate Council of Governments agency.

Date of Government Version: 08/30/1999	Source: Texas Commission on Environmental Quality
Date Data Arrived at EDR: 09/28/2000	Telephone: N/A
Date Made Active in Reports: 10/30/2000	Last EDR Contact: 06/26/2023
Number of Days to Update: 32	Next Scheduled EDR Contact: 10/09/2023
	Data Release Frequency: No Update Planned

WASTE MGMT: Commercial Hazardous & Solid Waste Management Facilities

This list contains commercial recycling facilities and facilities permitted or authorized (interim status) by the Texas Natural Resource Conservation Commission.

Date of Government Version: 10/16/2019	Source: Texas Commission on Environmental Quality
Date Data Arrived at EDR: 01/10/2020	Telephone: 512-239-2920
Date Made Active in Reports: 03/18/2020	Last EDR Contact: 06/29/2023
Number of Days to Update: 68	Next Scheduled EDR Contact: 10/09/2023
	Data Release Frequency: Varies

Lists of state and tribal leaking storage tanks

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/23/2022	Source: EPA Region 6
Date Data Arrived at EDR: 12/06/2022	Telephone: 214-665-6597
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 05/09/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/14/2022	Source: EPA, Region 5
Date Data Arrived at EDR: 12/06/2022	Telephone: 312-886-7439
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 05/09/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 11/23/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/06/2022	Telephone: 415-972-3372
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 05/09/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 11/23/2022	Source: EPA Region 8
Date Data Arrived at EDR: 12/06/2022	Telephone: 303-312-6271
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 05/08/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/14/2022	Source: EPA Region 7
Date Data Arrived at EDR: 12/06/2022	Telephone: 913-551-7003
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 05/09/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/19/2022	Source: EPA Region 1
Date Data Arrived at EDR: 12/06/2022	Telephone: 617-918-1313
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 05/09/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/26/2022	Source: EPA Region 4
Date Data Arrived at EDR: 12/06/2022	Telephone: 404-562-8677
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 05/09/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/23/2022	Source: EPA Region 10
Date Data Arrived at EDR: 12/06/2022	Telephone: 206-553-2857
Date Made Active in Reports: 04/19/2023	Last EDR Contact: 05/09/2023
Number of Days to Update: 134	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Varies

LPST: Leaking Petroleum Storage Tank Database

An inventory of reported leaking petroleum storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 03/28/2023	Source: Texas Commission on Environmental Quality
Date Data Arrived at EDR: 03/29/2023	Telephone: 512-239-2200
Date Made Active in Reports: 04/04/2023	Last EDR Contact: 06/14/2023
Number of Days to Update: 6	Next Scheduled EDR Contact: 10/02/2023
	Data Release Frequency: Quarterly

RDR: Release Determination Report Listing

An owner-operator permanently removing an underground storage tank system from service must determine whether a release of a stored regulated substance has occurred. Assemble and submit documentation of tank removal and release determination including the details of all excavation, removal, and sampling activities to the TCEQ using the PST Program's Release Determination Report form (TCEQ-00621).

Date of Government Version: 03/29/2023	Source: Texas Commission on Environmental Quality
Date Data Arrived at EDR: 03/30/2023	Telephone: 512-239-2081
Date Made Active in Reports: 04/04/2023	Last EDR Contact: 06/14/2023
Number of Days to Update: 5	Next Scheduled EDR Contact: 10/02/2023
	Data Release Frequency: Varies

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 05/30/2023
Number of Days to Update: 82

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 06/27/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Varies

UST: Petroleum Storage Tank Database

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 03/02/2023
Date Data Arrived at EDR: 03/22/2023
Date Made Active in Reports: 06/07/2023
Number of Days to Update: 77

Source: Texas Commission on Environmental Quality
Telephone: 512-239-2160
Last EDR Contact: 06/20/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Quarterly

AST: Petroleum Storage Tank Database

Registered Aboveground Storage Tanks.

Date of Government Version: 03/02/2023
Date Data Arrived at EDR: 03/22/2023
Date Made Active in Reports: 06/07/2023
Number of Days to Update: 77

Source: Texas Commission on Environmental Quality
Telephone: 512-239-2160
Last EDR Contact: 06/20/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 05/09/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 05/09/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/14/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 05/09/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/09/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/14/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/09/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 05/09/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/09/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 04/19/2023
Number of Days to Update: 134

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/09/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: Varies

TANKS: Petroleum Storage Tanks Listing

A list of facilities included on the Petroleum Storage Tank database that have no association as either underground or aboveground tanks.

Date of Government Version: 03/02/2023
Date Data Arrived at EDR: 03/22/2023
Date Made Active in Reports: 06/07/2023
Number of Days to Update: 77

Source: Texas Commission on Environmental Quality
Telephone: 512-239-0985
Last EDR Contact: 06/20/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Quarterly

State and tribal institutional control / engineering control registries

AUL: Sites with Controls

Activity and use limitations include both engineering controls and institutional controls.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/06/2023
Date Data Arrived at EDR: 04/06/2023
Date Made Active in Reports: 06/21/2023
Number of Days to Update: 76

Source: Texas Commission on Environmental Quality
Telephone: 512-239-5891
Last EDR Contact: 06/22/2023
Next Scheduled EDR Contact: 10/09/2023
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

VCP RRC: Voluntary Cleanup Program Sites

The 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.

Date of Government Version: 04/01/2023
Date Data Arrived at EDR: 04/12/2023
Date Made Active in Reports: 06/29/2023
Number of Days to Update: 78

Source: Railroad Commission of Texas
Telephone: 512-463-6969
Last EDR Contact: 04/10/2023
Next Scheduled EDR Contact: 07/24/2023
Data Release Frequency: Varies

VCP TCEQ: Voluntary Cleanup Program Database

The Texas Voluntary Cleanup Program was established to provide administrative, technical, and legal incentives to encourage the cleanup of contaminated sites in Texas.

Date of Government Version: 03/27/2023
Date Data Arrived at EDR: 03/29/2023
Date Made Active in Reports: 06/13/2023
Number of Days to Update: 76

Source: Texas Commission on Environmental Quality
Telephone: 512-239-5891
Last EDR Contact: 06/22/2023
Next Scheduled EDR Contact: 10/09/2023
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/13/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Site Assessments

Brownfield site assessments that are being cleaned under EPA grant monies.

Date of Government Version: 03/27/2023
Date Data Arrived at EDR: 03/29/2023
Date Made Active in Reports: 04/03/2023
Number of Days to Update: 5

Source: TCEQ
Telephone: 512-239-5872
Last EDR Contact: 06/22/2023
Next Scheduled EDR Contact: 10/09/2023
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

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. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 04/06/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/13/2023	Telephone: 202-566-2777
Date Made Active in Reports: 04/19/2023	Last EDR Contact: 06/08/2023
Number of Days to Update: 6	Next Scheduled EDR Contact: 09/25/2023
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

NCTCOG LI: North Central Landfill Inventory

North Central Texas Council of Governments landfill database.

Date of Government Version: 03/27/2023	Source: North Central Texas Council of Governments
Date Data Arrived at EDR: 03/29/2023	Telephone: 817-695-9223
Date Made Active in Reports: 06/14/2023	Last EDR Contact: 06/27/2023
Number of Days to Update: 77	Next Scheduled EDR Contact: 10/09/2023
	Data Release Frequency: Varies

CAPCOG LI: Capitol Area Landfill Inventory

Permitted and unpermitted landfills for the CAPCOG region. Serving Bastrop, Blanco, Burnet, Caldwell, Fayette, Hays, Lee, Llano, Travis, and Williamson Counties.

Date of Government Version: 11/11/2022	Source: Capital Area Council of Governments
Date Data Arrived at EDR: 05/23/2023	Telephone: 512-916-6000
Date Made Active in Reports: 06/05/2023	Last EDR Contact: 06/29/2023
Number of Days to Update: 13	Next Scheduled EDR Contact: 10/09/2023
	Data Release Frequency: Varies

SWRCY: Recycling Facility Listing

A listing of recycling facilities in the state.

Date of Government Version: 02/09/2023	Source: TCEQ
Date Data Arrived at EDR: 02/09/2023	Telephone: 512-239-6700
Date Made Active in Reports: 05/08/2023	Last EDR Contact: 05/04/2023
Number of Days to Update: 88	Next Scheduled EDR Contact: 08/21/2023
	Data Release Frequency: Varies

HIST LF: Historical Information About Municipal Solid Waste Facilities

An historical information listing old, closed unnumbered MSW landfills that were operated before permits were required, as well as unauthorized landfills and miscellaneous illegal dumps and disposal sites.

Date of Government Version: 02/01/2022	Source: Texas Commission on Environmental Quality
Date Data Arrived at EDR: 09/28/2022	Telephone: 512-239-2335
Date Made Active in Reports: 05/24/2023	Last EDR Contact: 04/17/2023
Number of Days to Update: 238	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/19/2023
Next Scheduled EDR Contact: 08/07/2023
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/12/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/27/2023
Next Scheduled EDR Contact: 08/07/2023
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 01/06/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 8

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/23/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Site Locations Listing

A listing of former clandestine drug site locations

Date of Government Version: 09/07/2021
Date Data Arrived at EDR: 12/09/2021
Date Made Active in Reports: 03/01/2022
Number of Days to Update: 82

Source: Department of Public Safety
Telephone: 512-424-2144
Last EDR Contact: 04/20/2023
Next Scheduled EDR Contact: 08/07/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRIORITY CLEANERS: Dry Cleaner Remediation Program Prioritization List

A listing of dry cleaner related contaminated sites.

Date of Government Version: 09/01/2022	Source: Texas Commission on Environmental Quality
Date Data Arrived at EDR: 11/30/2022	Telephone: 512-239-5658
Date Made Active in Reports: 02/13/2023	Last EDR Contact: 05/30/2023
Number of Days to Update: 75	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

DEL SHWS: Deleted Superfund Registry Sites

Sites have been deleted from the state Superfund registry in accordance with the Act, 361.189

Date of Government Version: 03/23/2023	Source: Texas Commission on Environmental Quality
Date Data Arrived at EDR: 03/29/2023	Telephone: 512-239-0666
Date Made Active in Reports: 06/20/2023	Last EDR Contact: 06/14/2023
Number of Days to Update: 83	Next Scheduled EDR Contact: 10/02/2023
	Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site 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.

Date of Government Version: 01/06/2023	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 02/02/2023	Telephone: 202-307-1000
Date Made Active in Reports: 02/10/2023	Last EDR Contact: 05/23/2023
Number of Days to Update: 8	Next Scheduled EDR Contact: 09/04/2023
	Data Release Frequency: Quarterly

CENTRAL REGISTRY: The Central Registry

The Central Registry, a common record area of the TCEQ, maintains information about TCEQ customers and regulated activities, such as company names, addresses, and telephone numbers. This information is commonly referred to as "core data". The Central Registry provides the regulated community with a central access point within the agency to check core data and make changes when necessary.

Date of Government Version: 09/30/2022	Source: Texas Commission on Environmental Quality
Date Data Arrived at EDR: 10/04/2022	Telephone: 512-239-5175
Date Made Active in Reports: 12/27/2022	Last EDR Contact: 06/22/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/09/2023
	Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

NON REGIST PST: Petroleum Storage Tank Non Registered

A listing of non-registered petroleum storage tank site locations.

Date of Government Version: 03/31/2023	Source: Texas Commission on Environmental Quality
Date Data Arrived at EDR: 04/04/2023	Telephone: 512-239-2081
Date Made Active in Reports: 06/22/2023	Last EDR Contact: 04/04/2023
Number of Days to Update: 79	Next Scheduled EDR Contact: 08/14/2023
	Data Release Frequency: Quarterly

Local Land Records

HIST LIENS: Environmental Liens Listing

This listing contains information fields that are no longer tracked in the LIENS database.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/23/2007
Date Data Arrived at EDR: 03/23/2007
Date Made Active in Reports: 05/02/2007
Number of Days to Update: 40

Source: Texas Commission on Environmental Quality
Telephone: 512-239-2209
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

LIENS: Environmental Liens Listing

The listing covers TCEQ liens placed against either State Superfund sites or Federal Superfund sites to recover cost incurred by TCEQ.

Date of Government Version: 03/27/2023
Date Data Arrived at EDR: 03/29/2023
Date Made Active in Reports: 04/03/2023
Number of Days to Update: 5

Source: Texas Commission on Environmental Quality
Telephone: 512-239-2209
Last EDR Contact: 06/22/2023
Next Scheduled EDR Contact: 10/09/2023
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA 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.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 05/02/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/02/2023
Next Scheduled EDR Contact: 07/10/2023
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/19/2023
Date Data Arrived at EDR: 03/21/2023
Date Made Active in Reports: 05/30/2023
Number of Days to Update: 70

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/20/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Quarterly

SPILLS: Spills Database

Spills reported to the Emergency Response Division.

Date of Government Version: 04/10/2023
Date Data Arrived at EDR: 04/12/2023
Date Made Active in Reports: 06/29/2023
Number of Days to Update: 78

Source: Texas Commission on Environmental Quality
Telephone: 512-239-5100
Last EDR Contact: 04/12/2023
Next Scheduled EDR Contact: 07/24/2023
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 10/23/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/15/2005
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/06/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 214-665-6444
Last EDR Contact: 06/20/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 02/01/2023
Date Data Arrived at EDR: 02/14/2023
Date Made Active in Reports: 05/02/2023
Number of Days to Update: 77

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/16/2023
Next Scheduled EDR Contact: 08/28/2023
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/11/2023
Next Scheduled EDR Contact: 07/24/2023
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/03/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/11/2023
Next Scheduled EDR Contact: 08/21/2023
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/13/2023
Date Data Arrived at EDR: 03/21/2023
Date Made Active in Reports: 05/30/2023
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/20/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/01/2023
Next Scheduled EDR Contact: 08/14/2023
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/04/2023
Next Scheduled EDR Contact: 08/14/2023
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/16/2023
Next Scheduled EDR Contact: 09/25/2023
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 02/16/2023
Date Made Active in Reports: 05/02/2023
Number of Days to Update: 75

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/19/2023
Next Scheduled EDR Contact: 08/28/2023
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 01/17/2023
Date Data Arrived at EDR: 01/18/2023
Date Made Active in Reports: 04/19/2023
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/18/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 05/02/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 15

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/02/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 06/12/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/26/2023	Source: EPA
Date Data Arrived at EDR: 05/02/2023	Telephone: 202-564-6023
Date Made Active in Reports: 05/17/2023	Last EDR Contact: 06/02/2023
Number of Days to Update: 15	Next Scheduled EDR Contact: 08/14/2023
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

Date of Government Version: 03/20/2023	Source: EPA
Date Data Arrived at EDR: 04/04/2023	Telephone: 202-566-0500
Date Made Active in Reports: 06/09/2023	Last EDR Contact: 04/04/2023
Number of Days to Update: 66	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 06/27/2023
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/16/2023
	Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/15/2023	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/21/2023	Telephone: 301-415-7169
Date Made Active in Reports: 05/30/2023	Last EDR Contact: 04/13/2023
Number of Days to Update: 70	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020	Source: Department of Energy
Date Data Arrived at EDR: 11/30/2021	Telephone: 202-586-8719
Date Made Active in Reports: 02/22/2022	Last EDR Contact: 05/25/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 05/25/2023
Number of Days to Update: 251	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 05/04/2023
Number of Days to Update: 96	Next Scheduled EDR Contact: 08/14/2023
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 06/22/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/09/2023
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/25/2023
Next Scheduled EDR Contact: 08/07/2023
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 01/12/2023
Date Made Active in Reports: 04/07/2023
Number of Days to Update: 85

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/27/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/20/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/06/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 04/26/2023
Next Scheduled EDR Contact: 08/14/2023
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/24/2023
Next Scheduled EDR Contact: 08/28/2023
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 05/02/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/02/2023
Next Scheduled EDR Contact: 07/10/2023
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/02/2023
Date Data Arrived at EDR: 02/22/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/24/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/03/2023
Date Data Arrived at EDR: 04/04/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 66

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 05/24/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 01/07/2022
Date Data Arrived at EDR: 02/24/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 82

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/25/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/25/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

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.

Date of Government Version: 03/17/2023
Date Data Arrived at EDR: 03/17/2023
Date Made Active in Reports: 05/30/2023
Number of Days to Update: 74

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/13/2023
Next Scheduled EDR Contact: 09/18/2023
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/02/2023
Date Data Arrived at EDR: 02/28/2023
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 24

Source: EPA
Telephone: (214) 665-2200
Last EDR Contact: 05/25/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/25/2023
Date Data Arrived at EDR: 03/31/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/29/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/21/2021	Telephone: 202-564-0527
Date Made Active in Reports: 08/11/2021	Last EDR Contact: 05/17/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 09/04/2023
	Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 11/09/2021	Source: Department of Defense
Date Data Arrived at EDR: 10/20/2022	Telephone: 703-704-1564
Date Made Active in Reports: 01/10/2023	Last EDR Contact: 04/27/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 07/24/2023
	Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/13/2023	Source: EPA
Date Data Arrived at EDR: 02/14/2023	Telephone: 800-385-6164
Date Made Active in Reports: 04/19/2023	Last EDR Contact: 05/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 08/28/2023
	Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 06/07/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/08/2023	Telephone: 703-603-8895
Date Made Active in Reports: 06/09/2023	Last EDR Contact: 06/08/2023
Number of Days to Update: 1	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 03/30/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/30/2023	Telephone: 202-272-0167
Date Made Active in Reports: 04/07/2023	Last EDR Contact: 03/30/2023
Number of Days to Update: 8	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 03/30/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/30/2023	Telephone: 202-272-0167
Date Made Active in Reports: 06/09/2023	Last EDR Contact: 03/30/2023
Number of Days to Update: 71	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 03/30/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/30/2023	Telephone: 202-272-0167
Date Made Active in Reports: 05/02/2023	Last EDR Contact: 03/30/2023
Number of Days to Update: 33	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020	Source: Department of Health & Human Services
Date Data Arrived at EDR: 03/17/2021	Telephone: 202-741-5770
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 04/20/2023
Number of Days to Update: 601	Next Scheduled EDR Contact: 08/07/2023
	Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 03/30/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/30/2023	Telephone: 202-272-0167
Date Made Active in Reports: 05/02/2023	Last EDR Contact: 03/30/2023
Number of Days to Update: 33	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits.

Date of Government Version: 03/30/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/30/2023	Telephone: 202-272-0167
Date Made Active in Reports: 04/07/2023	Last EDR Contact: 03/30/2023
Number of Days to Update: 8	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 03/30/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/30/2023	Telephone: 202-272-0167
Date Made Active in Reports: 04/03/2023	Last EDR Contact: 03/30/2023
Number of Days to Update: 4	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facility's name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 03/30/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/30/2023	Telephone: 202-272-0167
Date Made Active in Reports: 04/03/2023	Last EDR Contact: 03/30/2023
Number of Days to Update: 4	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration's document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 03/30/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/30/2023	Telephone: 202-272-0167
Date Made Active in Reports: 04/03/2023	Last EDR Contact: 03/30/2023
Number of Days to Update: 4	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 04/27/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/27/2023	Telephone: 202-272-0167
Date Made Active in Reports: 05/02/2023	Last EDR Contact: 04/27/2023
Number of Days to Update: 5	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

PFOS and PFOA stand for perfluorooctane sulfonate and perfluorooctanoic acid, respectively. Both are fluorinated organic chemicals, part of a larger family of compounds referred to as perfluoroalkyl substances (PFASs).

Date of Government Version: 03/01/2023	Source: Texas Commission on Environmental Quality
Date Data Arrived at EDR: 03/08/2023	Telephone: 512-239-2341
Date Made Active in Reports: 05/31/2023	Last EDR Contact: 05/24/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

AQUEOUS FOAM: AFFF Sites Listing

A list of Aqueous Film Forming Foam (AFFF) sites.

Date of Government Version: 03/06/2023	Source: Texas Commission on Environmental Quality
Date Data Arrived at EDR: 03/15/2023	Telephone: 512-239-1913
Date Made Active in Reports: 06/05/2023	Last EDR Contact: 05/24/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AIRS: Current Emission Inventory Data

The database lists by company, along with their actual emissions, the TNRCC air accounts that emit EPA criteria pollutants.

Date of Government Version: 03/09/2023
Date Data Arrived at EDR: 03/15/2023
Date Made Active in Reports: 05/31/2023
Number of Days to Update: 77

Source: Texas Commission on Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2023
Next Scheduled EDR Contact: 09/18/2023
Data Release Frequency: Semi-Annually

APAR: Affected Property Assessment Report Site Listing

Listing of Sites That Have Received an APAR (Affected Property Assessment Report)

Date of Government Version: 04/03/2023
Date Data Arrived at EDR: 04/06/2023
Date Made Active in Reports: 06/21/2023
Number of Days to Update: 76

Source: Texas Commission on Environmental Quality
Telephone: 512-239-5872
Last EDR Contact: 06/27/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Varies

ASBESTOS: Asbestos Notification Listing

A listing of asbestos notification site locations.

Date of Government Version: 02/23/2023
Date Data Arrived at EDR: 02/28/2023
Date Made Active in Reports: 05/18/2023
Number of Days to Update: 79

Source: Department of State Health Services
Telephone: 512-834-6787
Last EDR Contact: 05/10/2023
Next Scheduled EDR Contact: 08/28/2023
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites

A listing of facilities that use surface impoundments or landfills to dispose of coal ash.

Date of Government Version: 01/27/2023
Date Data Arrived at EDR: 02/01/2023
Date Made Active in Reports: 04/18/2023
Number of Days to Update: 76

Source: Texas Commission on Environmental Quality
Telephone: 512-239-6624
Last EDR Contact: 04/20/2023
Next Scheduled EDR Contact: 08/07/2023
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Registration Database Listing

A listing of drycleaning facilities.

Date of Government Version: 01/11/2023
Date Data Arrived at EDR: 02/22/2023
Date Made Active in Reports: 05/16/2023
Number of Days to Update: 83

Source: Texas Commission on Environmental Quality
Telephone: 512-239-2160
Last EDR Contact: 05/24/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Varies

ED AQUIF: Edwards Aquifer Permits

A listing of permits in the Edwards Aquifer Protection Program database. The information provided is for the counties located in the Austin Region (Hays, Travis, and Williamson counties).

Date of Government Version: 03/31/2023
Date Data Arrived at EDR: 03/31/2023
Date Made Active in Reports: 04/03/2023
Number of Days to Update: 3

Source: Texas Commission on Environmental Quality, Austin Region
Telephone: 512-339-2929
Last EDR Contact: 06/14/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Varies

ENFORCEMENT: Notice of Violations Listing

A listing of permit violations.

Date of Government Version: 03/17/2023
Date Data Arrived at EDR: 03/29/2023
Date Made Active in Reports: 06/23/2023
Number of Days to Update: 86

Source: Texas Commission on Environmental Quality
Telephone: 512-239-6012
Last EDR Contact: 06/27/2023
Next Scheduled EDR Contact: 10/09/2023
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 03/21/2023
Date Data Arrived at EDR: 03/23/2023
Date Made Active in Reports: 04/03/2023
Number of Days to Update: 11

Source: Texas Commission on Environmental Quality
Telephone: 512-239-6239
Last EDR Contact: 06/14/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

Financial Assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 03/02/2023
Date Data Arrived at EDR: 03/22/2023
Date Made Active in Reports: 06/07/2023
Number of Days to Update: 77

Source: Texas Commission on Environmental Quality
Telephone: 512-239-0986
Last EDR Contact: 06/20/2023
Next Scheduled EDR Contact: 10/02/2023
Data Release Frequency: Quarterly

GCC: Groundwater Contamination Cases

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 report is required to contain a description of each case of groundwater contamination documented during the previous calendar year. Also to be included, is a description of each case of contamination documented during previous periods for which voluntary clean up action was incomplete at the time the preceding report was issued. The report is also required to indicate the status of enforcement action for each listed case.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 08/29/2022
Date Made Active in Reports: 11/16/2022
Number of Days to Update: 79

Source: Texas Commission on Environmental Quality
Telephone: 512-239-5690
Last EDR Contact: 05/25/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Annually

IOP: Innocent Owner/Operator Program

Contains information on all sites that are in the IOP. An IOP is an innocent owner or operator whose 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.

Date of Government Version: 03/24/2023
Date Data Arrived at EDR: 03/29/2023
Date Made Active in Reports: 04/03/2023
Number of Days to Update: 5

Source: Texas Commission on Environmental Quality
Telephone: 512-239-5894
Last EDR Contact: 06/22/2023
Next Scheduled EDR Contact: 10/09/2023
Data Release Frequency: Quarterly

LEAD: Lead Inspection Listing

Lead inspection sites

Date of Government Version: 11/28/2022
Date Data Arrived at EDR: 11/30/2022
Date Made Active in Reports: 02/13/2023
Number of Days to Update: 75

Source: Department of State Health Services
Telephone: 512-834-6600
Last EDR Contact: 06/01/2023
Next Scheduled EDR Contact: 08/28/2023
Data Release Frequency: Varies

Ind. Haz Waste: Industrial & Hazardous Waste Database

Summary reports reported by waste handlers, generators and shippers in Texas.

Date of Government Version: 12/19/2022
Date Data Arrived at EDR: 01/11/2023
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 72

Source: Texas Commission on Environmental Quality
Telephone: 512-239-0985
Last EDR Contact: 04/12/2023
Next Scheduled EDR Contact: 07/24/2023
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MSD: Municipal Settings Designations Database

An MSD is an official state designation given to property within a municipality or its extraterritorial jurisdiction that certifies that designated groundwater at the property is not use as potable water, and is prohibited from future use as potatable water because that groundwater is contaminated in excess of the applicable potable-water protective concentration level.

Date of Government Version: 05/11/2023
Date Data Arrived at EDR: 05/11/2023
Date Made Active in Reports: 05/15/2023
Number of Days to Update: 4

Source: Texas Commission on Environmental Quality
Telephone: 512-239-4982
Last EDR Contact: 04/20/2023
Next Scheduled EDR Contact: 08/07/2023
Data Release Frequency: Varies

NPDES: NPDES Facility List

Permitted wastewater outfalls.

Date of Government Version: 01/27/2023
Date Data Arrived at EDR: 01/27/2023
Date Made Active in Reports: 01/30/2023
Number of Days to Update: 3

Source: Texas Commission on Environmental Quality
Telephone: 512-239-4591
Last EDR Contact: 05/10/2023
Next Scheduled EDR Contact: 08/21/2023
Data Release Frequency: Varies

RWS: Radioactive Waste Sites

Sites in the State of Texas that have been designated as Radioactive Waste sites.

Date of Government Version: 07/24/2006
Date Data Arrived at EDR: 12/14/2006
Date Made Active in Reports: 01/23/2007
Number of Days to Update: 40

Source: Texas Commission on Environmental Quality
Telephone: 512-239-0859
Last EDR Contact: 05/04/2023
Next Scheduled EDR Contact: 08/21/2023
Data Release Frequency: Semi-Annually

TIER 2: Tier 2 Chemical Inventory Reports

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 06/07/2013
Date Made Active in Reports: 07/22/2013
Number of Days to Update: 45

Source: Department of State Health Services
Telephone: 512-834-6603
Last EDR Contact: 05/10/2023
Next Scheduled EDR Contact: 08/28/2023
Data Release Frequency: Annually

UIC: Underground Injection Wells Database Listing

Class V injection wells regulated by the TCEQ. Class V wells are used to inject non-hazardous fluids underground. Most Class V wells are used to dispose of wastes into or above underground sources of drinking water and can pose a threat to ground water quality, if not managed properly.

Date of Government Version: 08/09/2022
Date Data Arrived at EDR: 08/10/2022
Date Made Active in Reports: 11/01/2022
Number of Days to Update: 83

Source: Texas Commission on Environmental Quality
Telephone: 512-239-6627
Last EDR Contact: 04/06/2023
Next Scheduled EDR Contact: 07/24/2023
Data Release Frequency: Varies

IHW CORR ACTION: IHW CORR ACTION

Industrial hazardous waste facilities with corrective actions.

Date of Government Version: 03/24/2023
Date Data Arrived at EDR: 03/29/2023
Date Made Active in Reports: 04/04/2023
Number of Days to Update: 6

Source: Texas Commission on Environmental Quality
Telephone: 512-239-5872
Last EDR Contact: 06/22/2023
Next Scheduled EDR Contact: 10/09/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PST STAGE 2: PST Stage 2

State II Vapor Recovery. Decommissioning of Stage II Rule - Gasoline dispensing facilities (GDFs) may begin the process of removing Stage II equipment on May 16, 2014 providing that all other requirements for decommissioning have been met, including appropriate notification.

Date of Government Version: 07/17/2019	Source: Texas Commission on Environmental Quality
Date Data Arrived at EDR: 07/18/2019	Telephone: 512-239-2160
Date Made Active in Reports: 09/24/2019	Last EDR Contact: 06/14/2023
Number of Days to Update: 68	Next Scheduled EDR Contact: 10/02/2023
	Data Release Frequency: Varies

COMP HIST: Compliance History Listing

A listing of compliance histories of regulated entities

Date of Government Version: 11/21/2022	Source: Txas Commission on Environmental Quality
Date Data Arrived at EDR: 11/22/2022	Telephone: 512-239-3282
Date Made Active in Reports: 02/14/2023	Last EDR Contact: 05/25/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 09/04/2023
	Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011	Source: EPA, Office of Water
Date Data Arrived at EDR: 08/05/2011	Telephone: 202-564-2496
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 06/27/2023
Number of Days to Update: 55	Next Scheduled EDR Contact: 10/16/2023
	Data Release Frequency: No Update Planned

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014	Source: EPA
Date Data Arrived at EDR: 02/05/2015	Telephone: 202-564-2497
Date Made Active in Reports: 03/06/2015	Last EDR Contact: 06/27/2023
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/16/2023
	Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 08/23/2022	Source: USGS
Date Data Arrived at EDR: 11/22/2022	Telephone: 703-648-6533
Date Made Active in Reports: 02/28/2023	Last EDR Contact: 05/25/2023
Number of Days to Update: 98	Next Scheduled EDR Contact: 09/04/2023
	Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 06/07/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/08/2023	Telephone: 202-566-0250
Date Made Active in Reports: 06/09/2023	Last EDR Contact: 06/08/2023
Number of Days to Update: 1	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Texas Commission of Environmental Quality in Texas formerly known as Texas Natural Resources Conservation Commission which changed in 2002.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/26/2013
Number of Days to Update: 178

Source: Texas Commission on Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Texas Commission of Environmental Quality in Texas formerly known as Texas Natural Resources Conservation Commission which changed in 2002.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Texas Commission on Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

TRAVIS COUNTY:

HIST UST AUSTIN: Historic Tank Records

A listing of historic records from the City of Austin.

Date of Government Version: 02/27/2023
Date Data Arrived at EDR: 03/01/2023
Date Made Active in Reports: 05/16/2023
Number of Days to Update: 76

Source: Department of Planning & Development Review
Telephone: 512-974-2715
Last EDR Contact: 05/30/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/16/2022
Date Data Arrived at EDR: 11/16/2022
Date Made Active in Reports: 02/06/2023
Number of Days to Update: 82

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/11/2023
Next Scheduled EDR Contact: 08/21/2023
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/27/2023
Next Scheduled EDR Contact: 10/16/2023
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 04/27/2023
Next Scheduled EDR Contact: 08/07/2023
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/06/2023
Next Scheduled EDR Contact: 07/24/2023
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/10/2022
Next Scheduled EDR Contact: 08/28/2023
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/09/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 04/06/2023
Next Scheduled EDR Contact: 07/24/2023
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2023
Next Scheduled EDR Contact: 09/18/2023
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facility List

Source: Department of Protective & Regulatory Services

Telephone: 512-438-3269

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Texas General Land Office

Telephone: 512-463-0745

STREET AND ADDRESS INFORMATION

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CPIND Deepwater Channel
Harris & Chambers County
Baytown, TX 77523

Inquiry Number: 7379536.6

July 05, 2023

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/05/23

Site Name:

CPIND Deepwater Channel
Harris & Chambers County
Baytown, TX 77523
EDR Inquiry # 7379536.6

Client Name:

Anchor QEA, LLC
PO Box 741
Rockport, TX 78381
Contact: Sara Flaherty



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Certified Sanborn Results:

Certification # 5796-4625-8E61
PO # NA
Project CPND Deepwater Channel

UNMAPPED PROPERTY

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Sanborn® Library search results

Certification #: 5796-4625-8E61

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- Library of Congress
- University Publications of America
- EDR Private Collection

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CPIND Deepwater Channel
Harris & Chambers County
Baytown, TX 77523

Inquiry Number: 7379536.8

July 03, 2023

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

07/03/23

Site Name:

CPIND Deepwater Channel
Harris & Chambers County
Baytown, TX 77523
EDR Inquiry # 7379536.8

Client Name:

Anchor QEA, LLC
PO Box 741
Rockport, TX 78381
Contact: Sara Flaherty



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Search Results:

Coordinates:

P.O.#	NA	Latitude:	29.681202 29° 40' 52" North
Project:	CPND Deepwater Channel	Longitude:	-94.973434 -94° 58' 24" West
		UTM Zone:	Zone 15 North
		UTM X Meters:	309042.07
		UTM Y Meters:	3285089.63
		Elevation:	5.91' above sea level

Maps Provided:

2019	1961	1919
2016	1956	1916
2013	1952	
1995	1949	
1993	1943	
1982	1932	
1969	1932, 1933	
1969, 1974	1928	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2019 Source Sheets



Bacliff
2019
7.5-minute, 24000



Smith Point
2019
7.5-minute, 24000



Morgans Point
2019
7.5-minute, 24000

2016 Source Sheets



Morgans Point
2016
7.5-minute, 24000



Bacliff
2016
7.5-minute, 24000



Smith Point
2016
7.5-minute, 24000

2013 Source Sheets



Bacliff
2013
7.5-minute, 24000



Smith Point
2013
7.5-minute, 24000



Morgans Point
2013
7.5-minute, 24000

1995 Source Sheets



Morgans Point
1995
7.5-minute, 24000
Aerial Photo Revised 1995

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1993 Source Sheets



Smith Point
1993
7.5-minute, 24000
Aerial Photo Revised 1987



Bacliff
1993
7.5-minute, 24000
Aerial Photo Revised 1987



Morgans Point
1993
7.5-minute, 24000
Aerial Photo Revised 1987

1982 Source Sheets



Morgans Point
1982
7.5-minute, 24000
Aerial Photo Revised 1975



Bacliff
1982
7.5-minute, 24000
Aerial Photo Revised 1975

1969 Source Sheets



Morgan Point
1969
7.5-minute, 24000
Aerial Photo Revised 1969



Morgans Point
1969
7.5-minute, 24000
Aerial Photo Revised 1969

1969, 1974 Source Sheets



Bacliff
1969
7.5-minute, 24000
Aerial Photo Revised 1969



Smith Point
1974
7.5-minute, 24000
Aerial Photo Revised 1974

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1961 Source Sheets



Smith Point
1961
7.5-minute, 24000
Aerial Photo Revised 1960

1956 Source Sheets



Bacliff
1956
7.5-minute, 24000
Aerial Photo Revised 1954



Morgan Point
1956
7.5-minute, 24000
Aerial Photo Revised 1955

1952 Source Sheets



Clifton By The Sea
1952
7.5-minute, 24000
Aerial Photo Revised 1942

1949 Source Sheets



MORGANS POINT
1949
7.5-minute, 25000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1943 Source Sheets



Smith Point
1943
7.5-minute, 24000
Aerial Photo Revised 1942

1932 Source Sheets



Clifton By The Sea
1932
7.5-minute, 31680

1932, 1933 Source Sheets



Smith Point
1933
7.5-minute, 31680

1928 Source Sheets



ANAHUAC
1928
30-minute, 125000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1919 Source Sheets

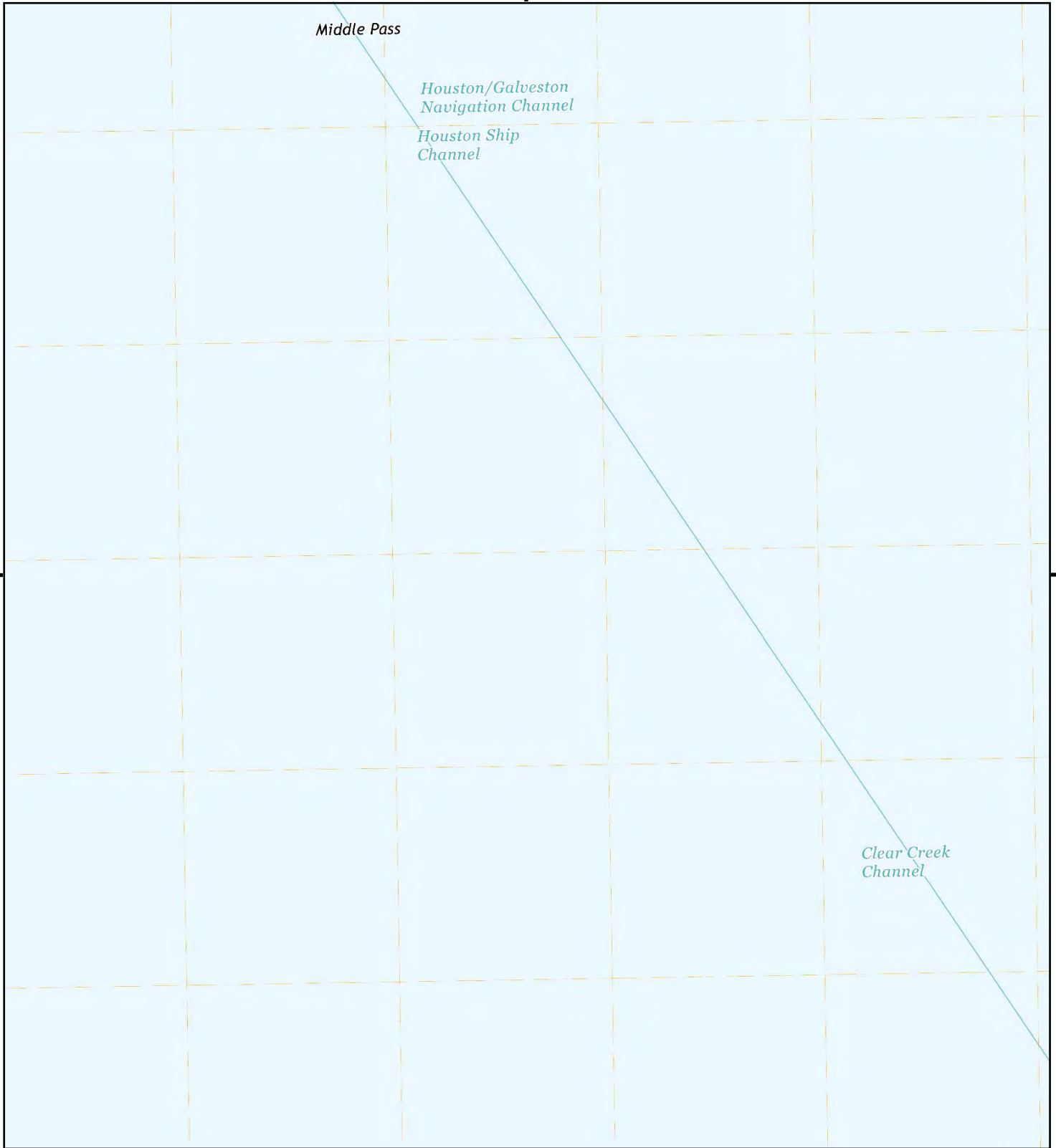


Morgan Point
1919
7.5-minute, 31680

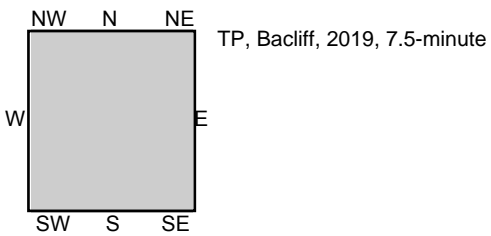
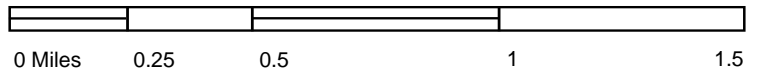
1916 Source Sheets



Morgan Point
1916
7.5-minute, 24000

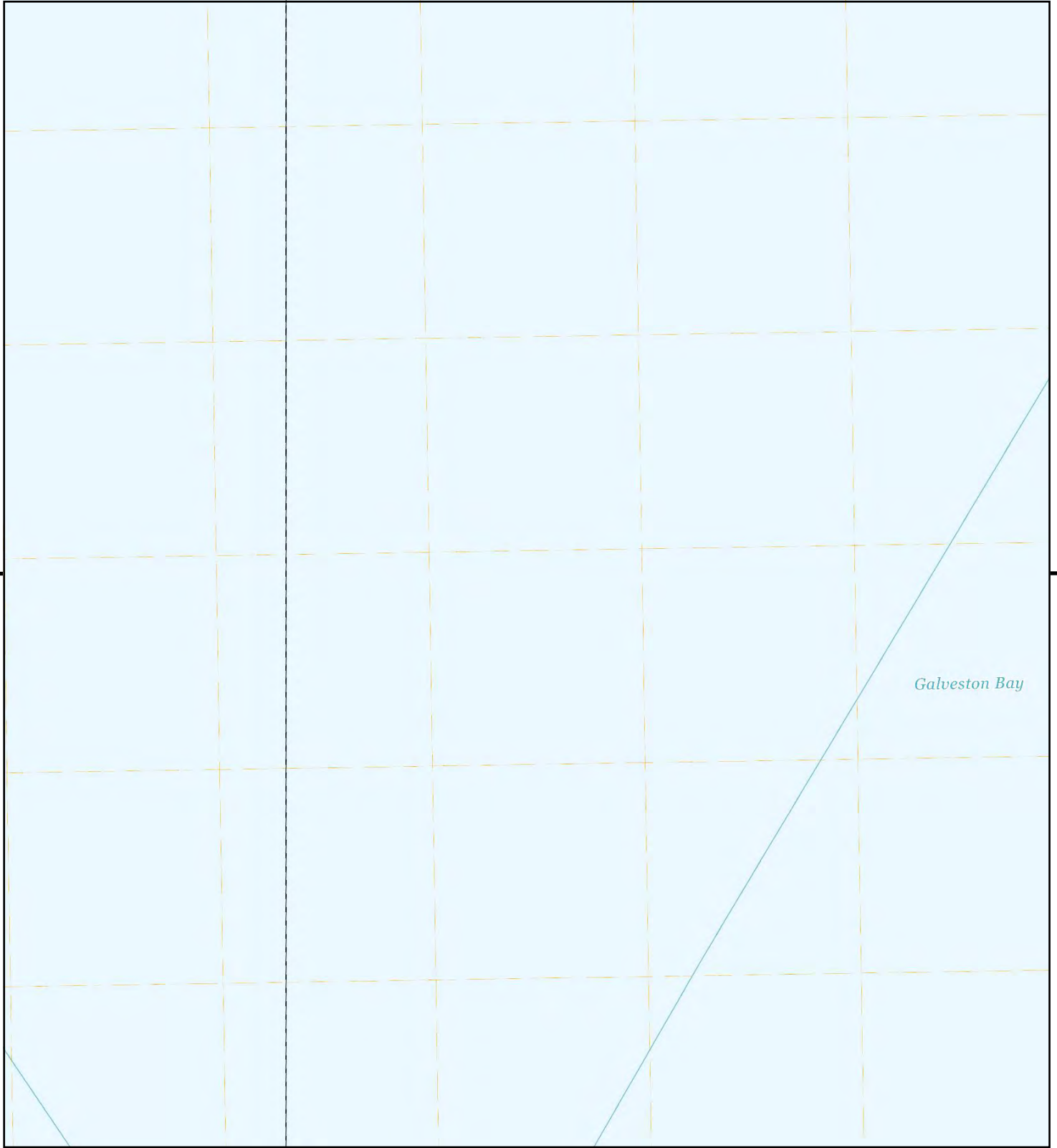


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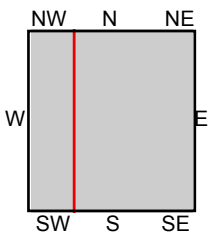
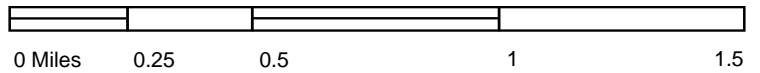


SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
Baytown, TX 77523
CLIENT: Anchor QEA, LLC





This report includes information from the following map sheet(s).



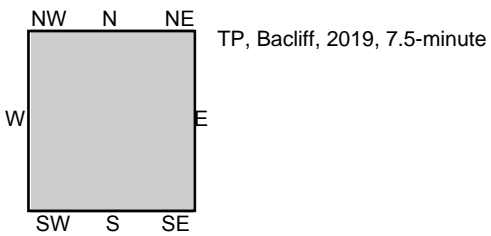
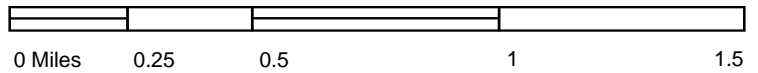
TP, Smith Point, 2019, 7.5-minute
W, Bacliff, 2019, 7.5-minute

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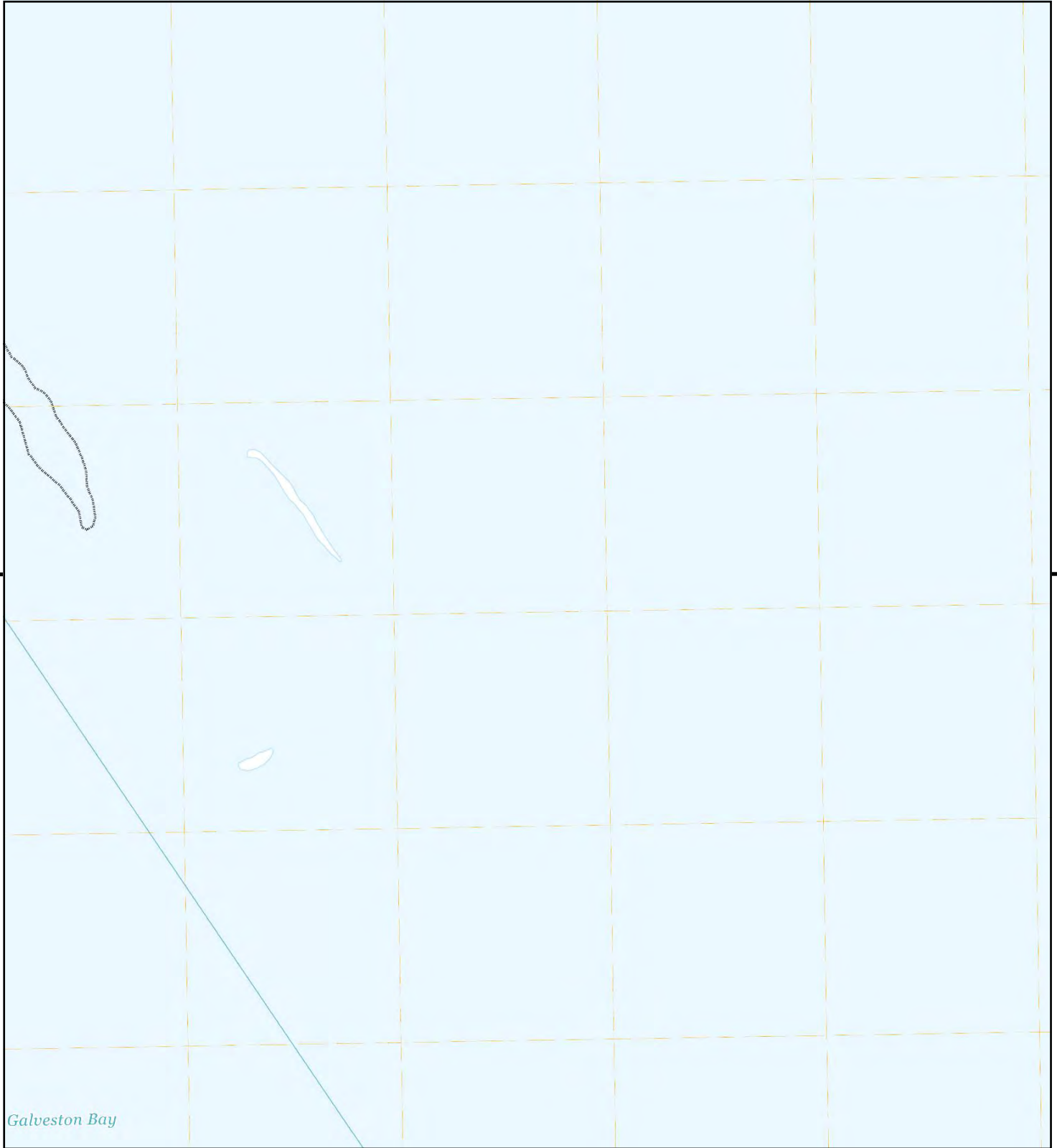


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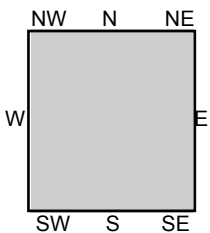
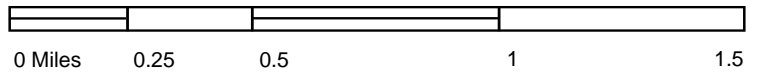


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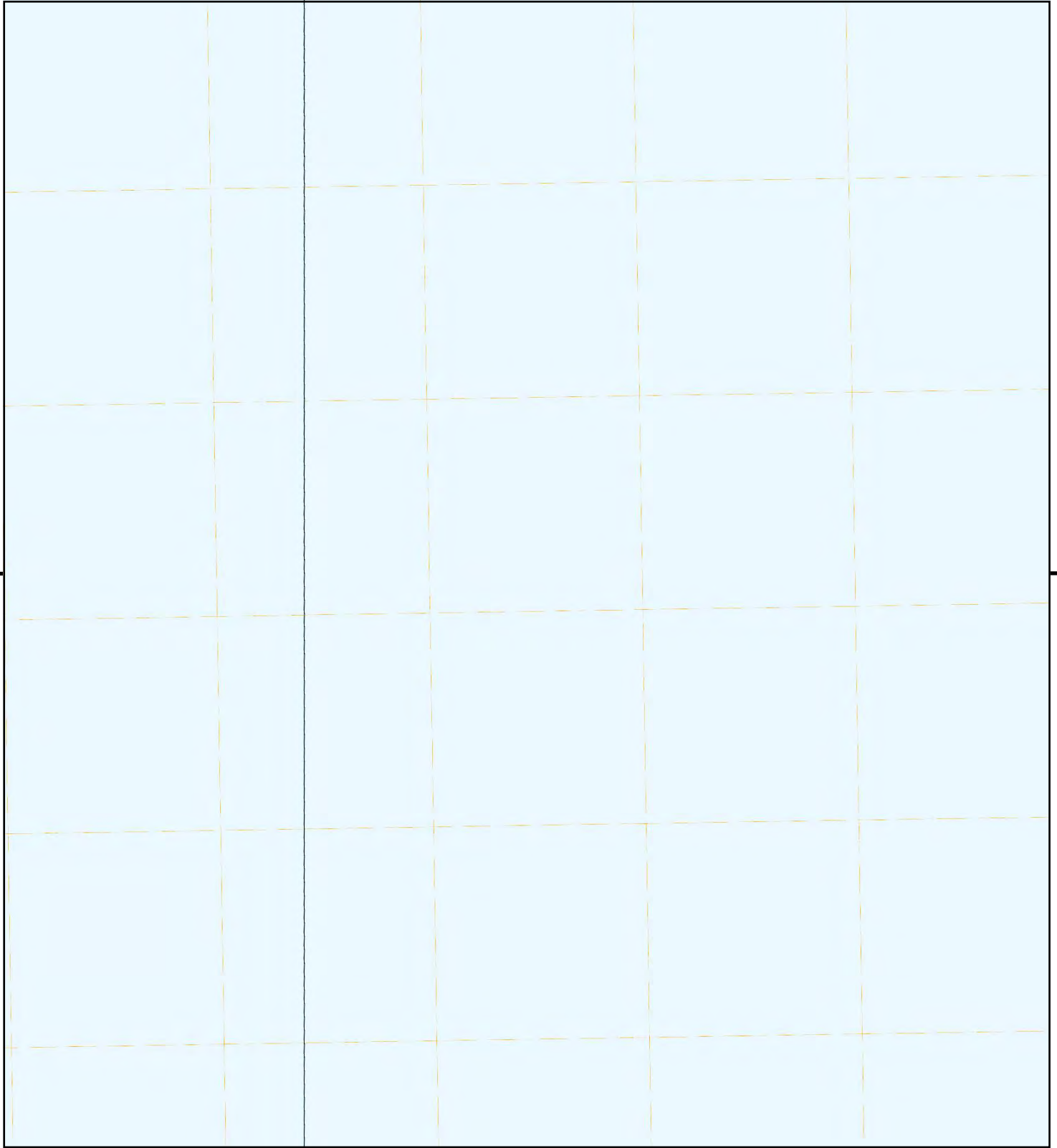
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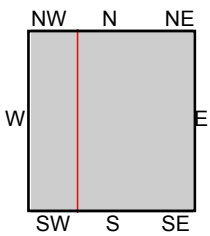
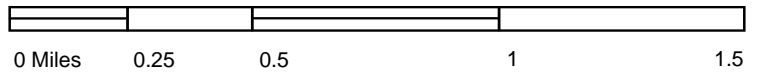
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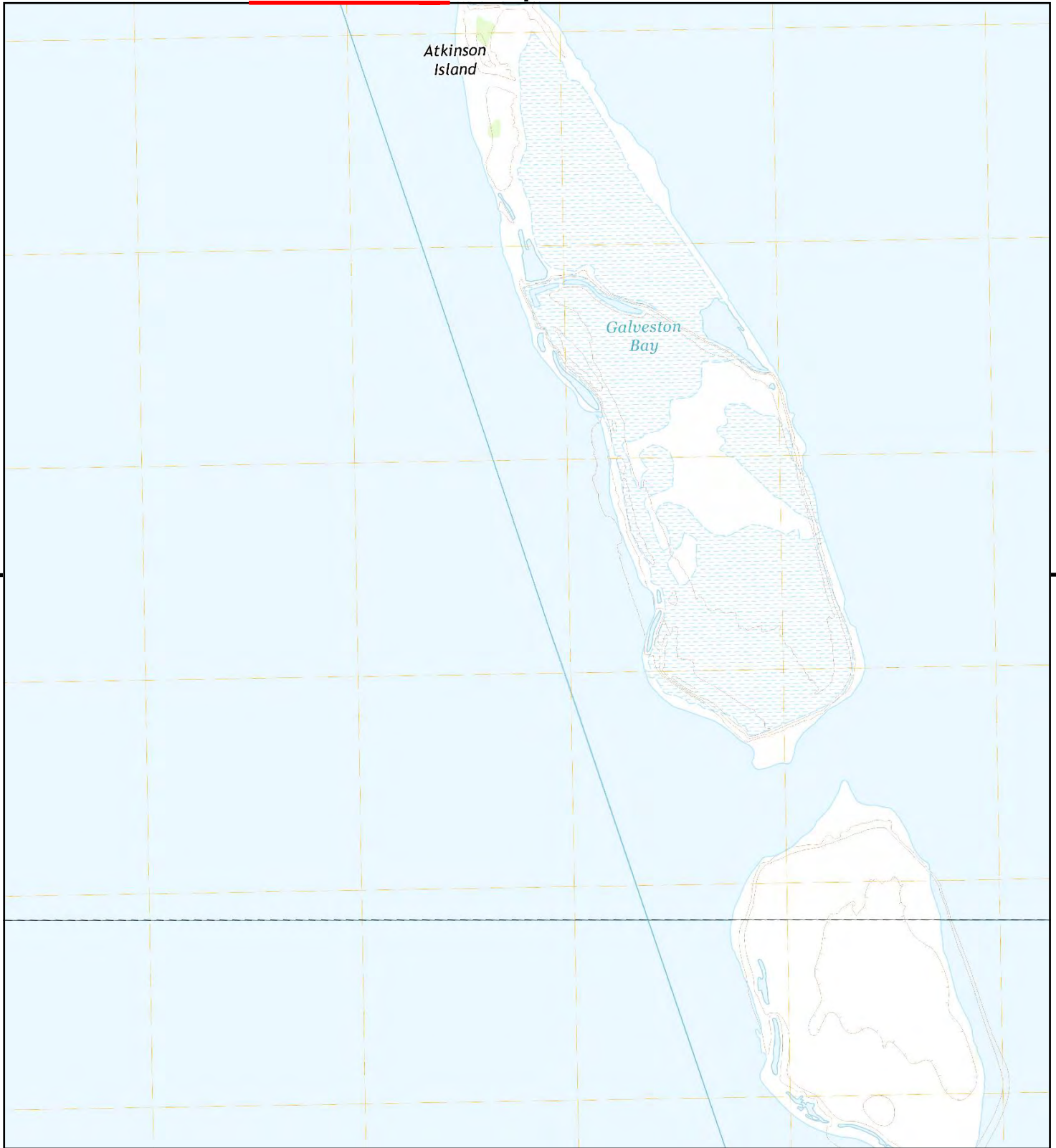
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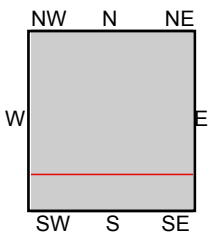
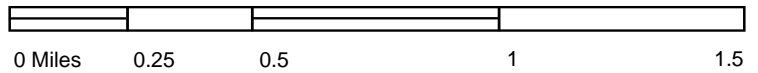
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SW, Bacliff, 2019, 7.5-minute

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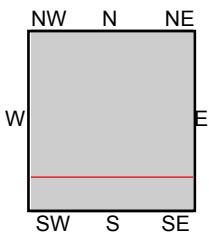
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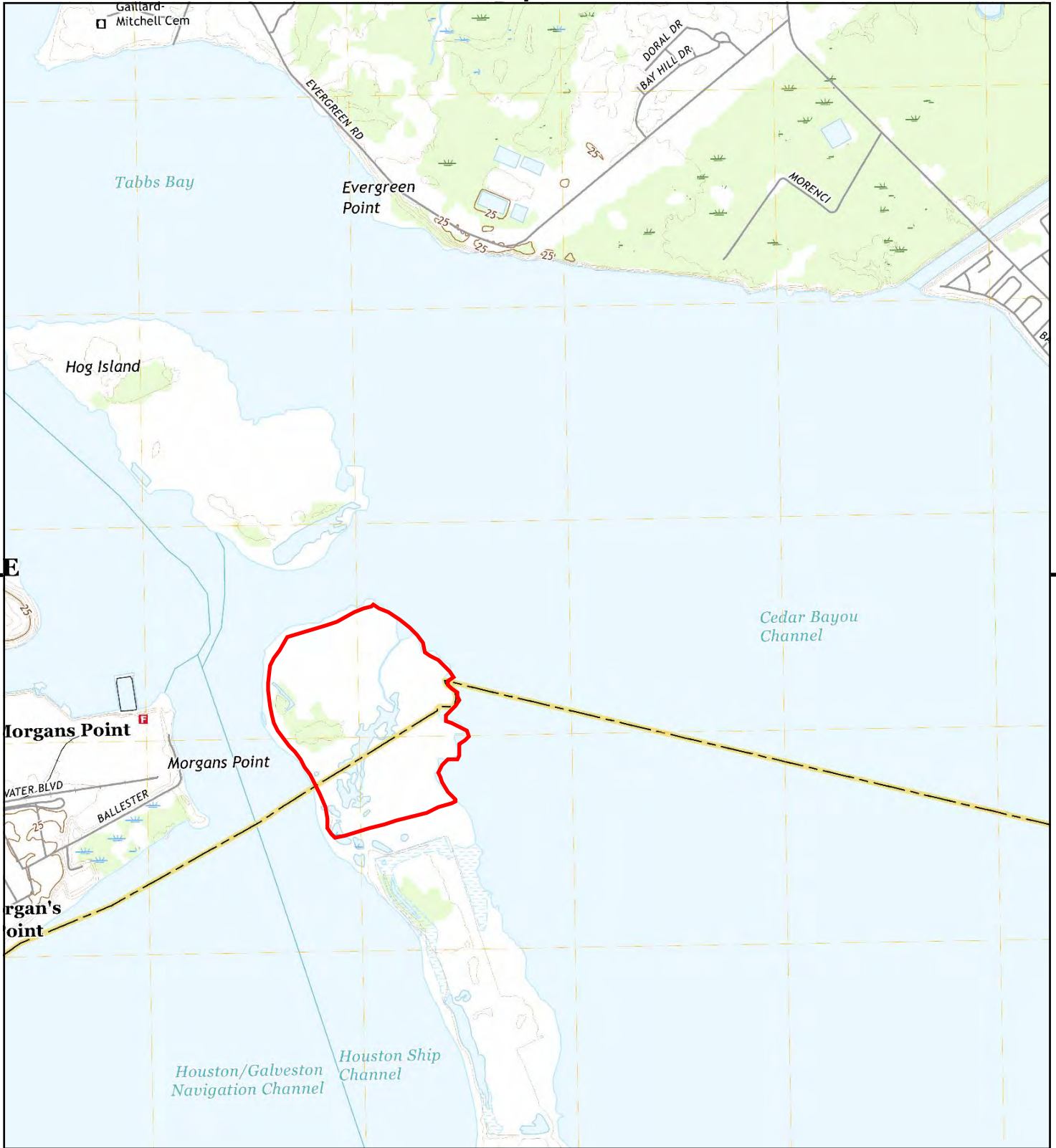
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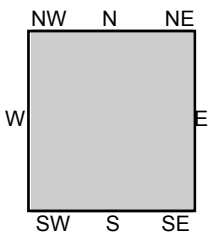
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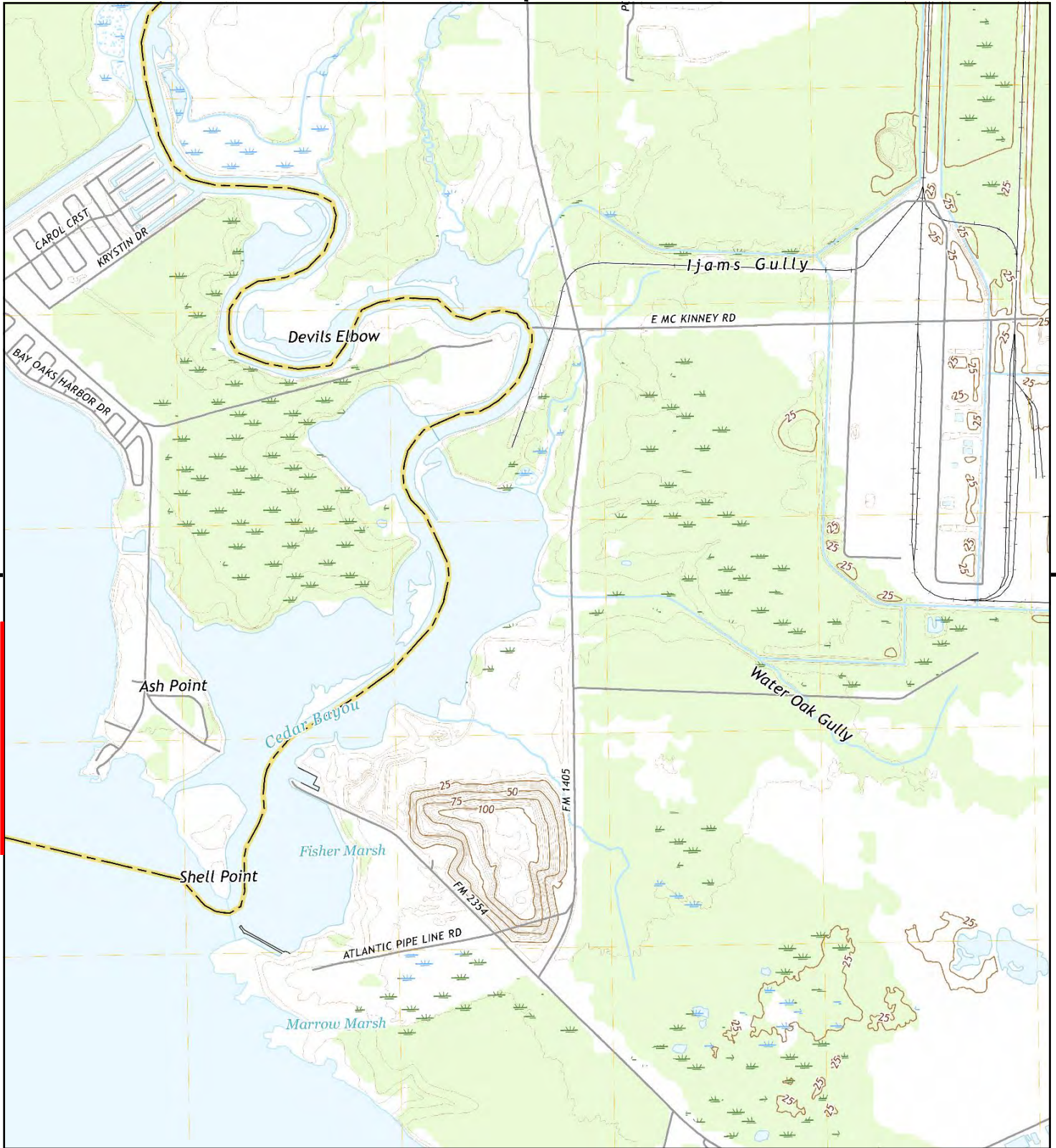
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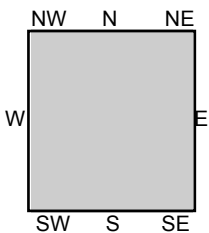
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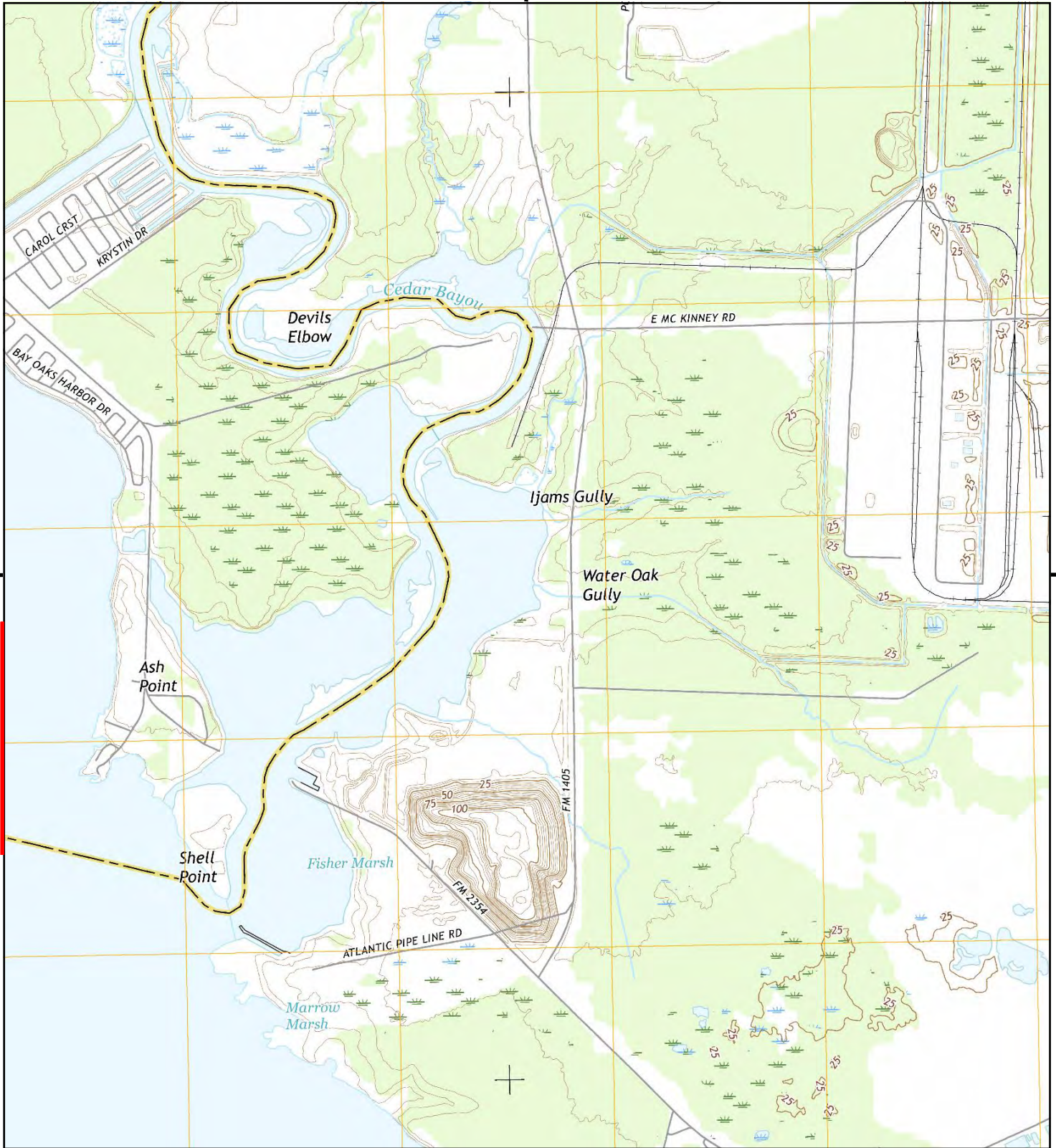
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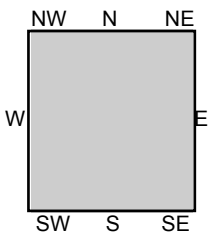
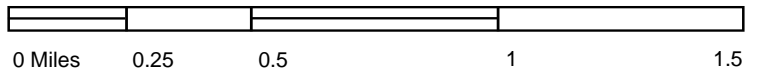
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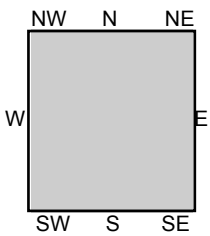
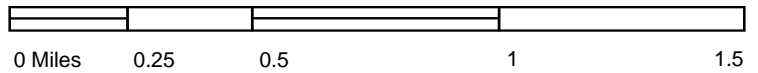
TP, Morgans Point, 2016, 7.5-minute

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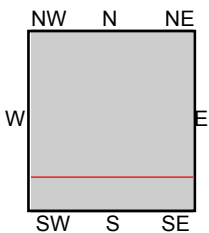
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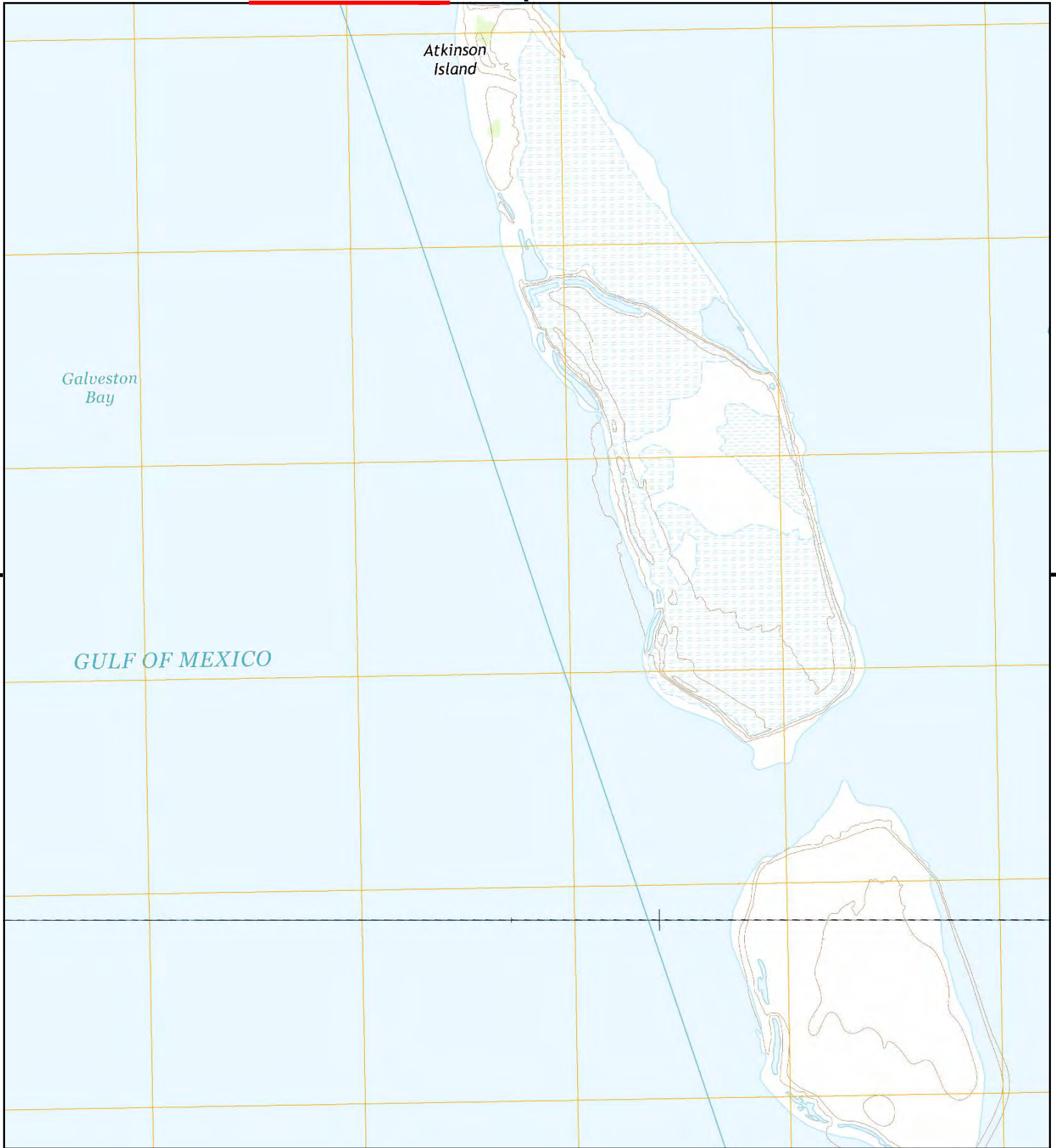
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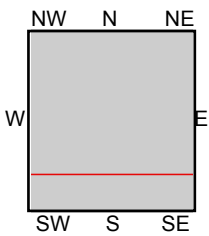
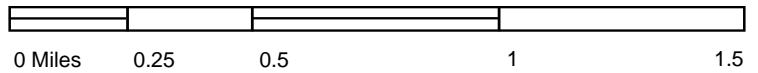
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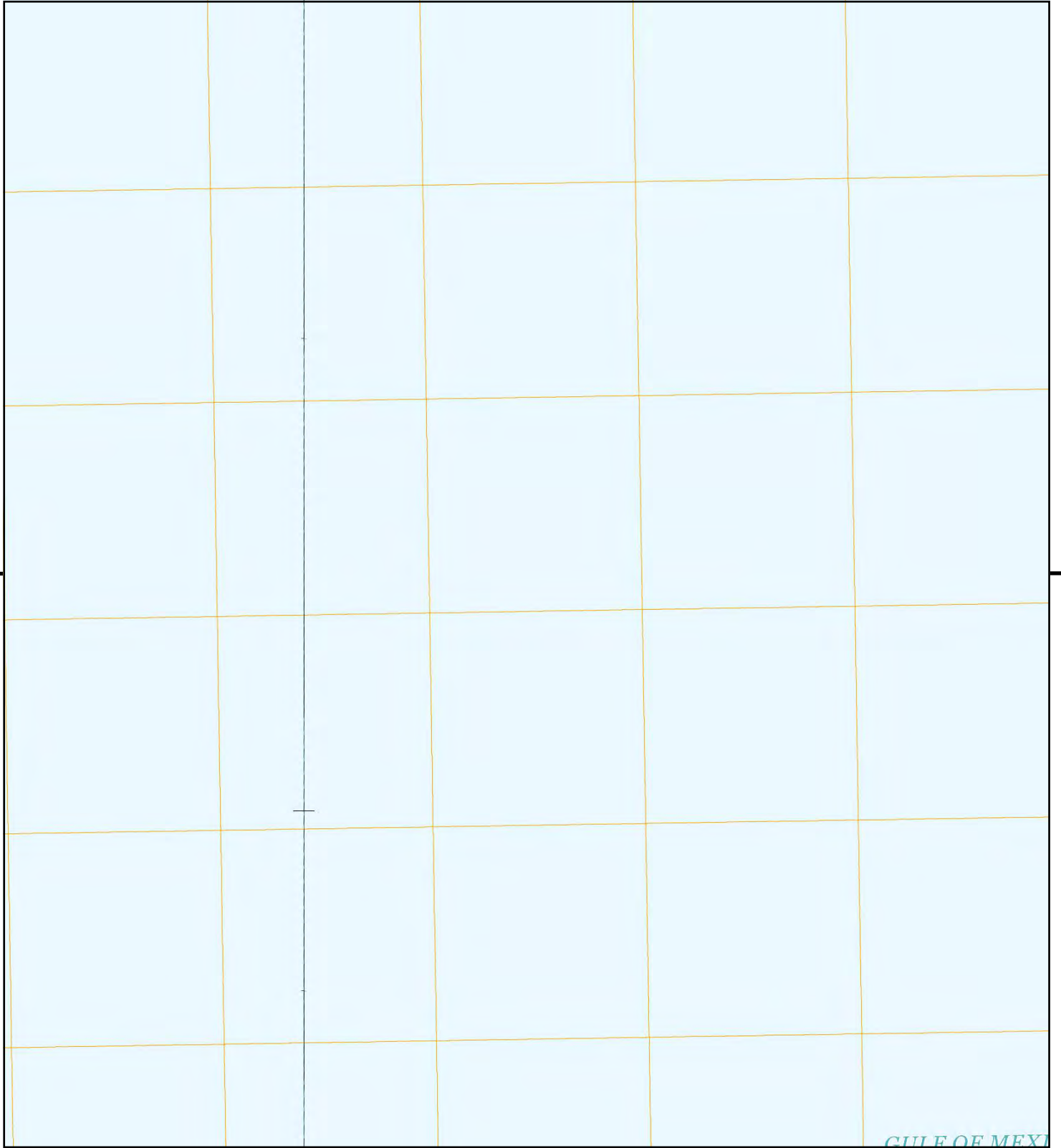
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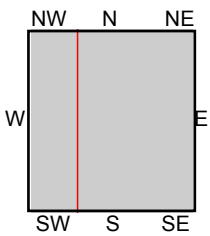
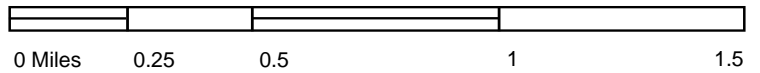
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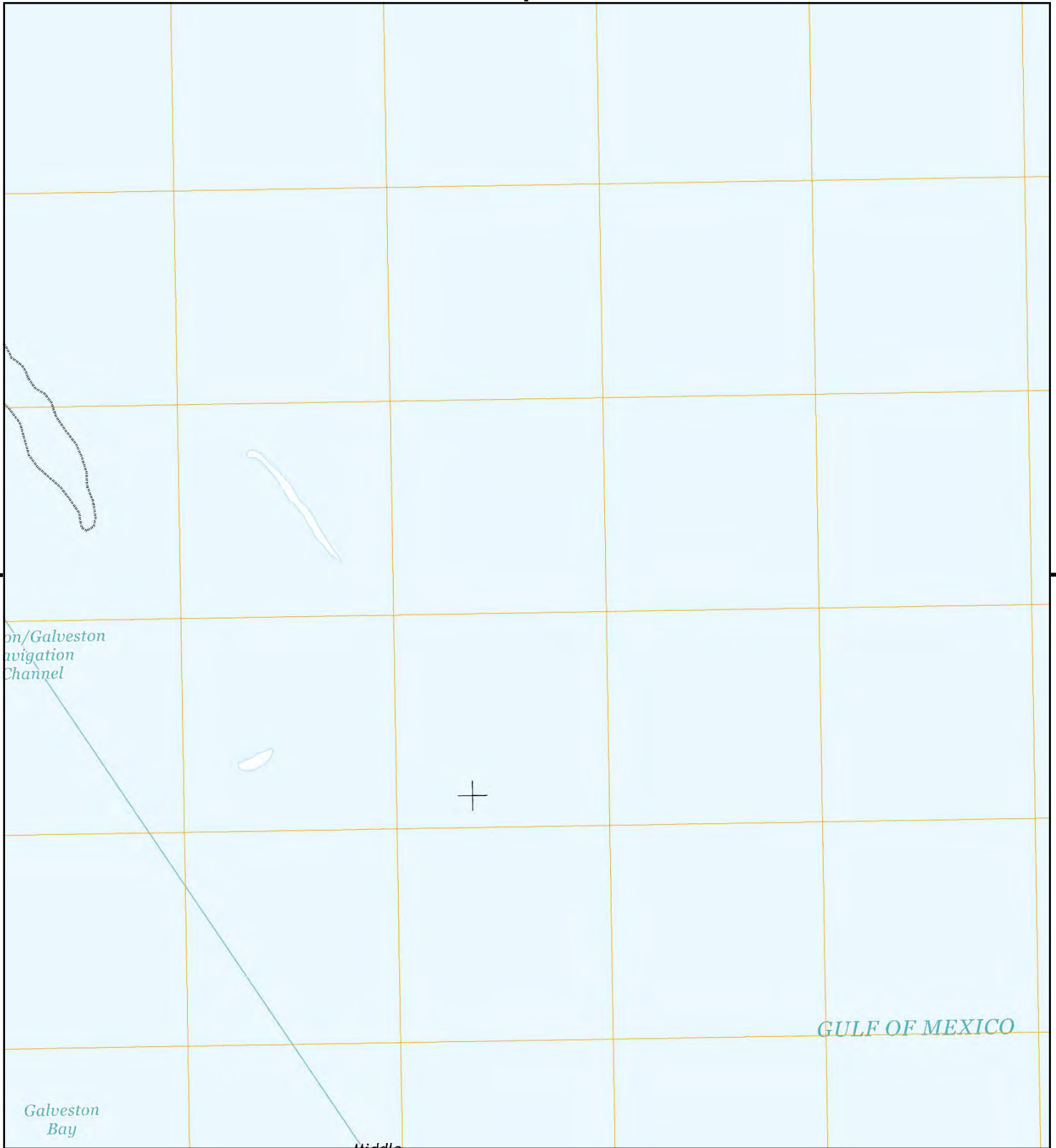
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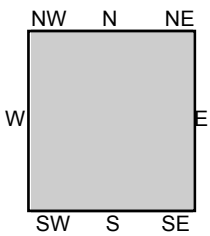
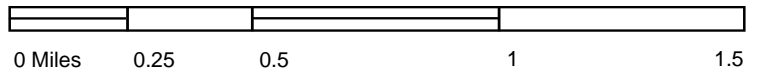
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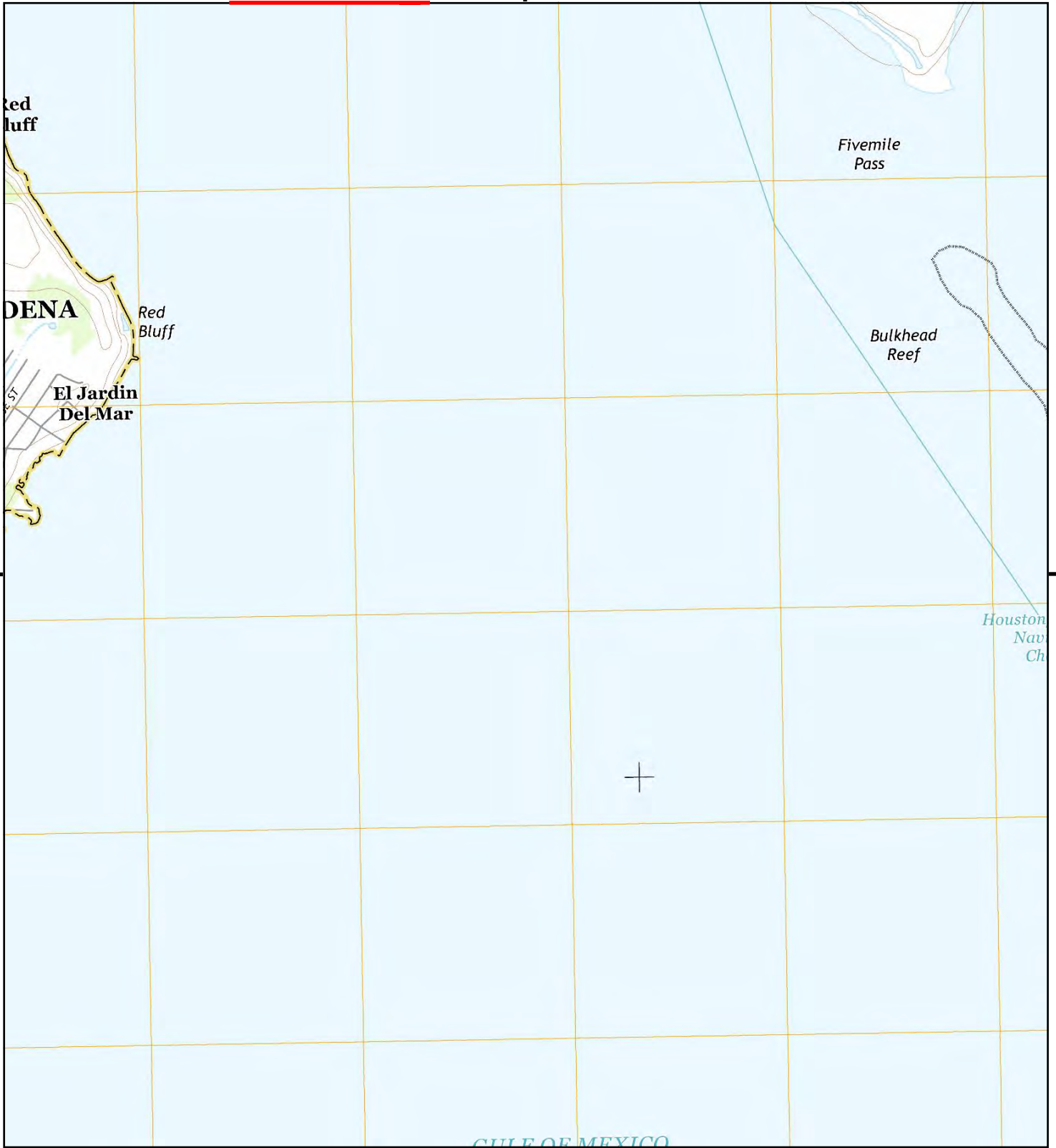
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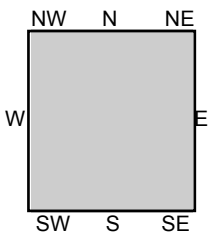
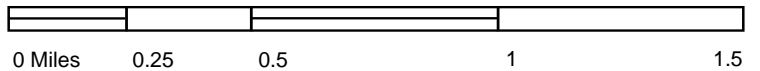
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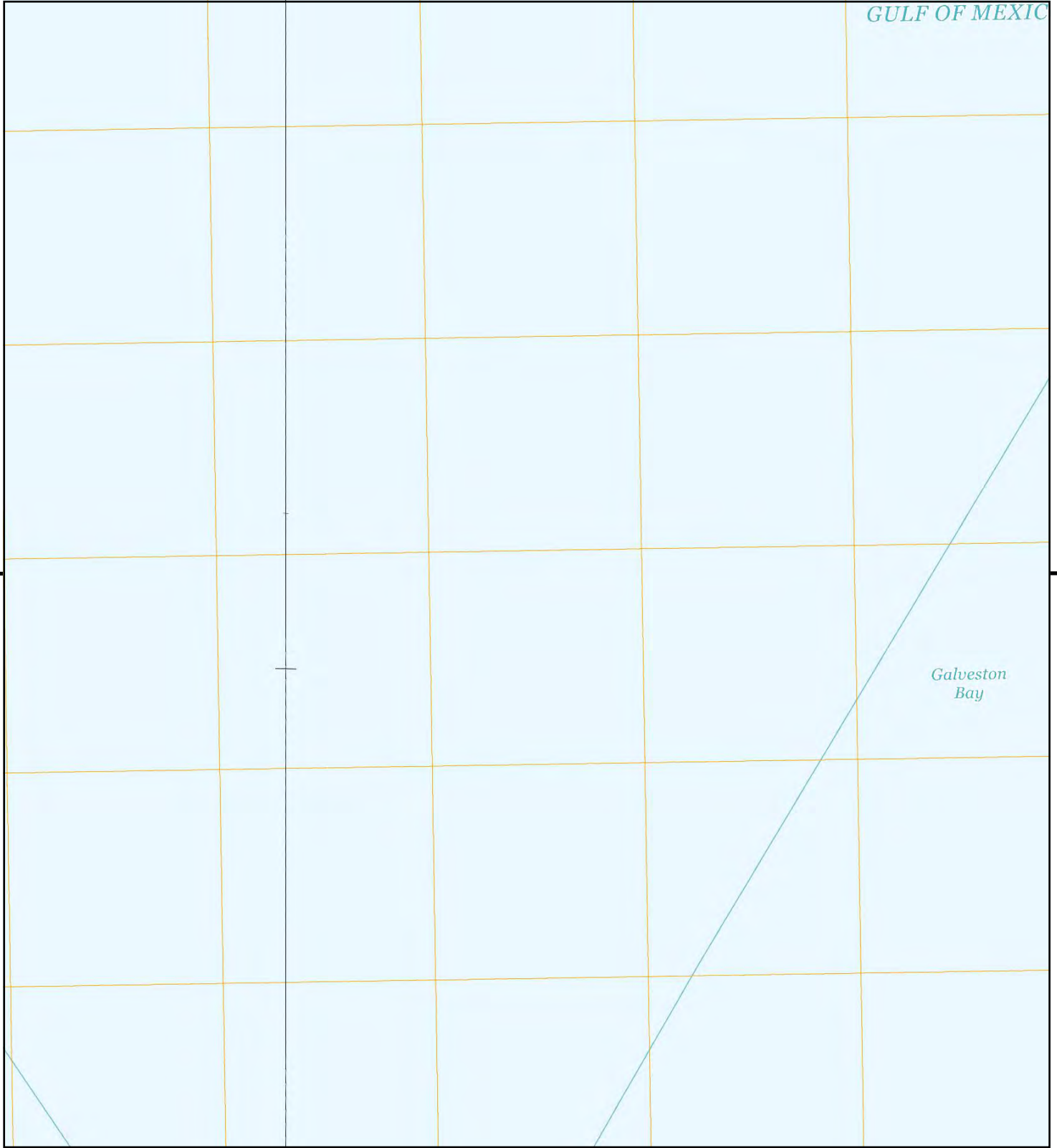
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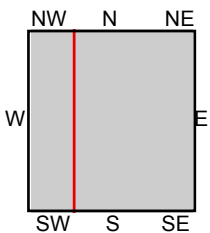
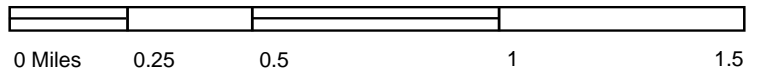
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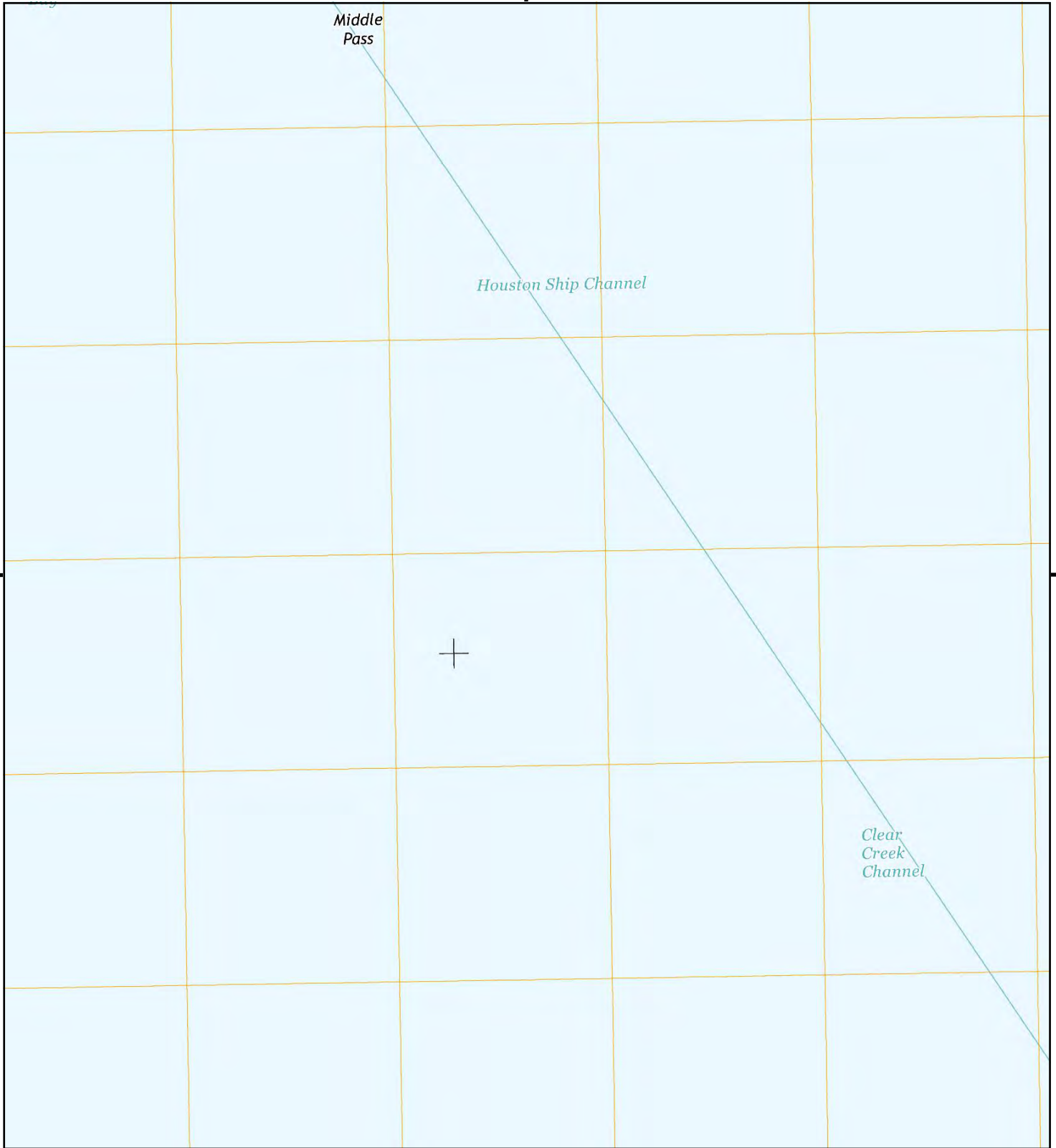
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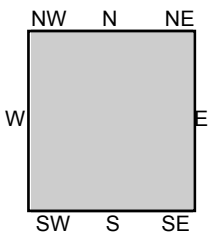
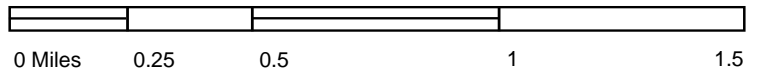
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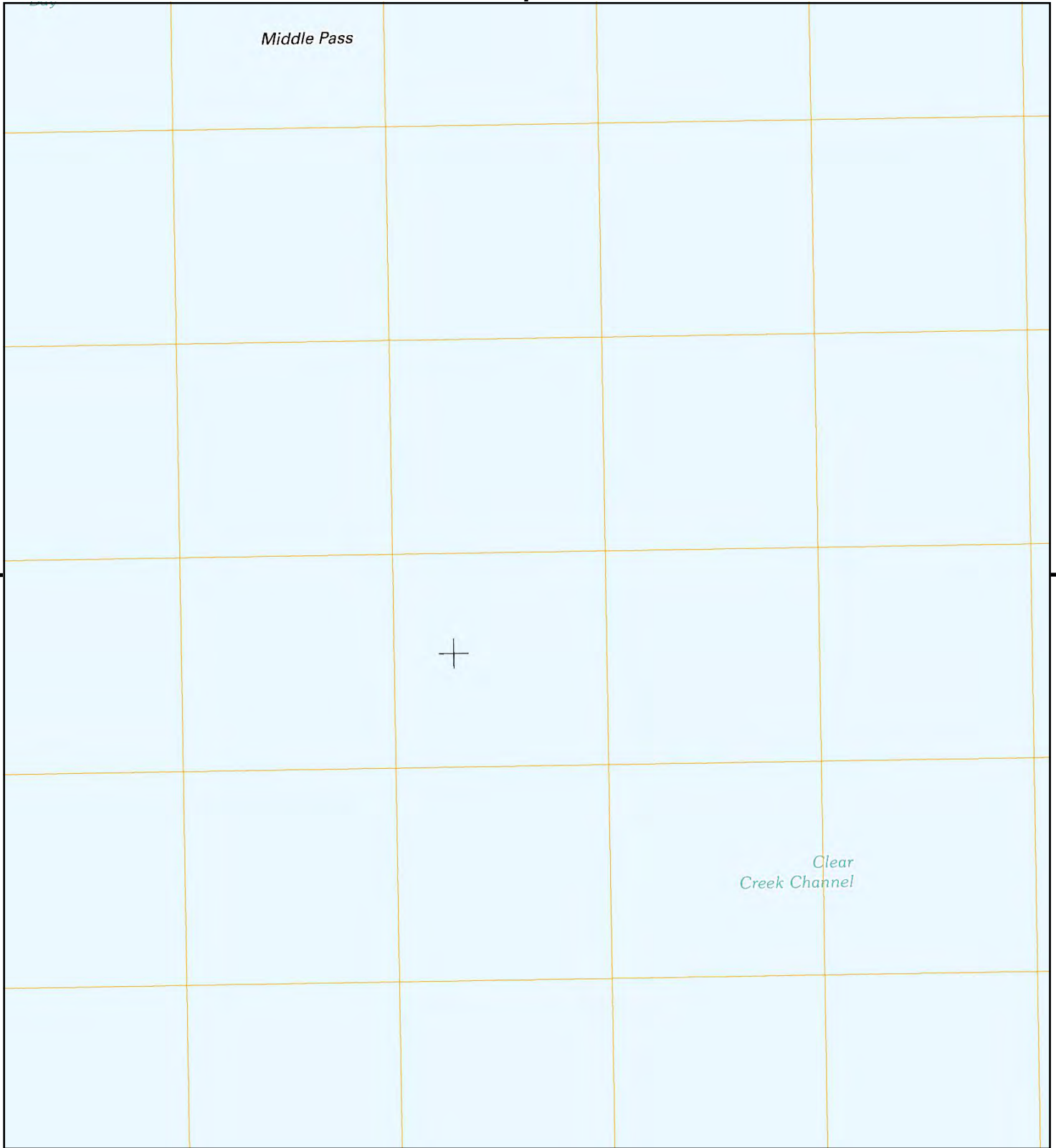
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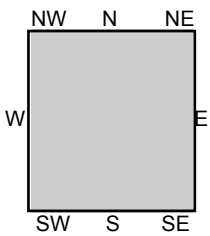
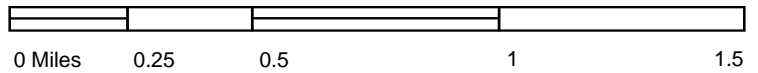
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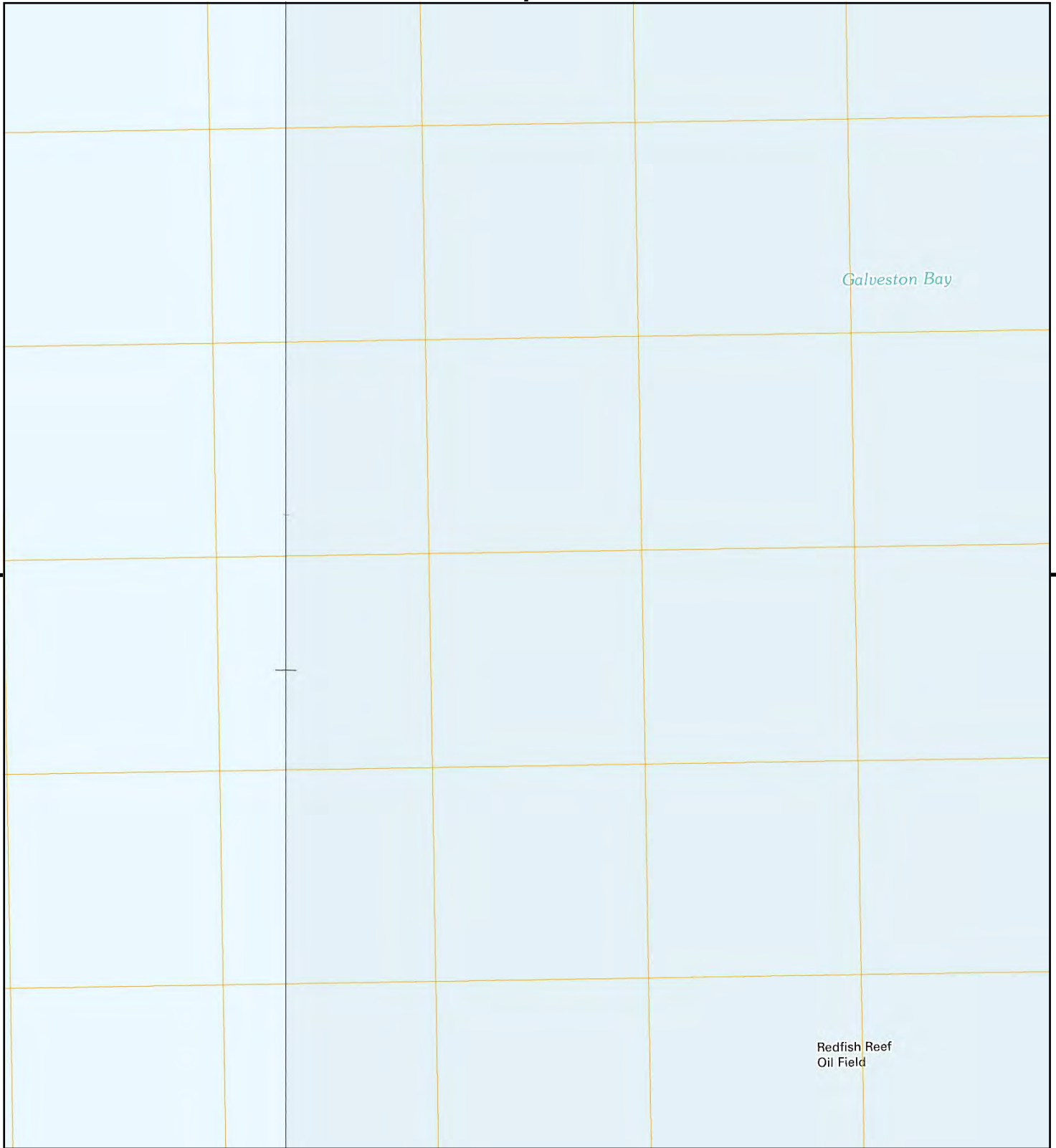
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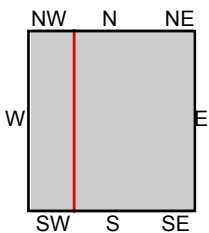
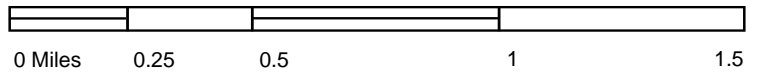
TP, Bacliff, 2013, 7.5-minute

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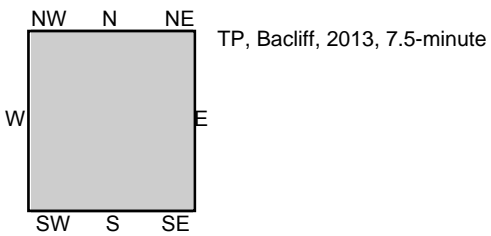
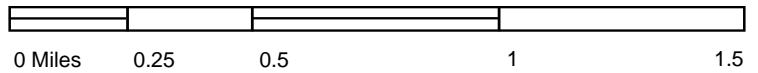
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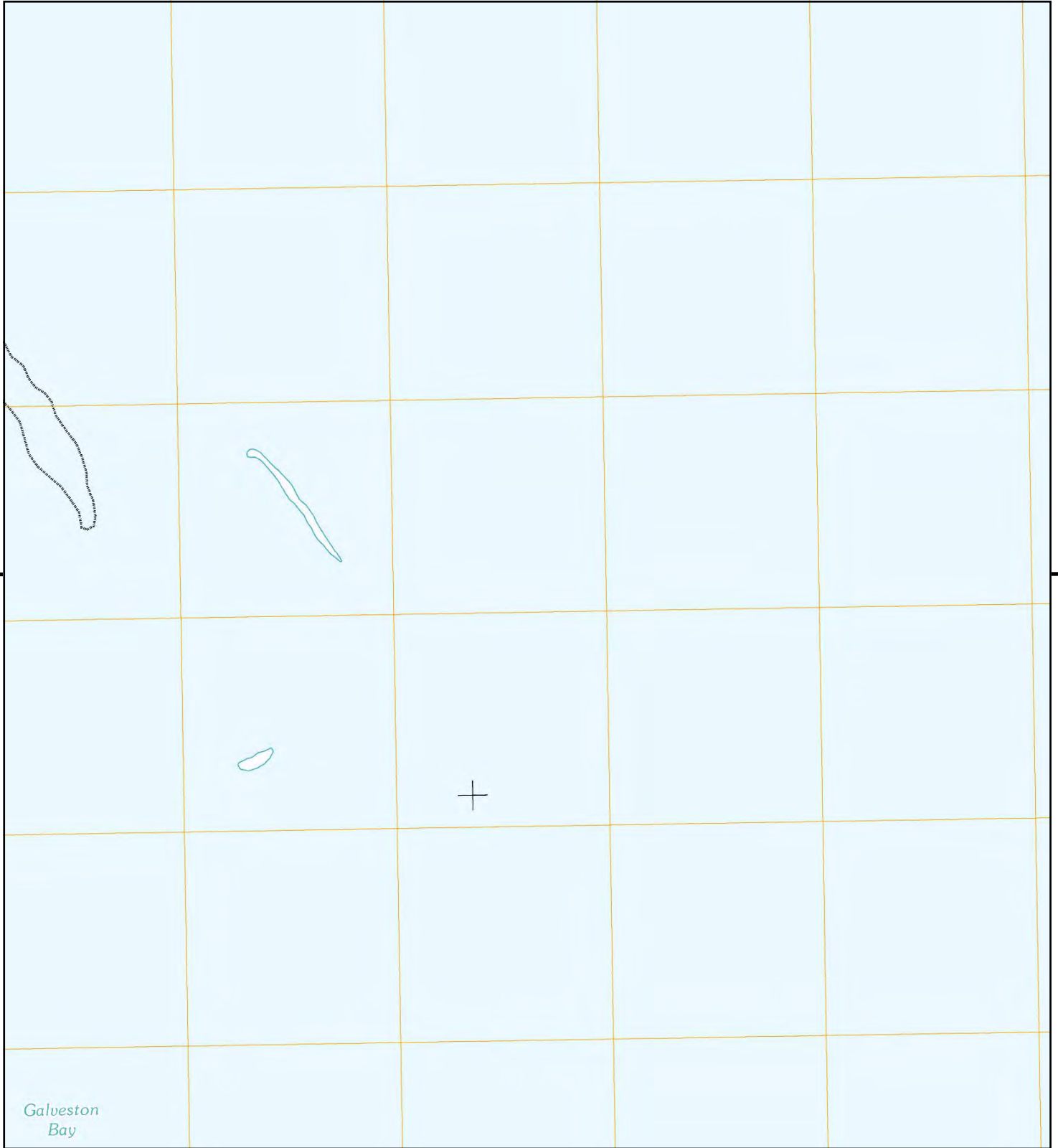


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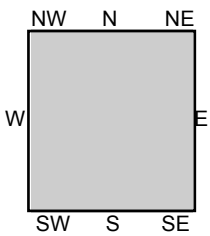
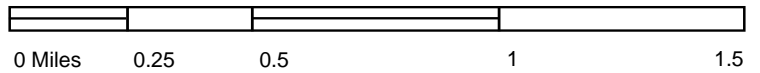


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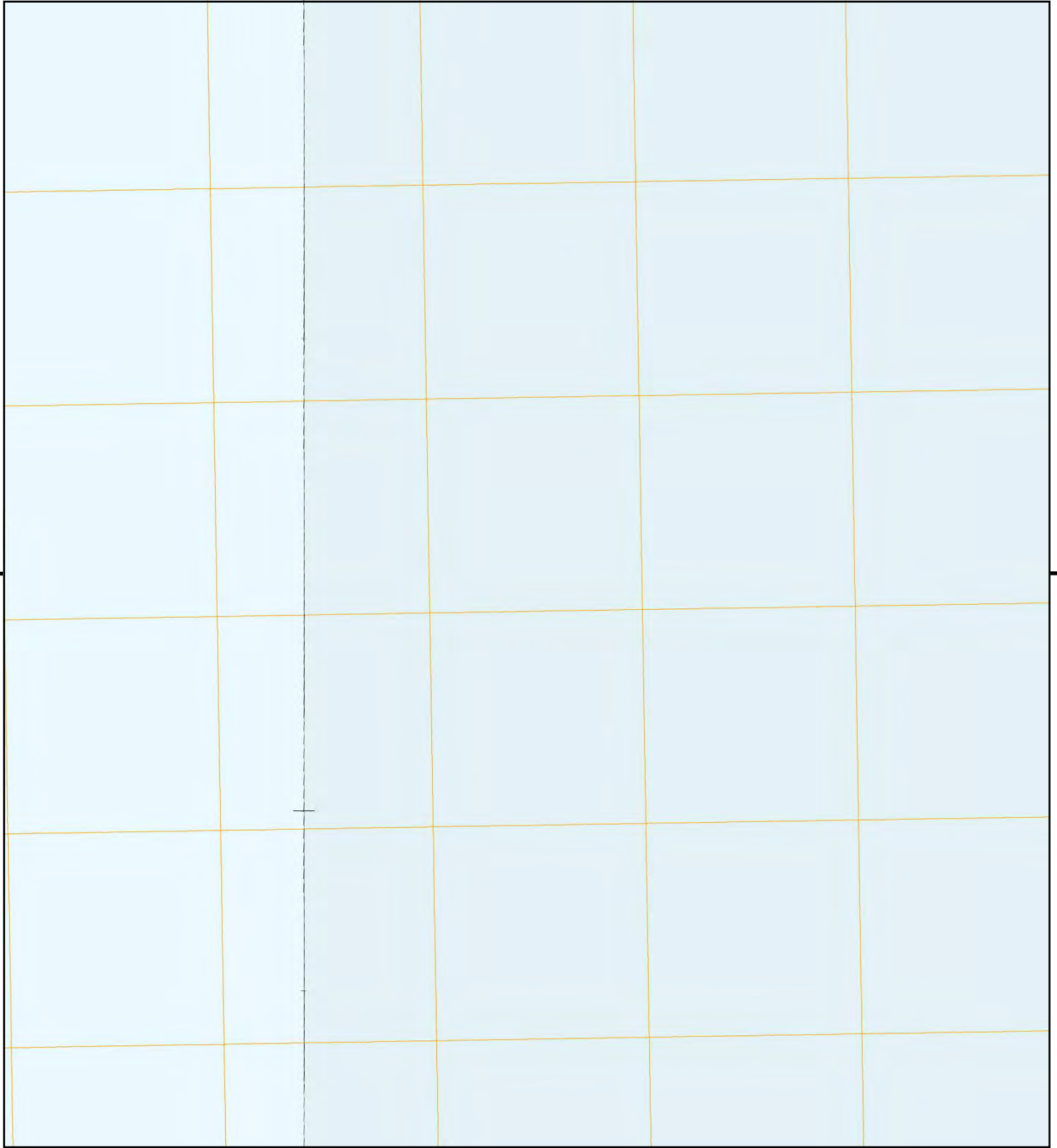
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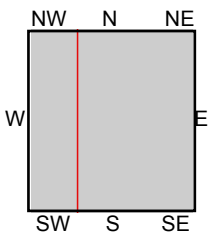
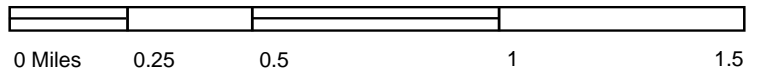
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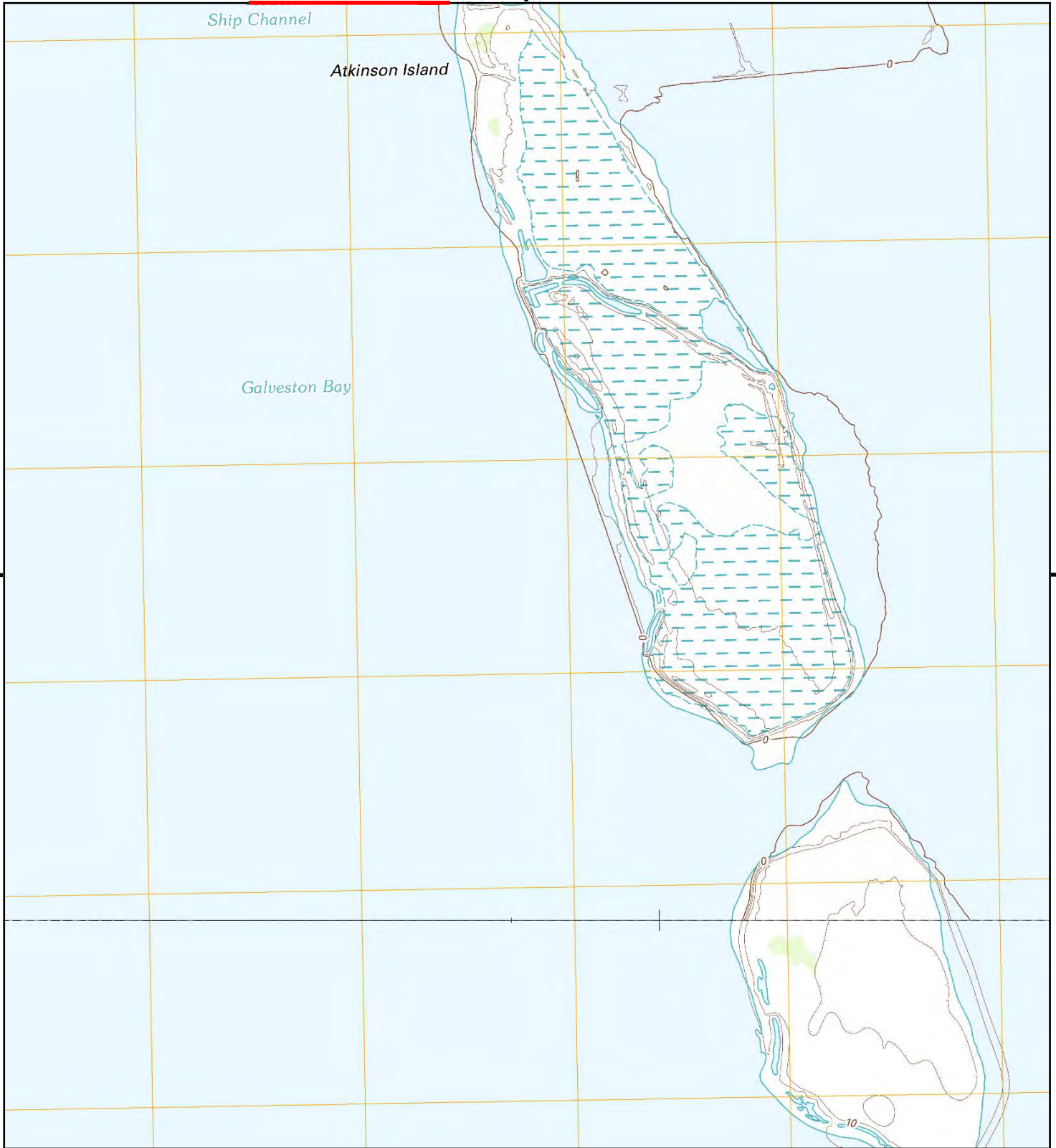
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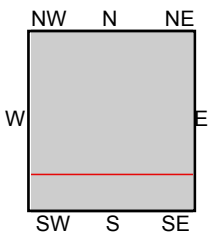
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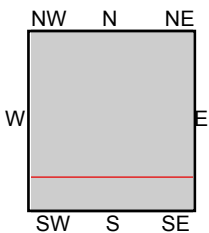
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S, Bacliff, 2013, 7.5-minute

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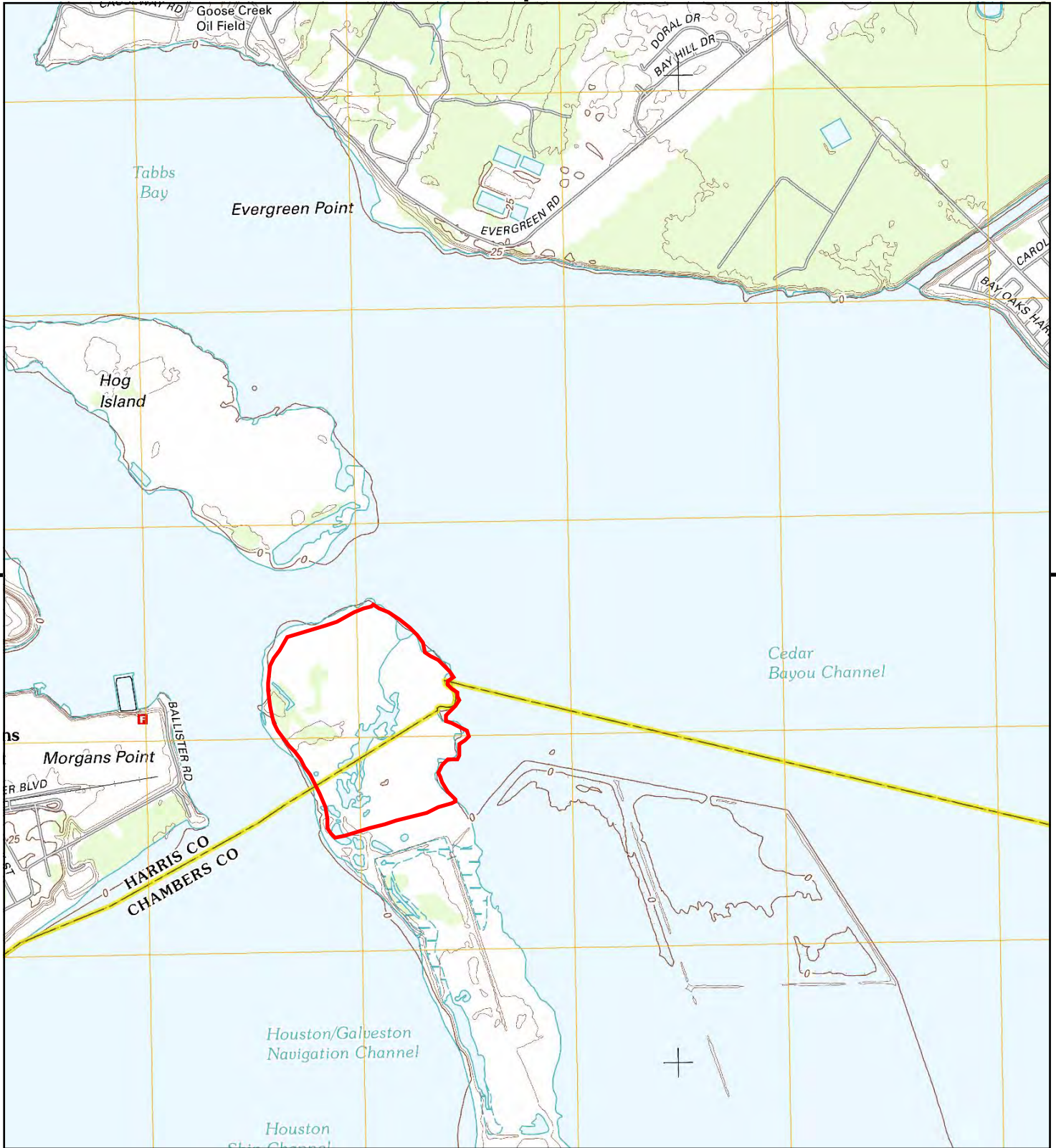
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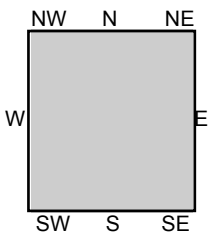
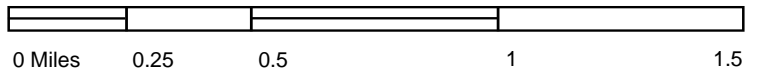
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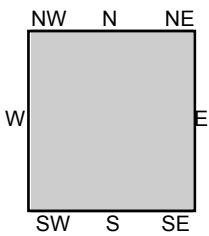
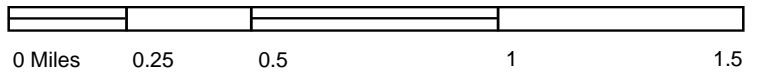
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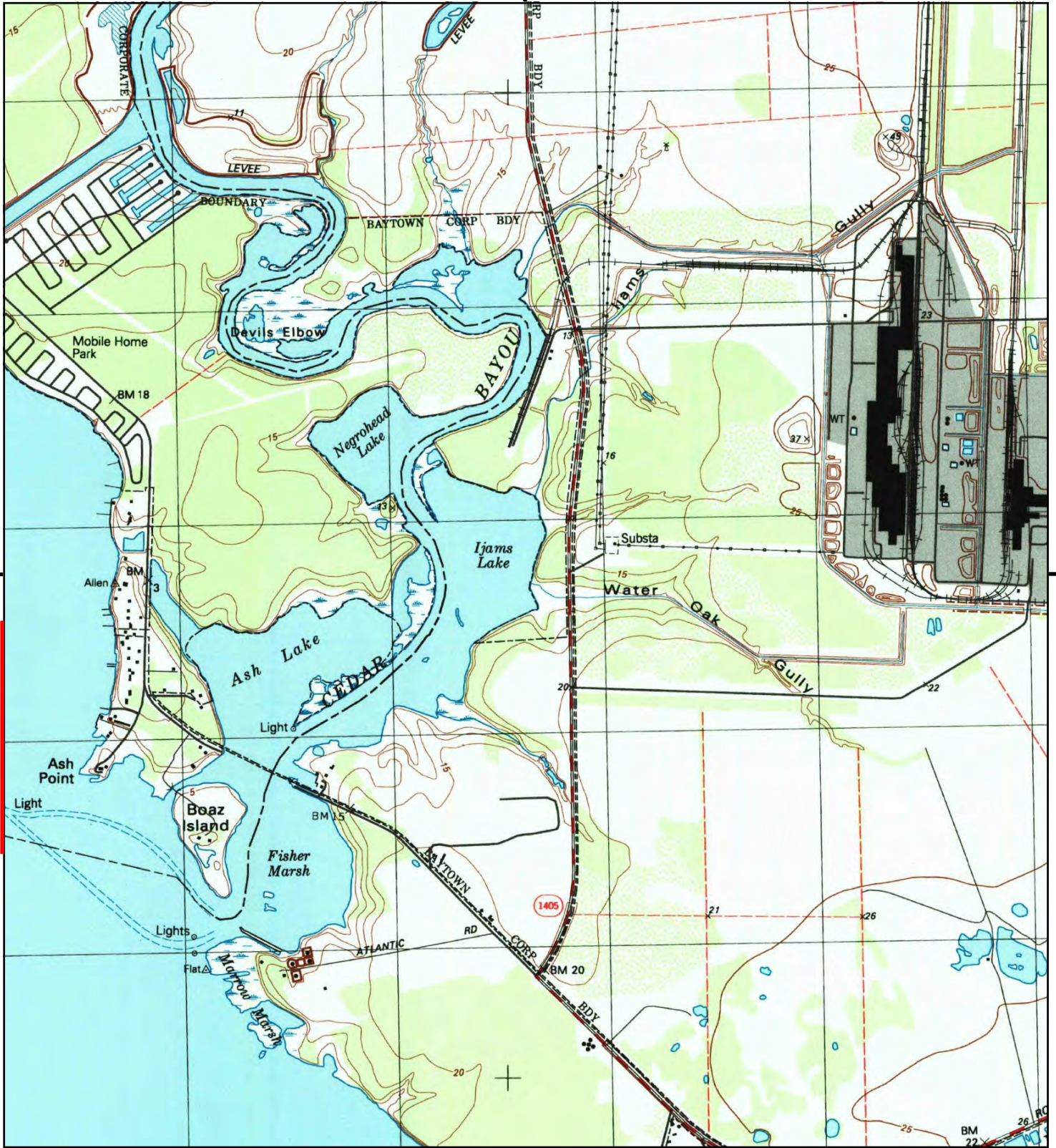
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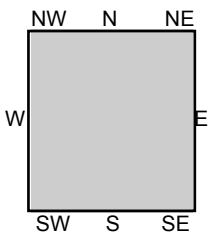
TP, Morgans Point, 2013, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
 Baytown, TX 77523
CLIENT: Anchor QEA, LLC





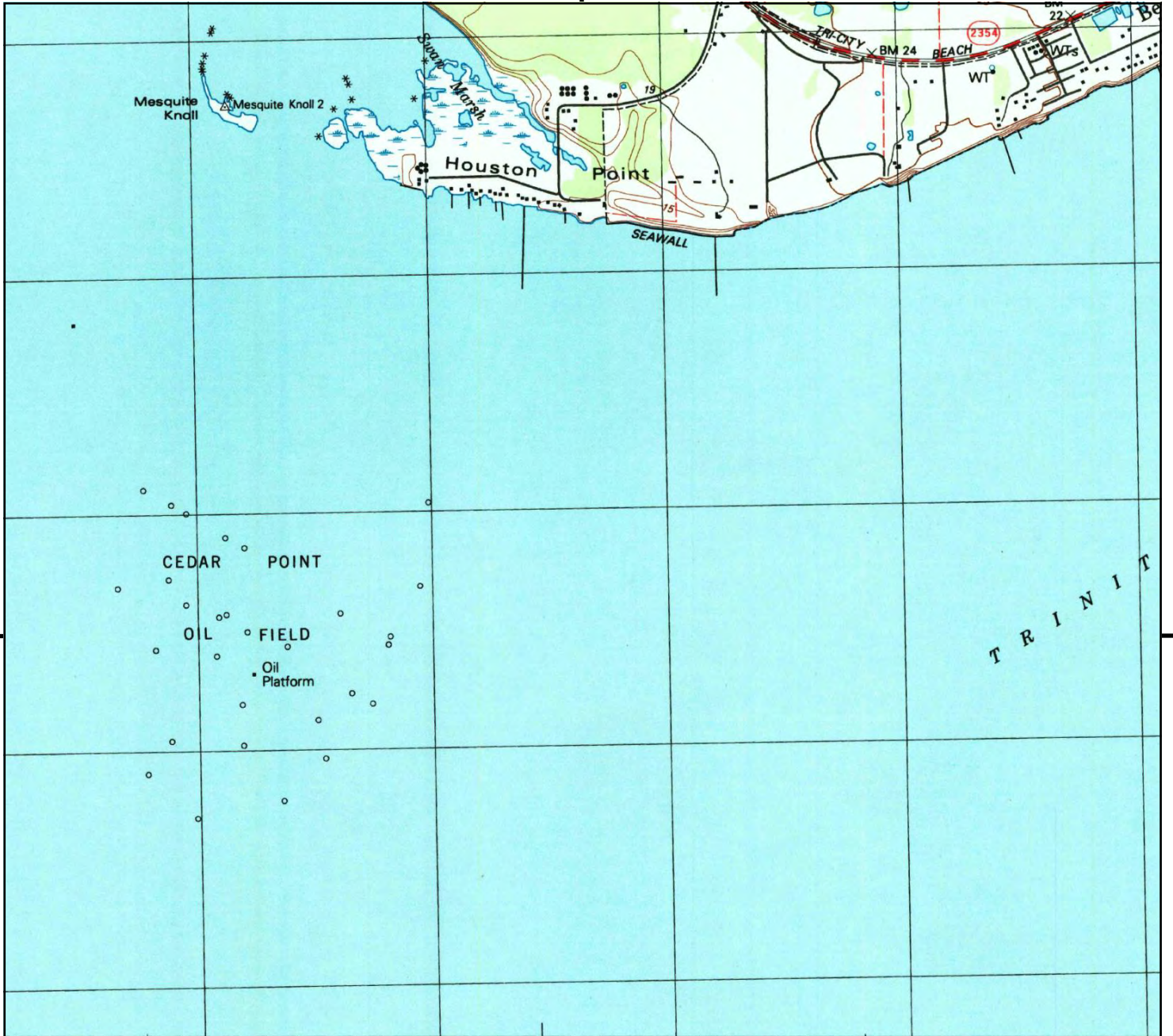
This report includes information from the following map sheet(s).



TP, Morgans Point, 1995, 7.5-minute

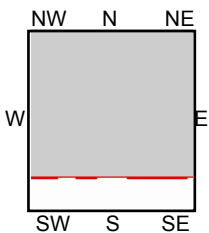
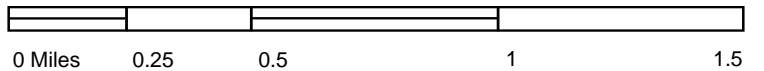
SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
 Baytown, TX 77523
CLIENT: Anchor QEA, LLC





UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED
UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED

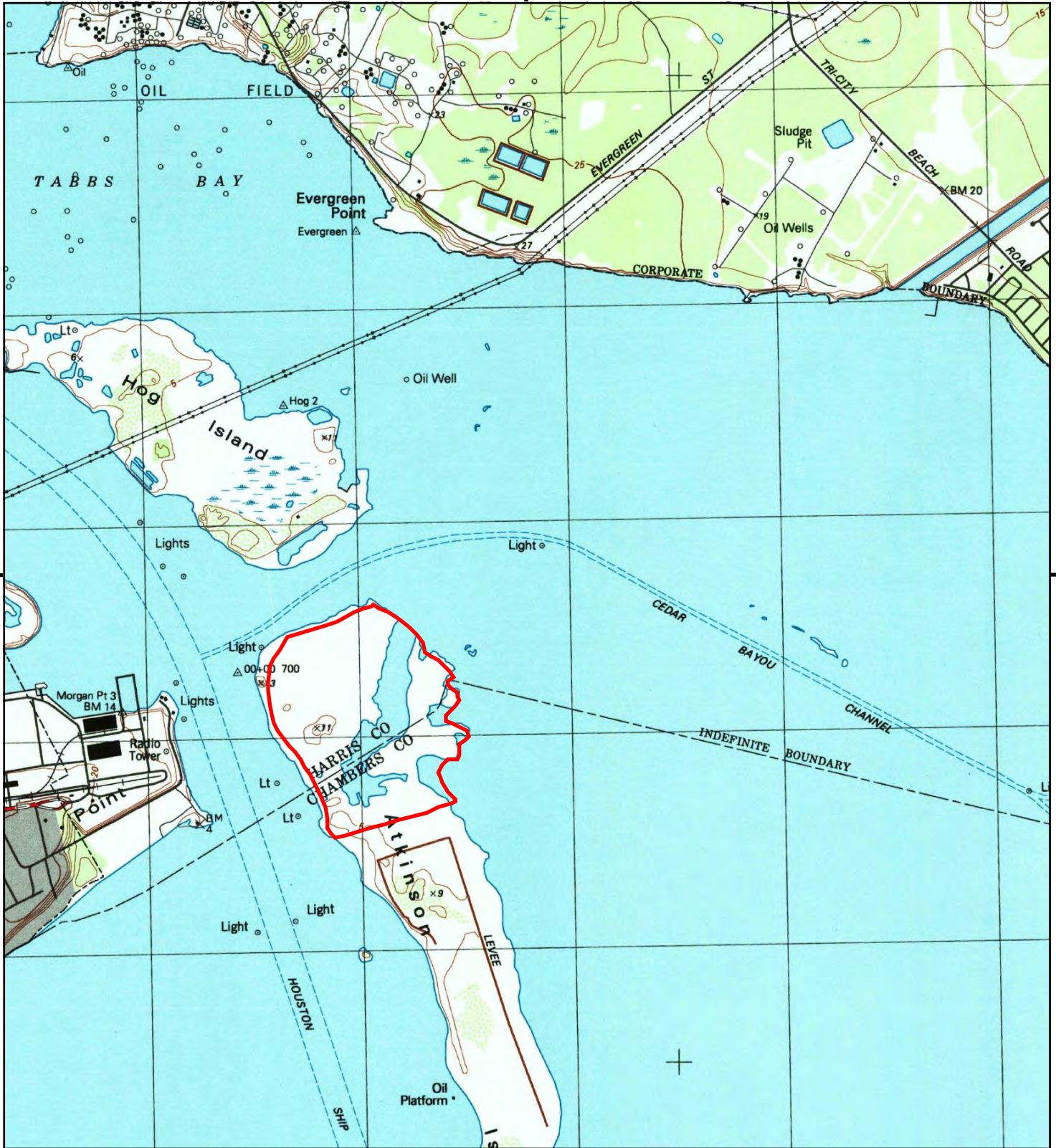
This report includes information from the following map sheet(s).



TP, Morgans Point, 1995, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





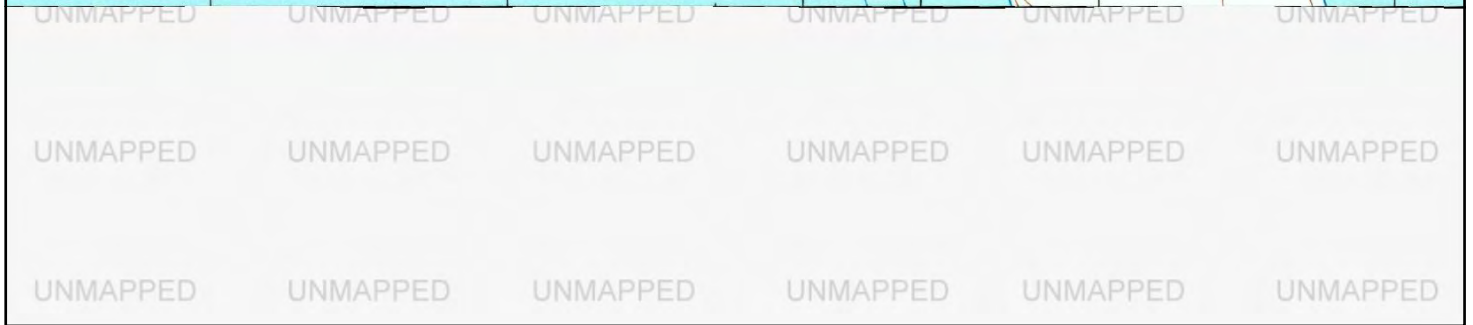
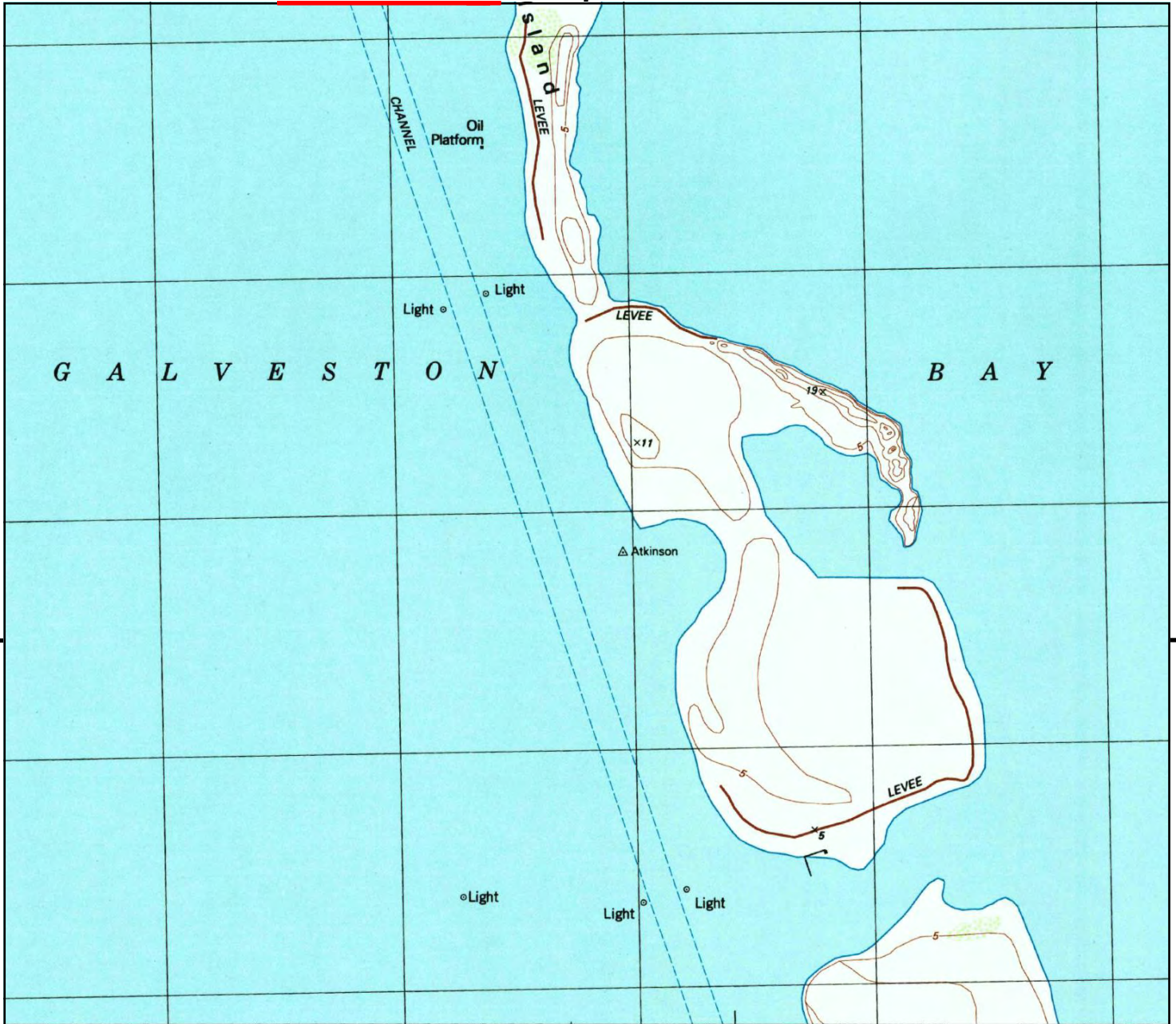
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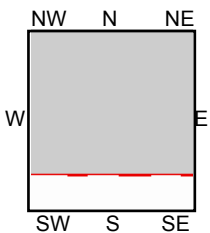
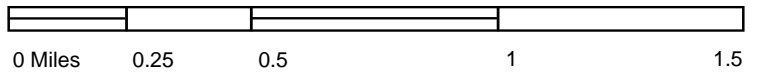
TP, Morgans Point, 1995, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





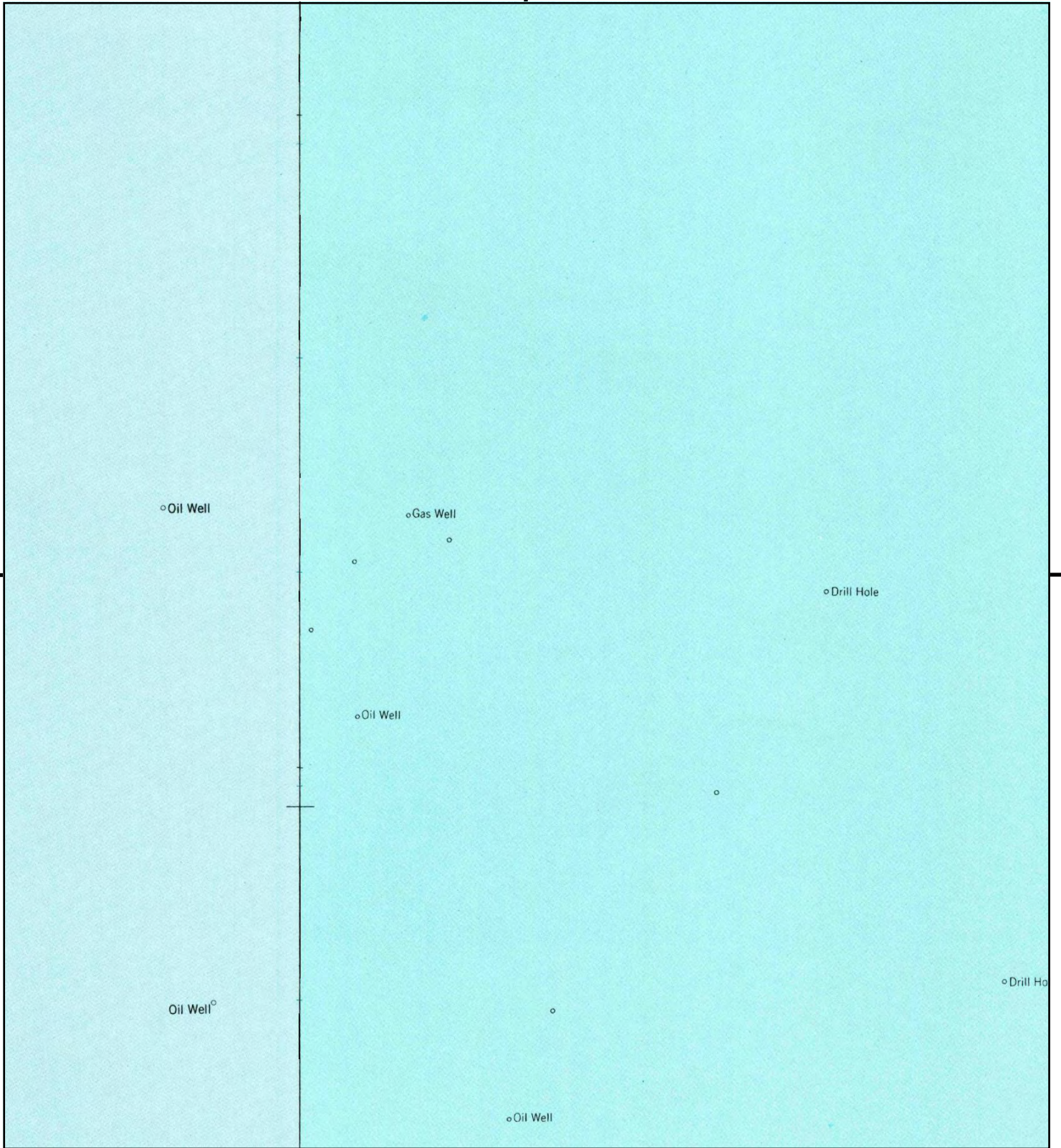
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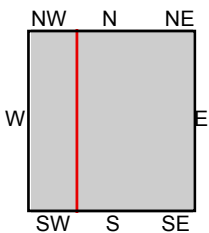
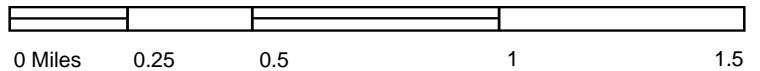
TP, Morgans Point, 1995, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





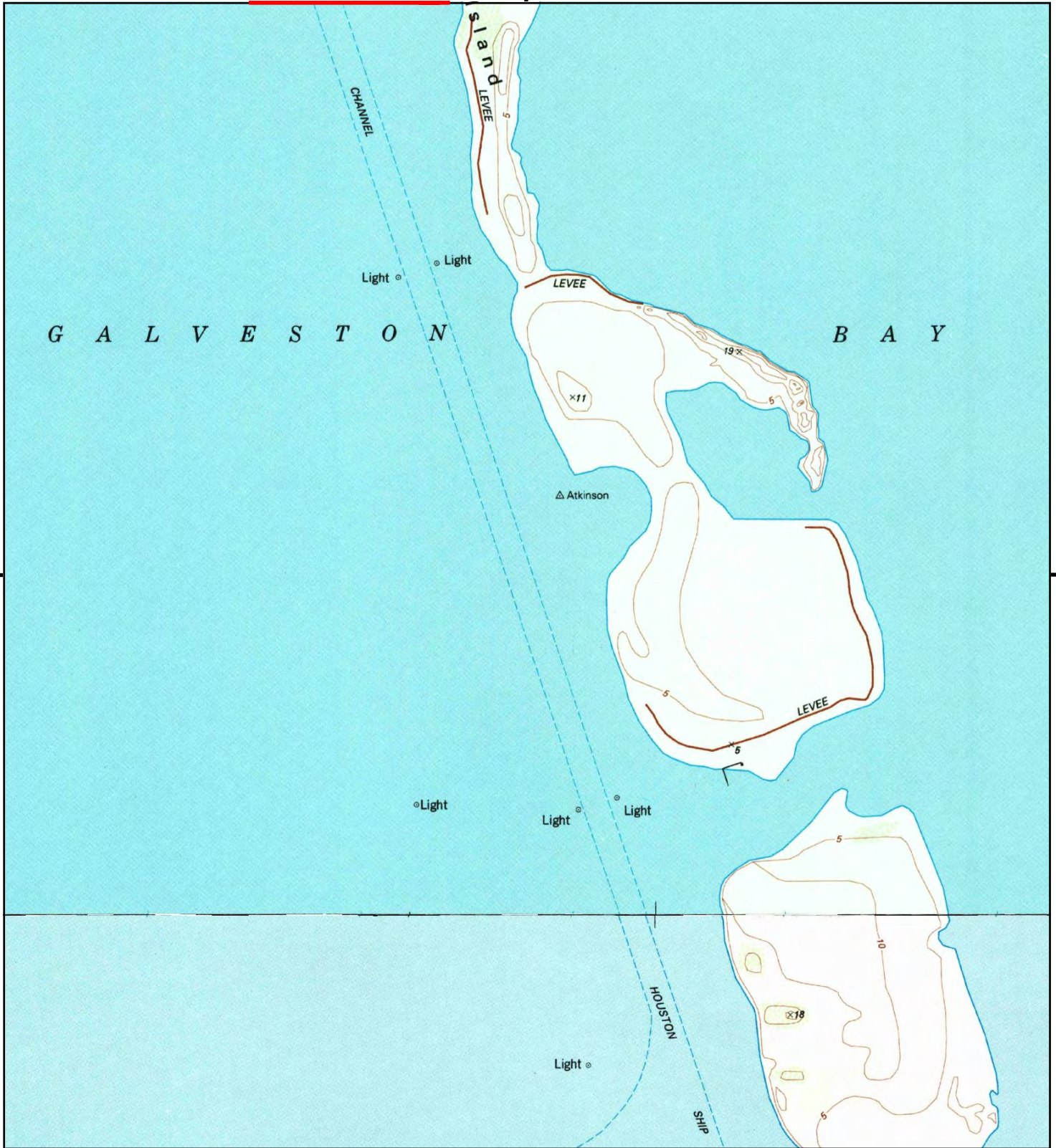
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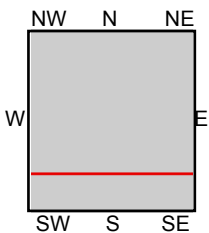
TP, Smith Point, 1993, 7.5-minute
 SW, Bacliff, 1993, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





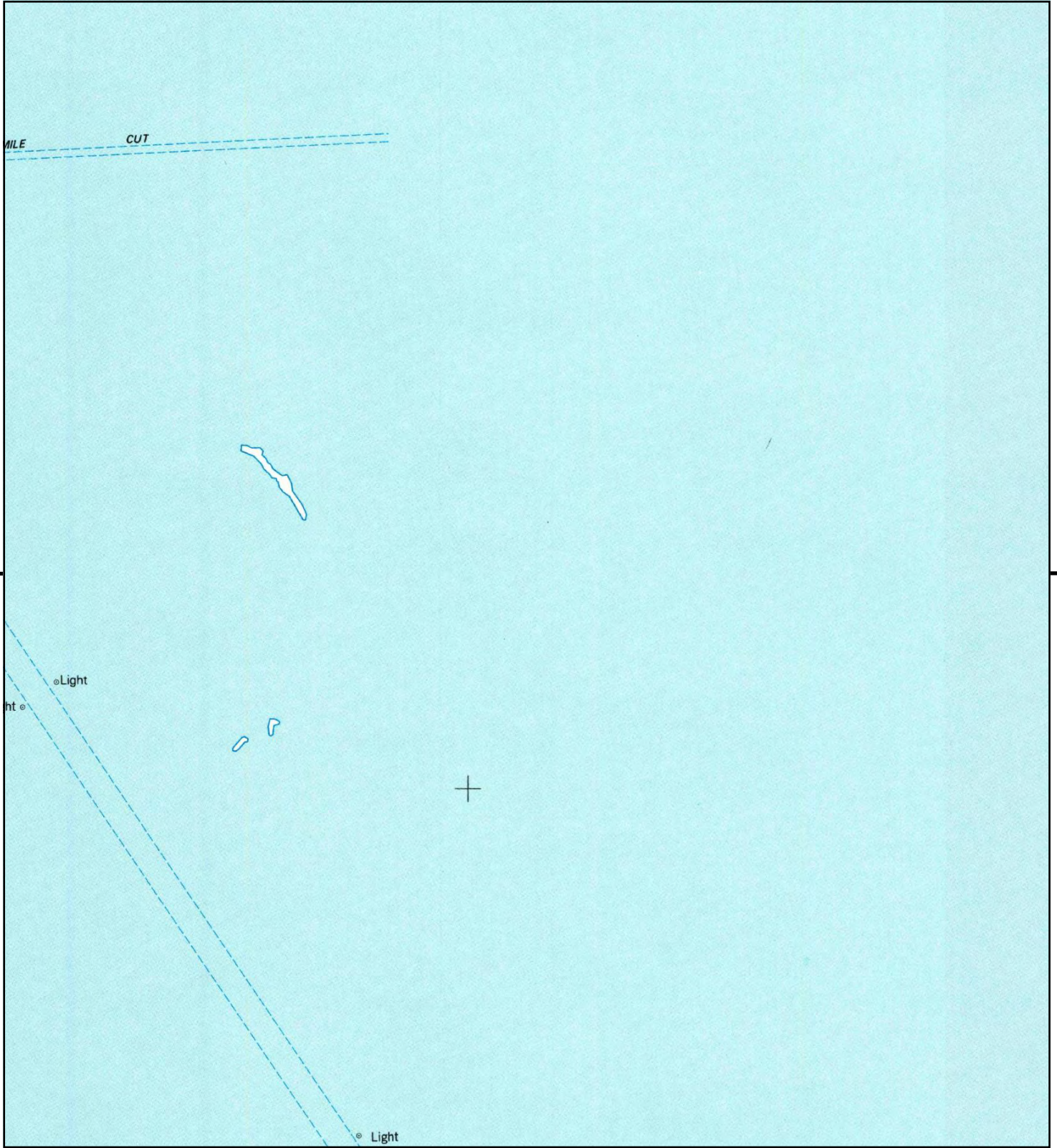
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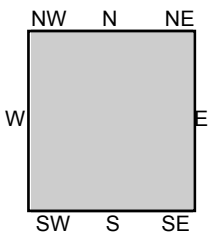
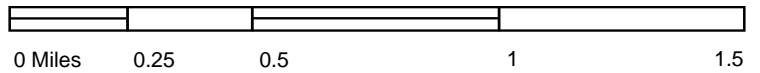
TP, Morgans Point, 1993, 7.5-minute
S, Bacliff, 1993, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
Baytown, TX 77523
CLIENT: Anchor QEA, LLC





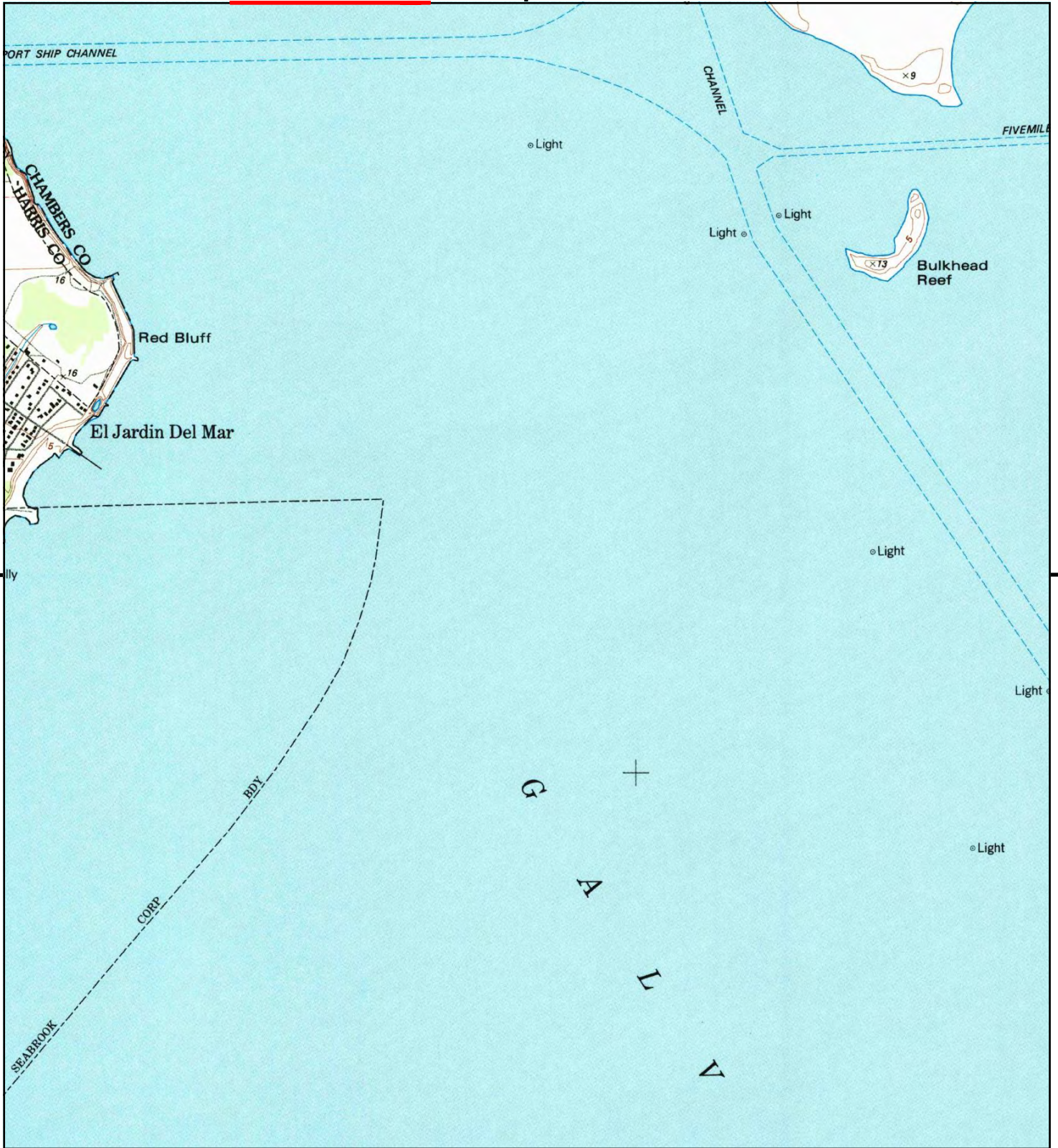
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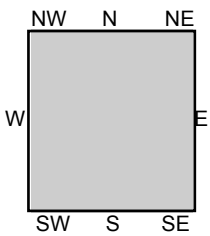
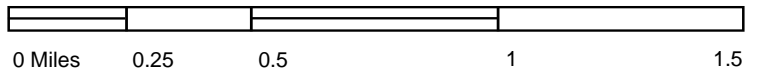
TP, Bacliff, 1993, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
Baytown, TX 77523
CLIENT: Anchor QEA, LLC





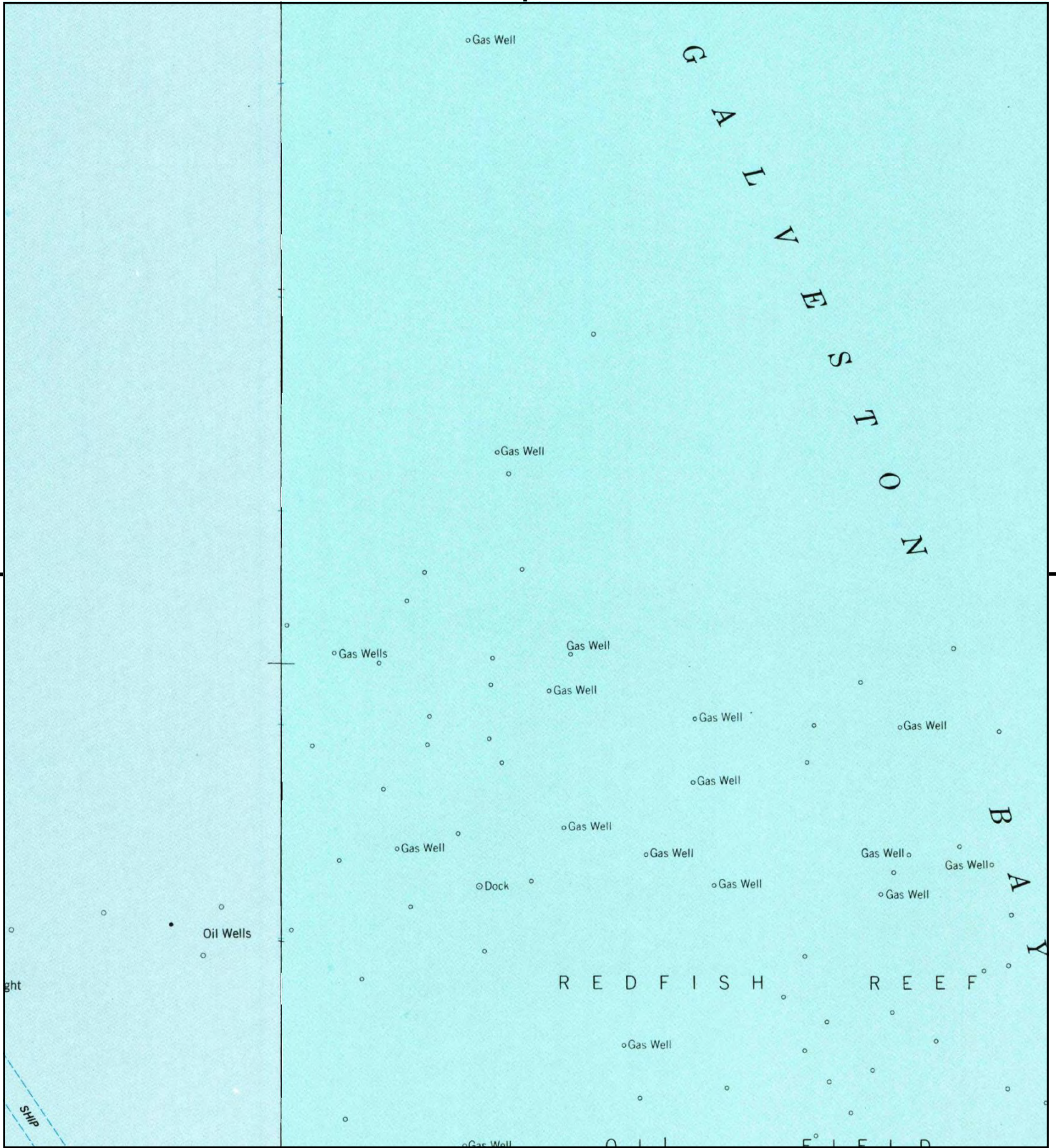
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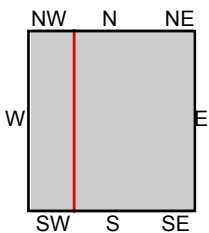
TP, Bacliff, 1993, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





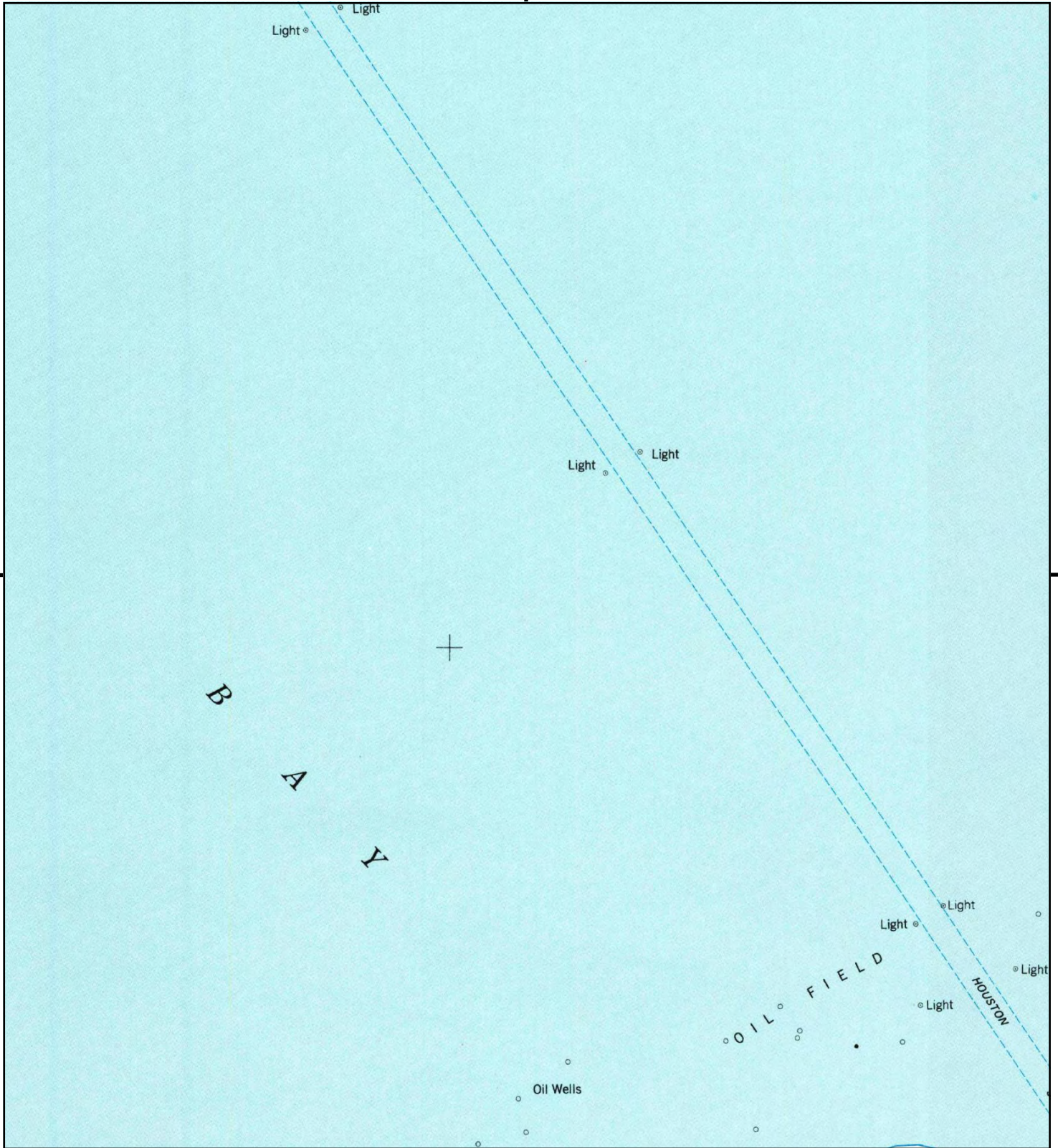
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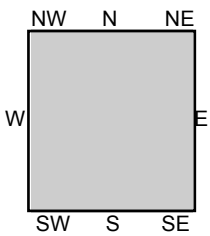
TP, Smith Point, 1993, 7.5-minute
W, Bacliff, 1993, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
Baytown, TX 77523
CLIENT: Anchor QEA, LLC





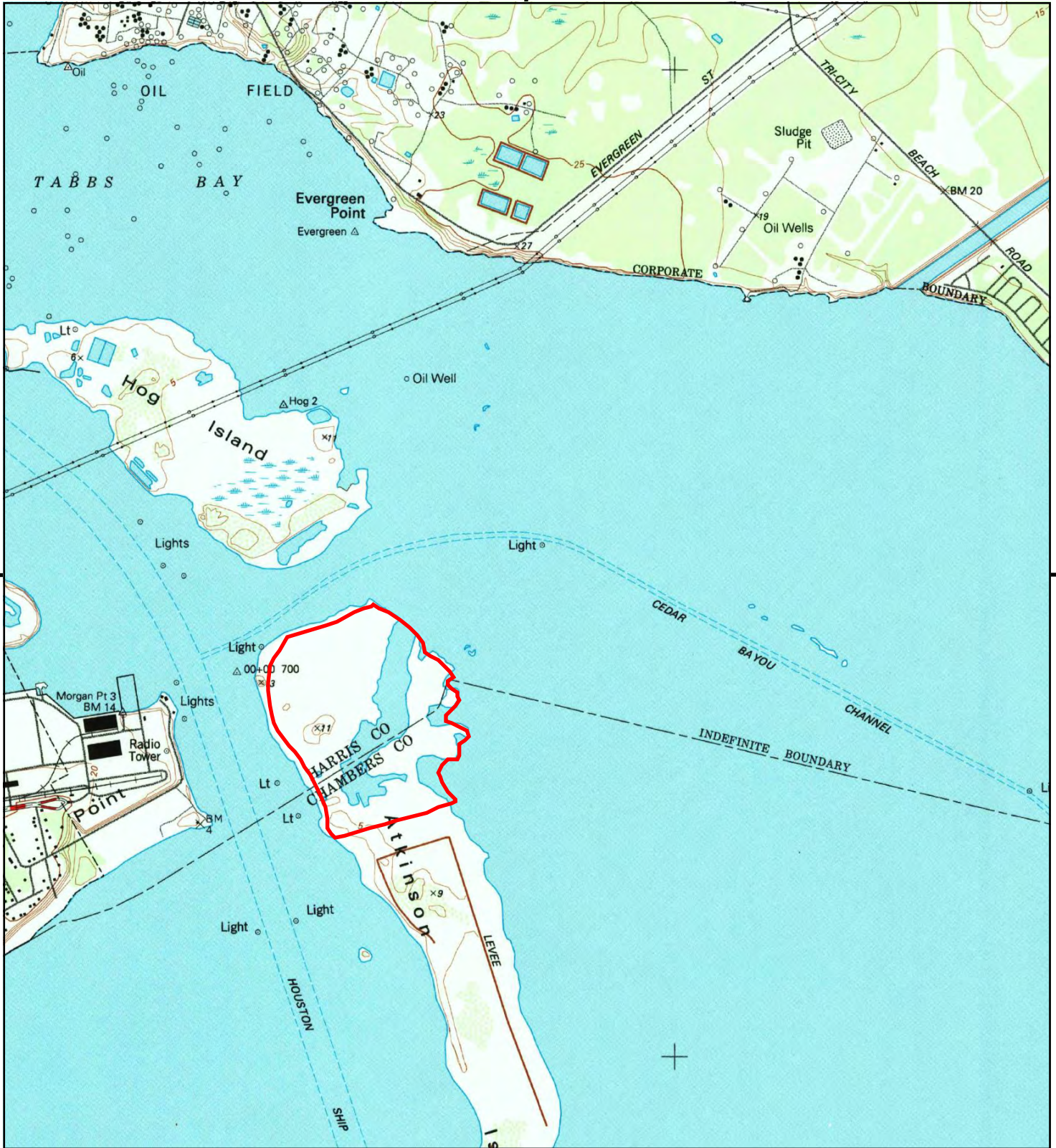
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TP, Bacliff, 1993, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
Baytown, TX 77523
CLIENT: Anchor QEA, LLC





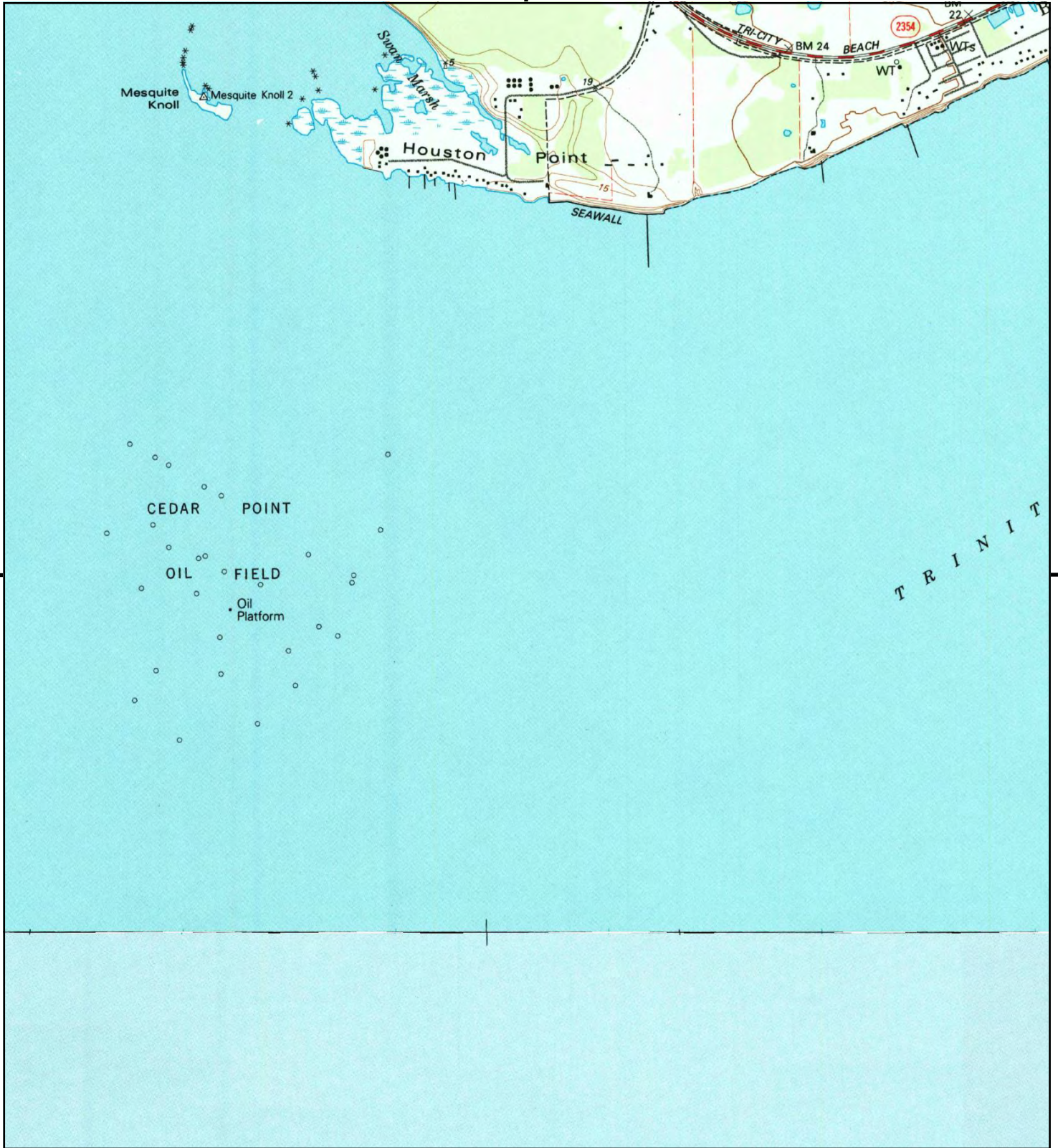
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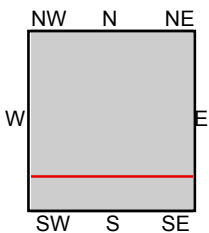
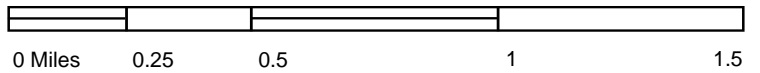
TP, Morgans Point, 1993, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
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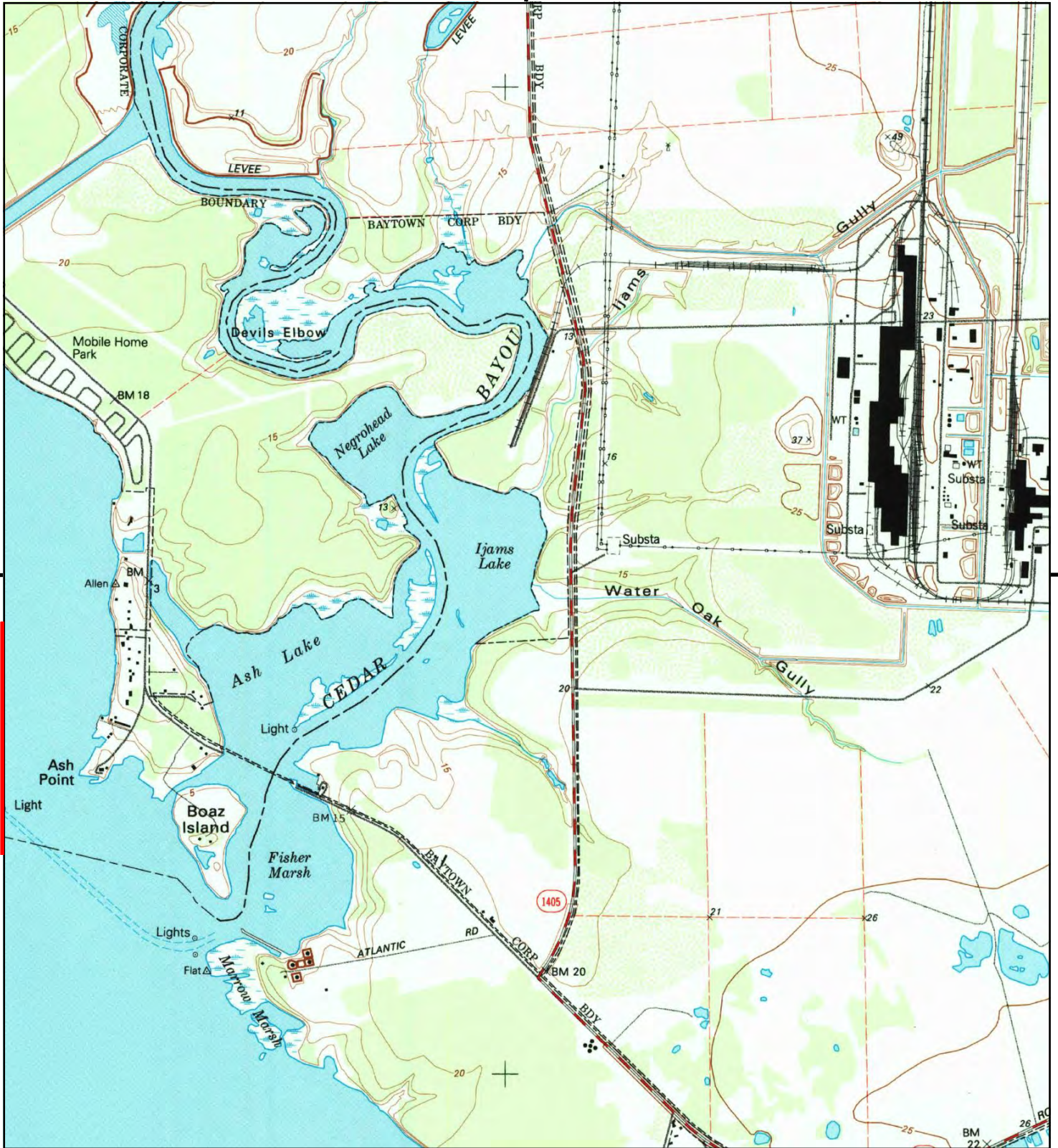
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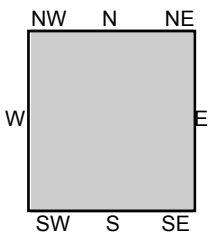
TP, Morgans Point, 1993, 7.5-minute
S, Bacliff, 1993, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
Baytown, TX 77523
CLIENT: Anchor QEA, LLC





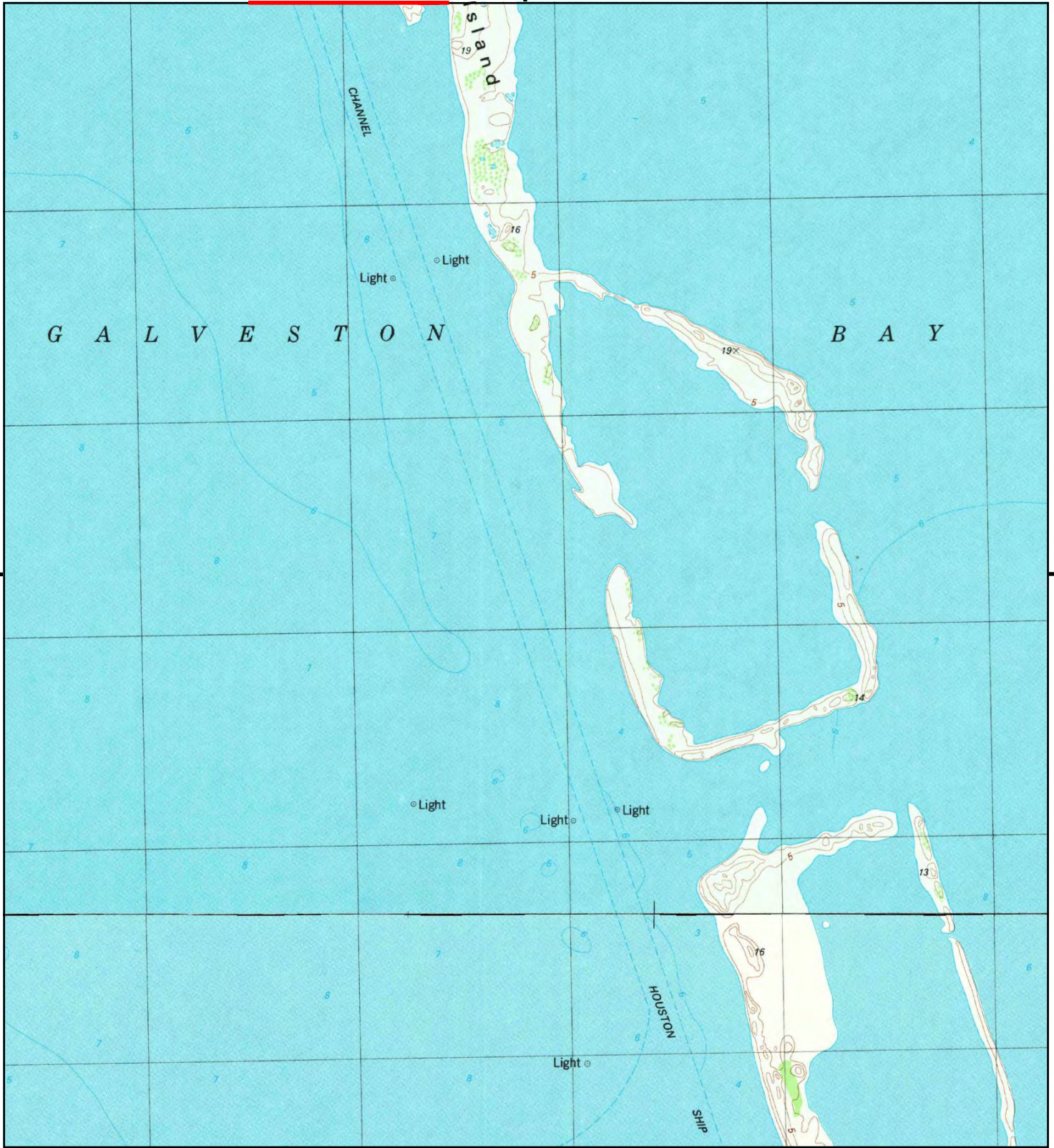
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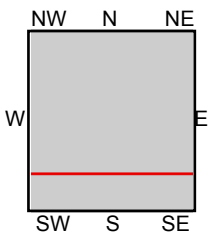
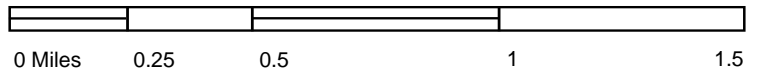
TP, Morgans Point, 1993, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
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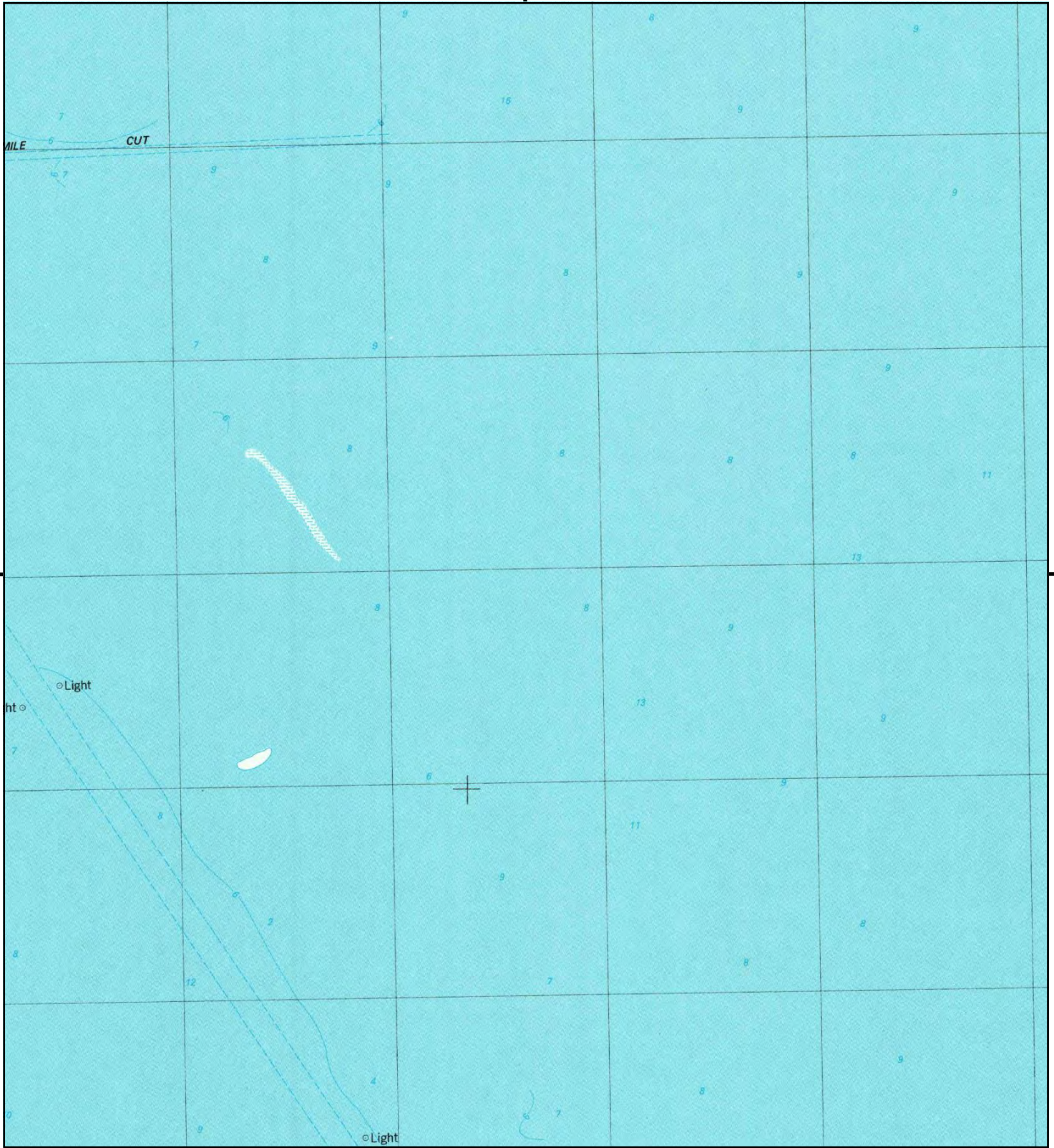
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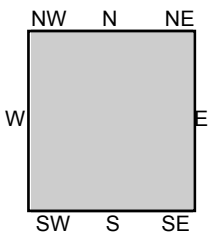
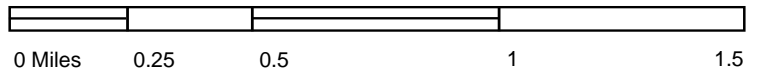
TP, Morgans Point, 1982, 7.5-minute
S, Bacliff, 1982, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
Baytown, TX 77523
CLIENT: Anchor QEA, LLC





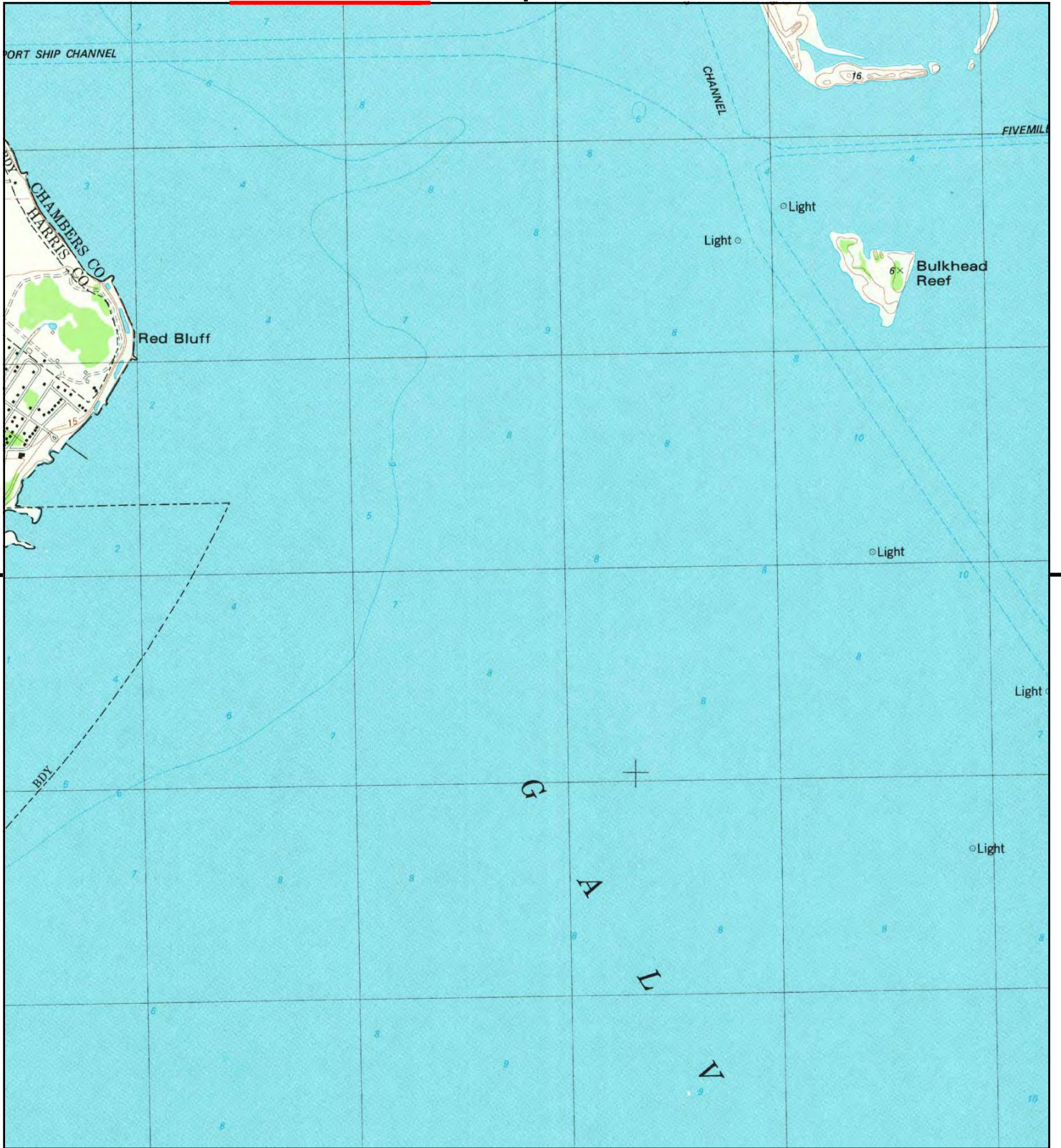
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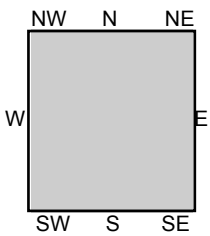
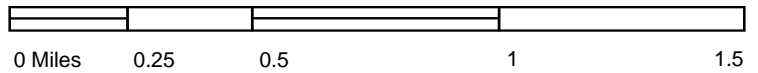
TP, Bacliff, 1982, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





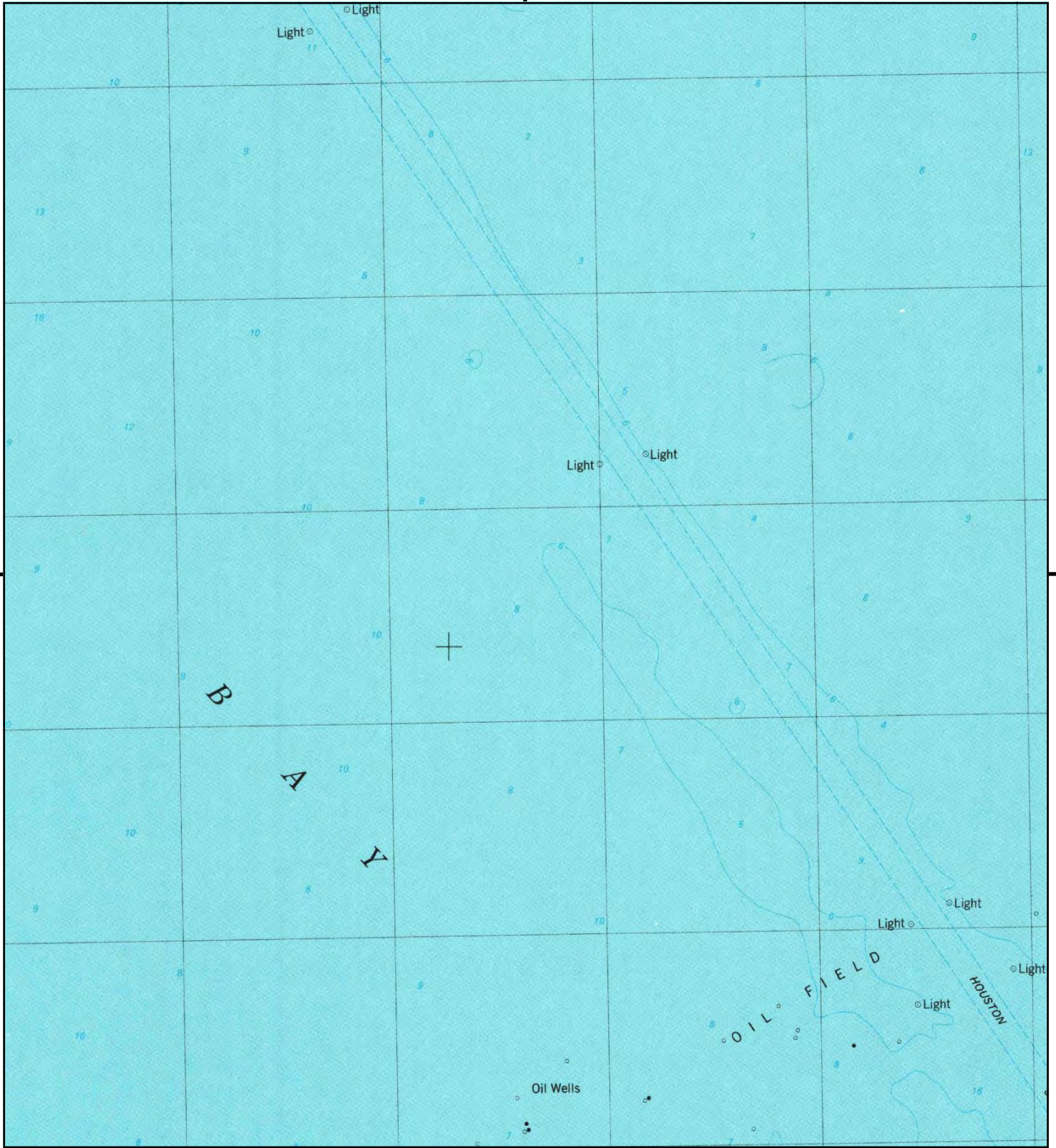
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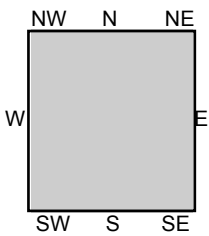
TP, Bacliff, 1982, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





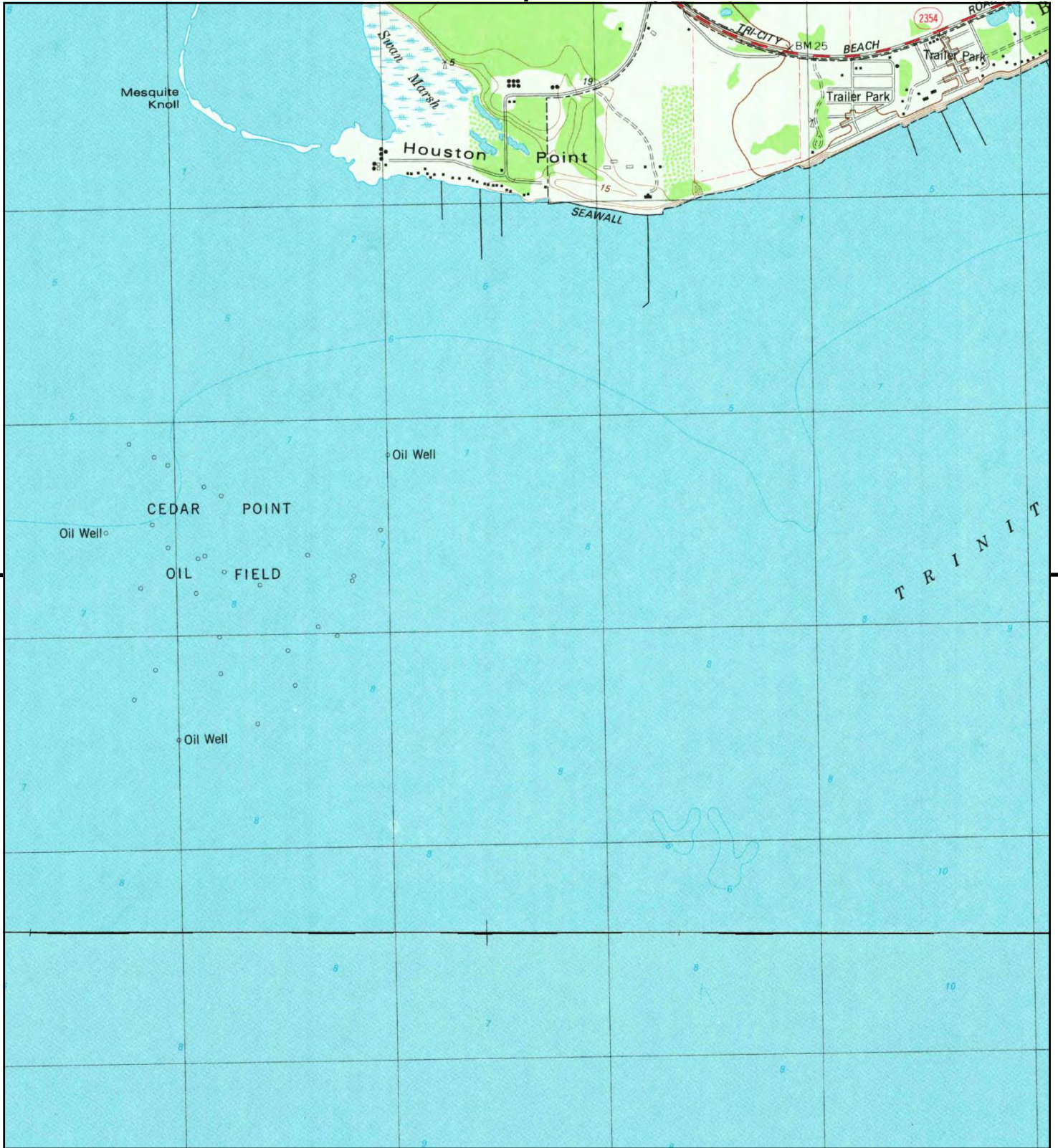
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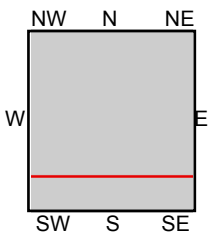
TP, Bacliff, 1982, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
 Baytown, TX 77523
CLIENT: Anchor QEA, LLC





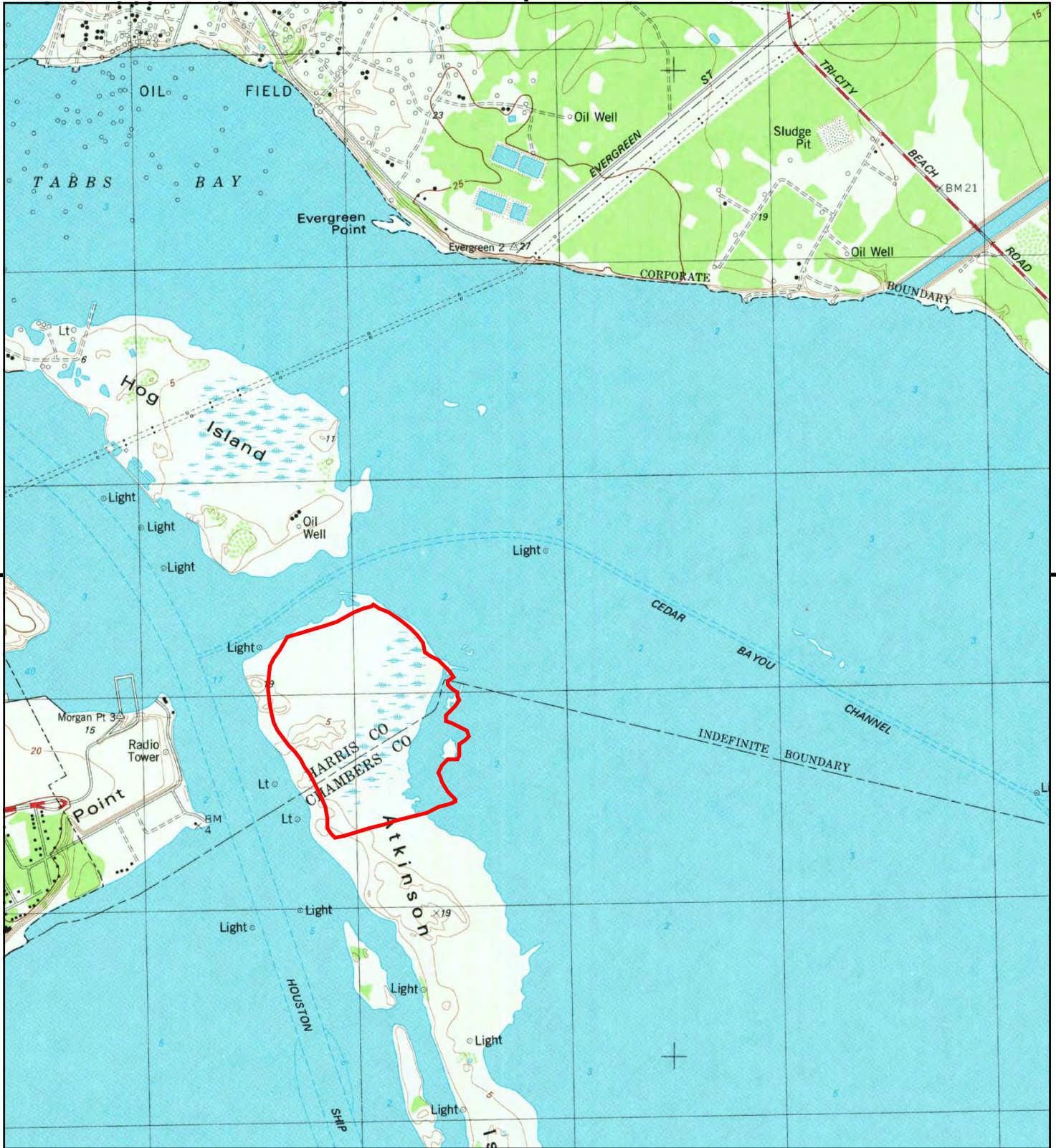
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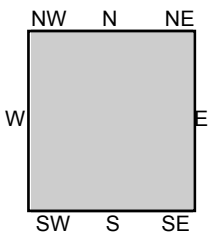
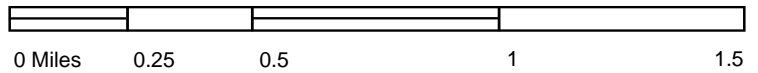
TP, Morgans Point, 1982, 7.5-minute
S, Bacliff, 1982, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
Baytown, TX 77523
CLIENT: Anchor QEA, LLC





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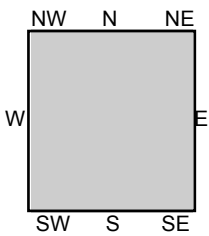
TP, Morgans Point, 1982, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
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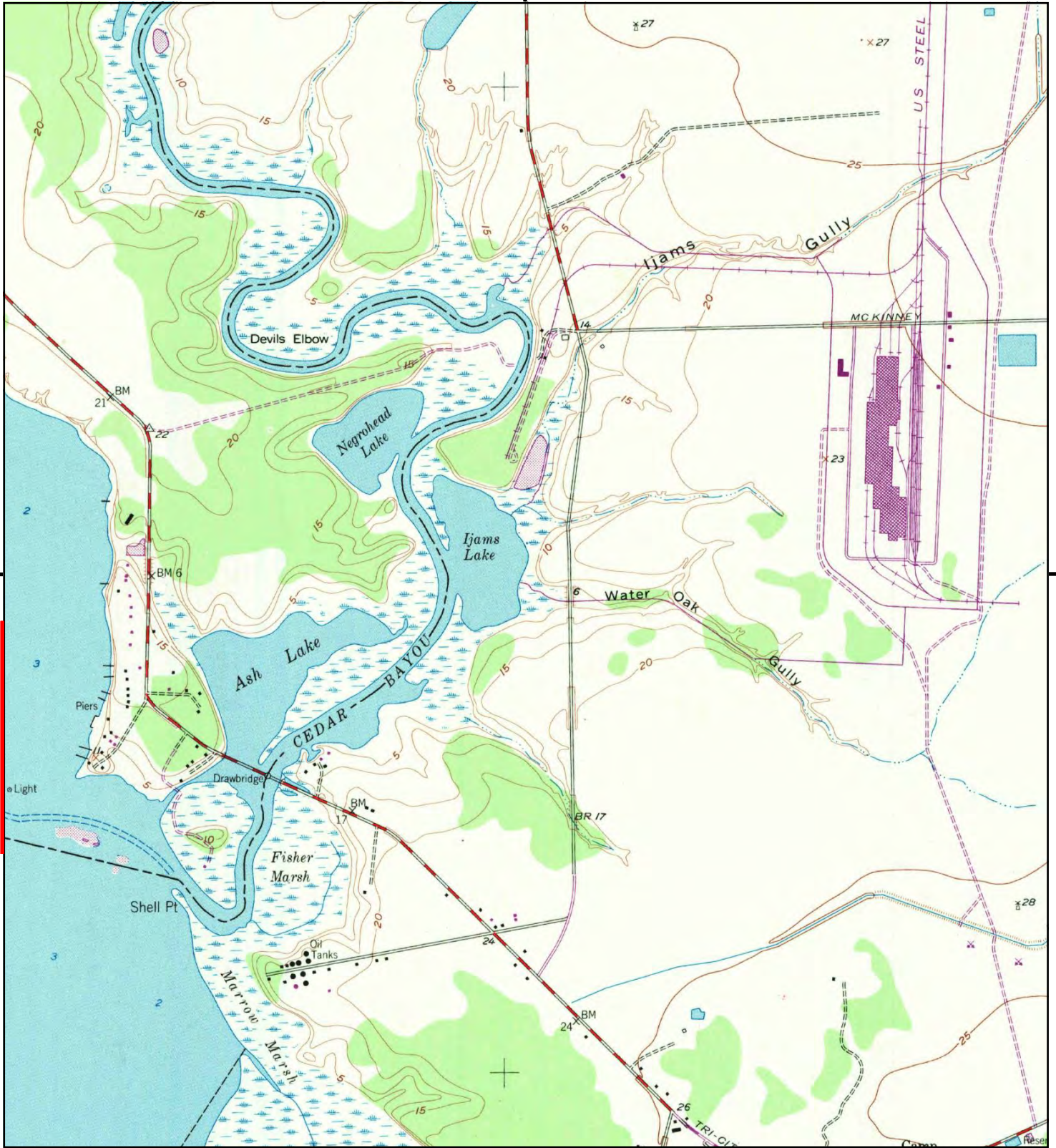
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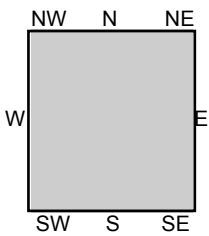
TP, Morgans Point, 1982, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
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CLIENT: Anchor QEA, LLC





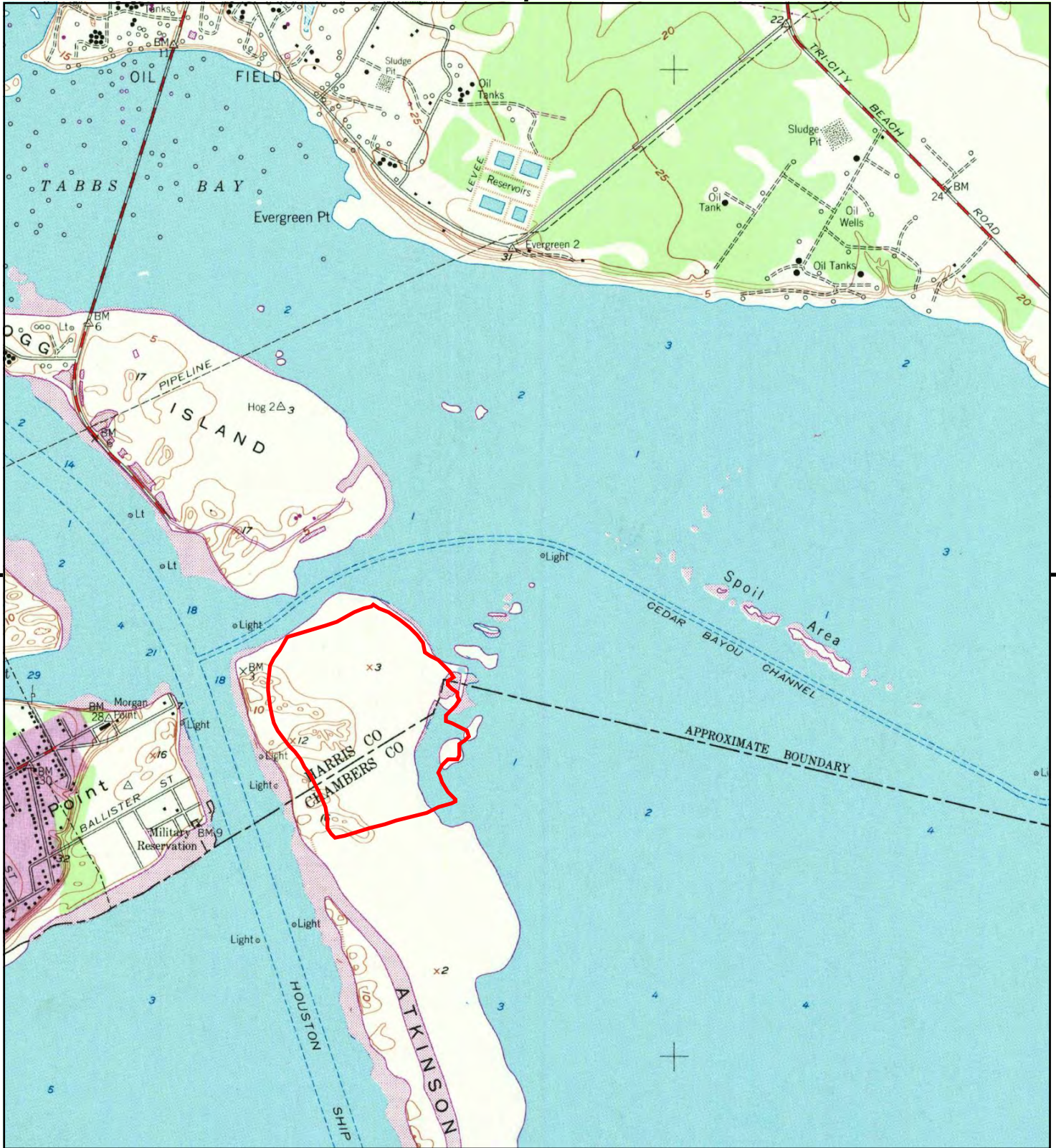
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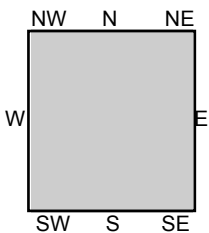
TP, Morgan Point, 1969, 7.5-minute
 TP, Morgans Point, 1969, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
 Baytown, TX 77523
CLIENT: Anchor QEA, LLC





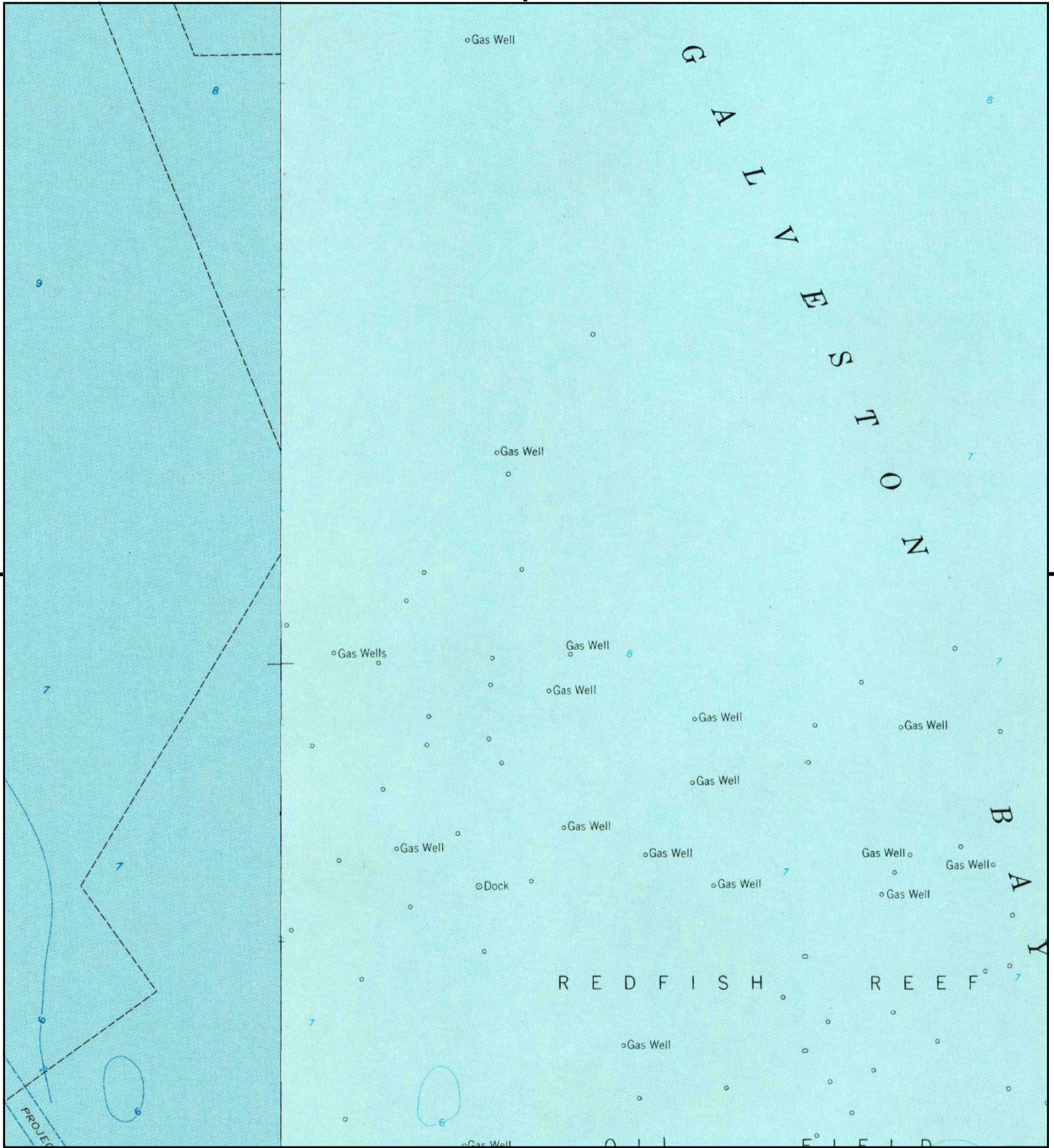
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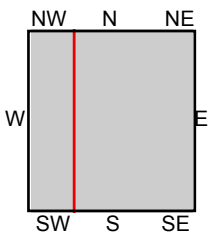
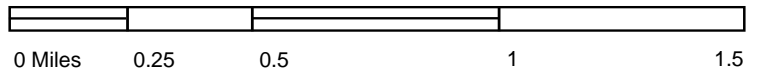
TP, Morgan Point, 1969, 7.5-minute
 TP, Morgans Point, 1969, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
 Baytown, TX 77523
CLIENT: Anchor QEA, LLC





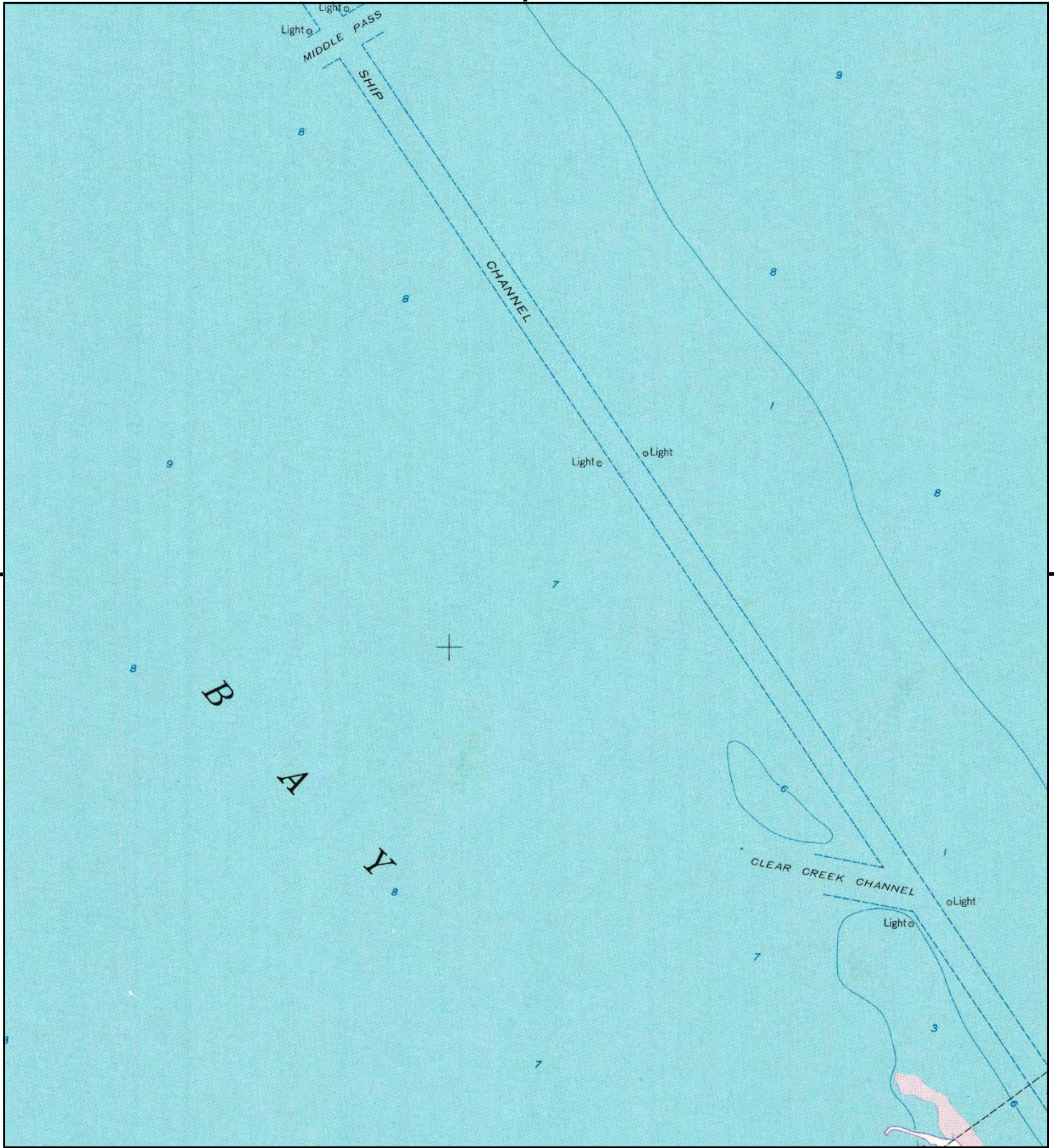
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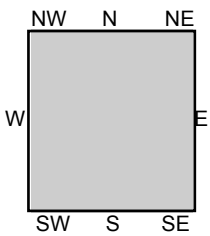
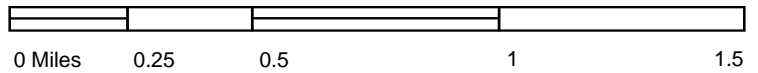
TP, Smith Point, 1974, 7.5-minute
W, Bacliff, 1969, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
Baytown, TX 77523
CLIENT: Anchor QEA, LLC





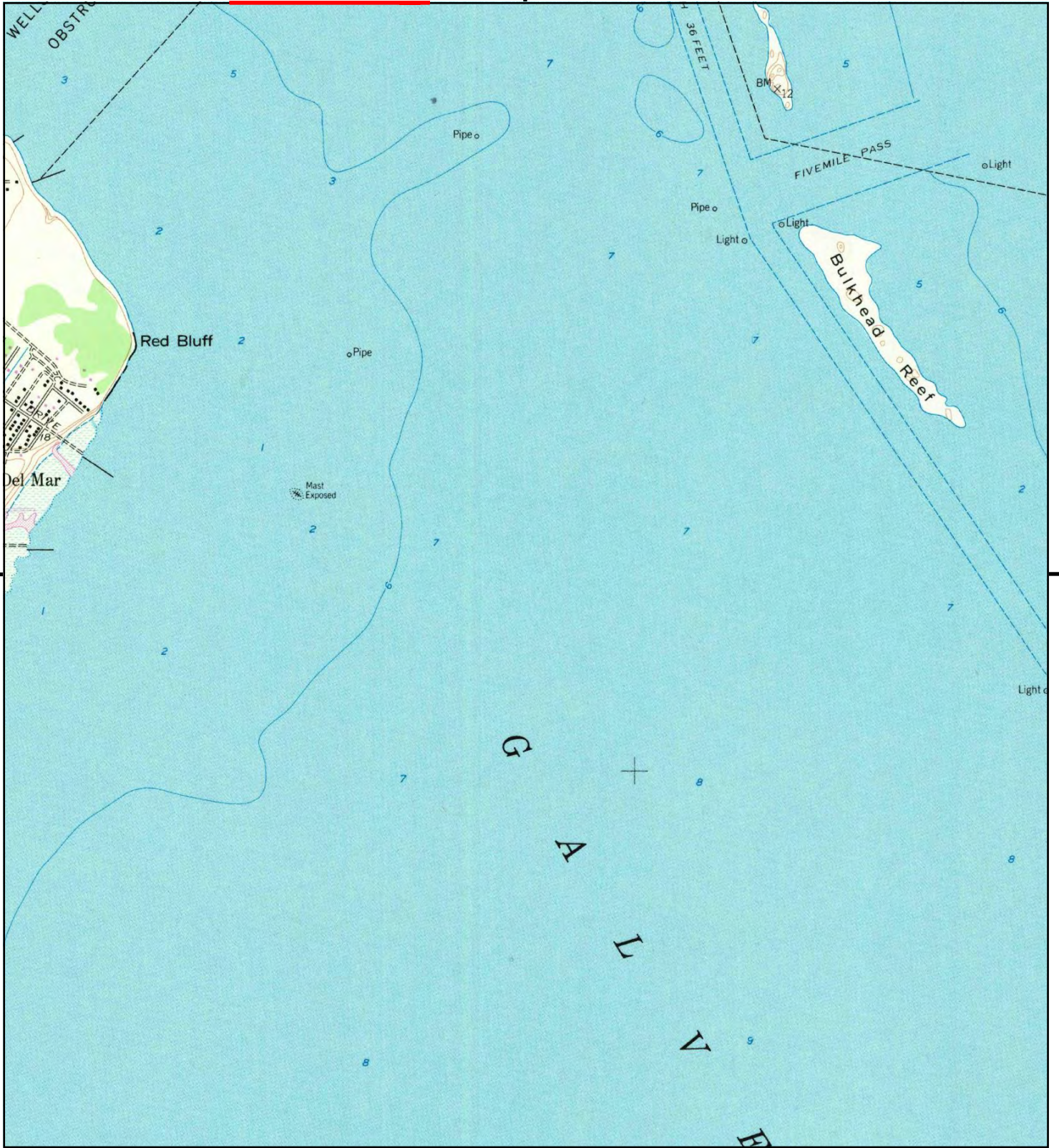
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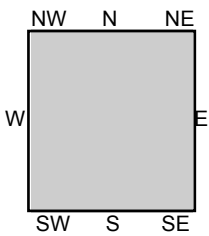
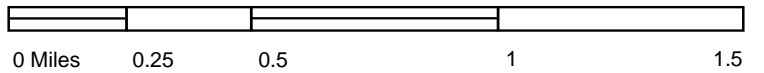
TP, Bacliff, 1969, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
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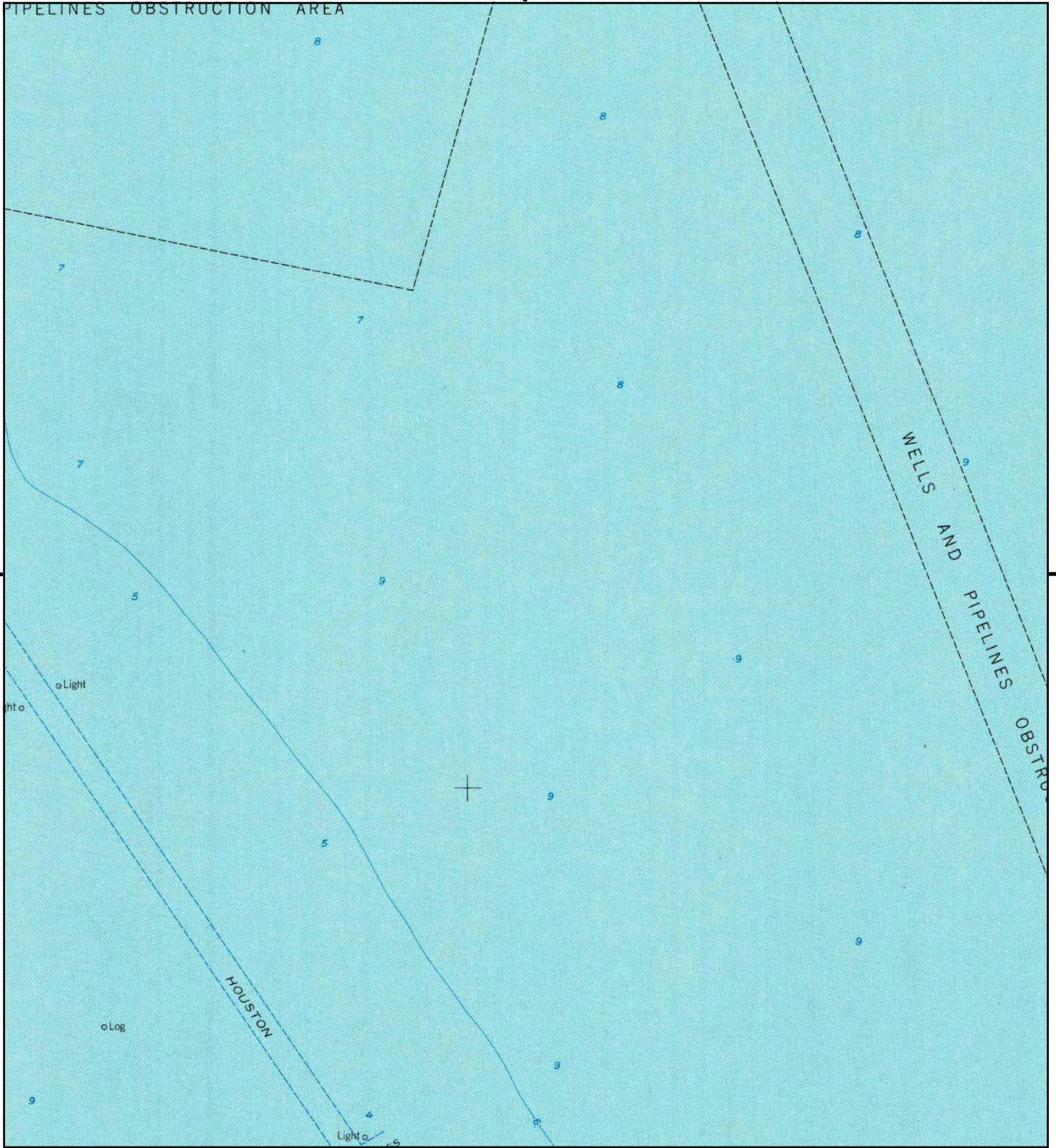
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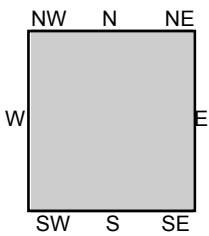
TP, Bacliff, 1969, 7.5-minute

SITE NAME: CPIND Deepwater Channel
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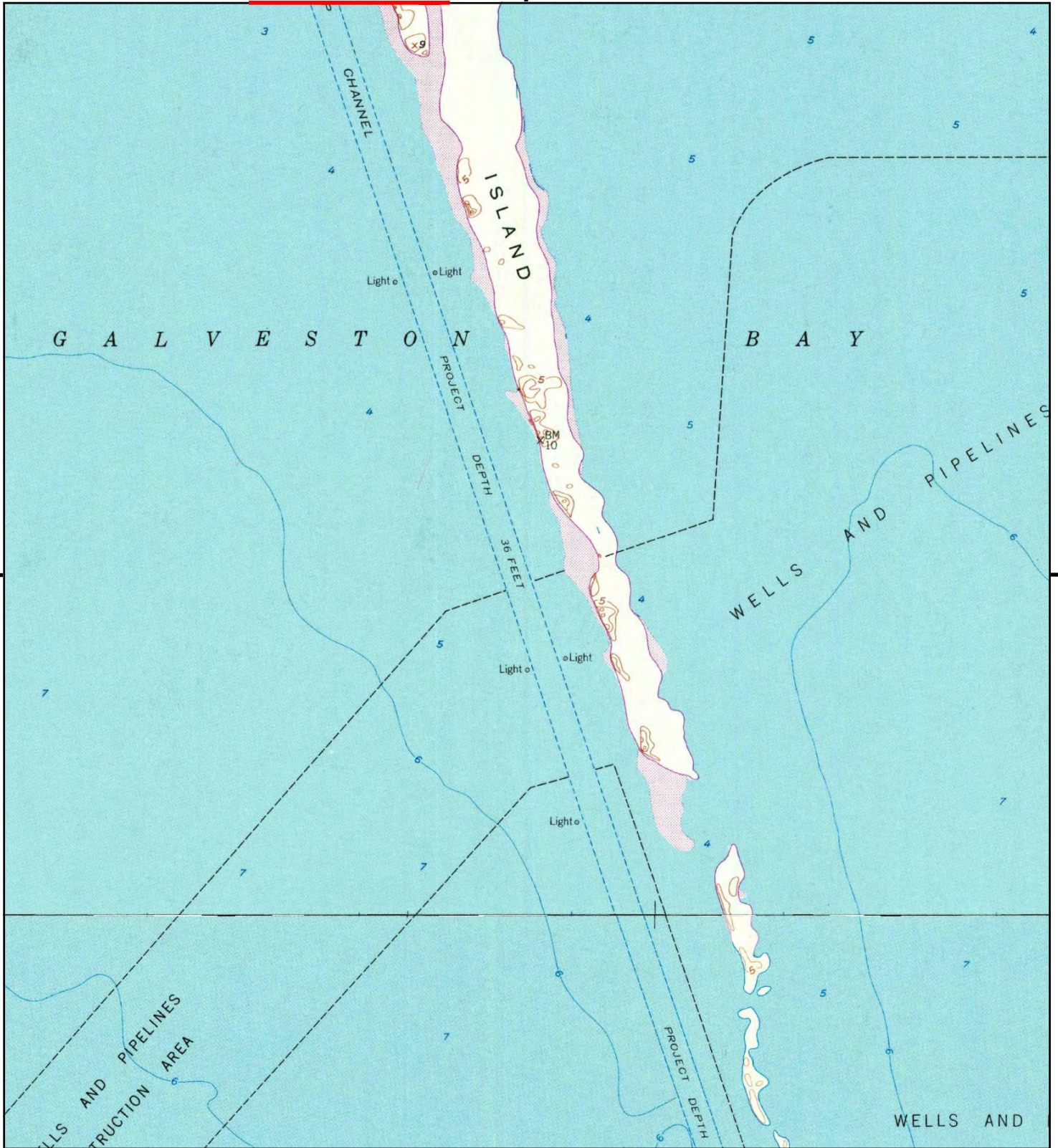
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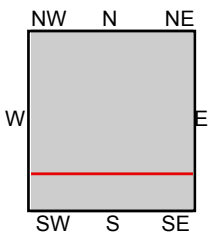
TP, Bacliff, 1969, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
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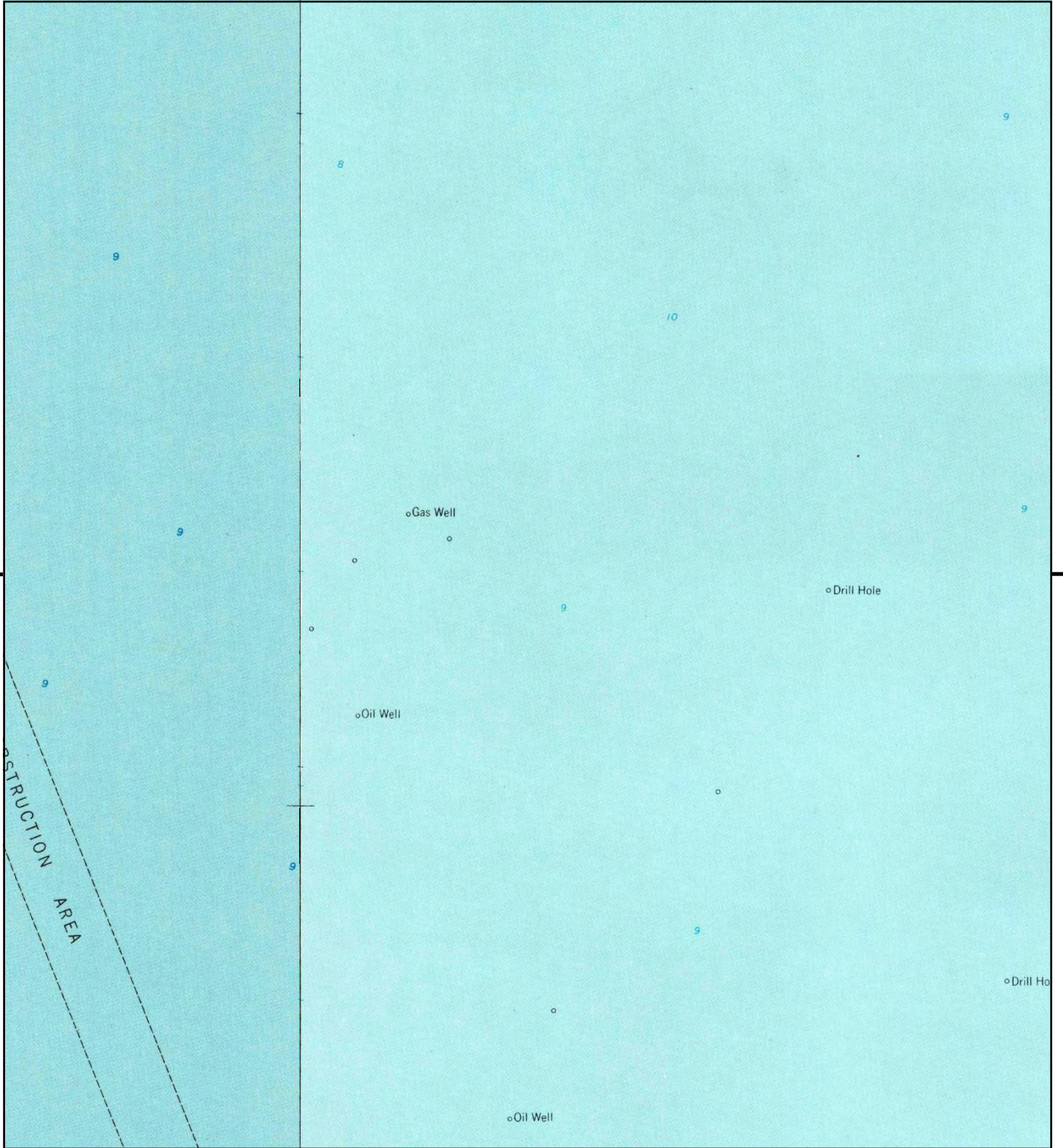
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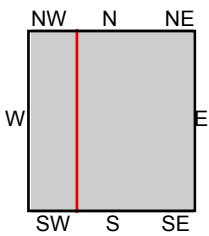
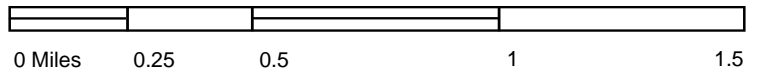
TP, Morgan Point, 1969, 7.5-minute
 S, Bacliff, 1969, 7.5-minute
 TP, Morgans Point, 1969, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
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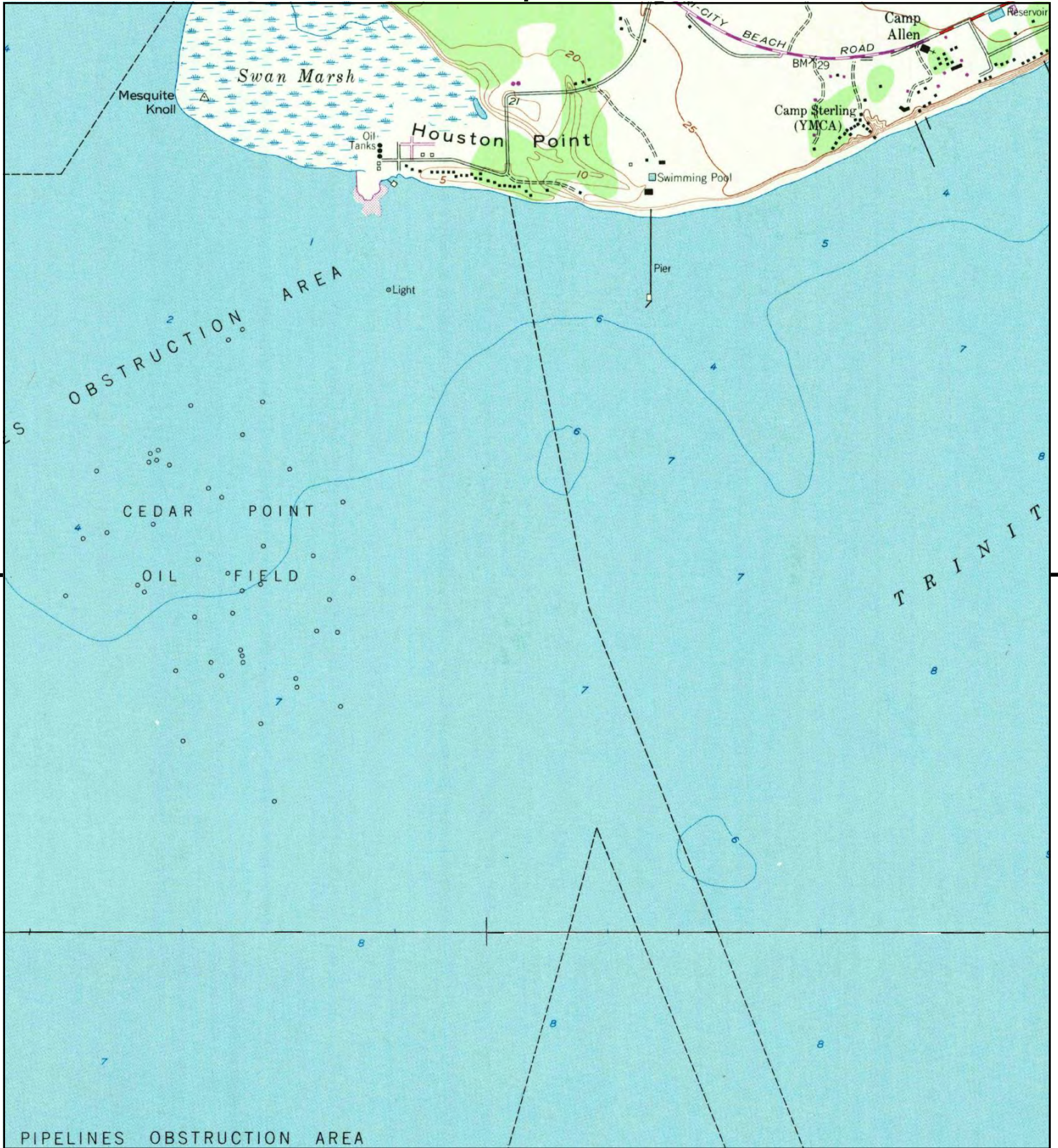
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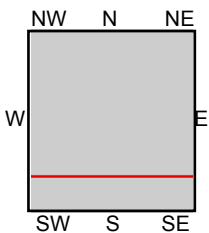
TP, Smith Point, 1974, 7.5-minute
SW, Bacliff, 1969, 7.5-minute

SITE NAME: CPIND Deepwater Channel
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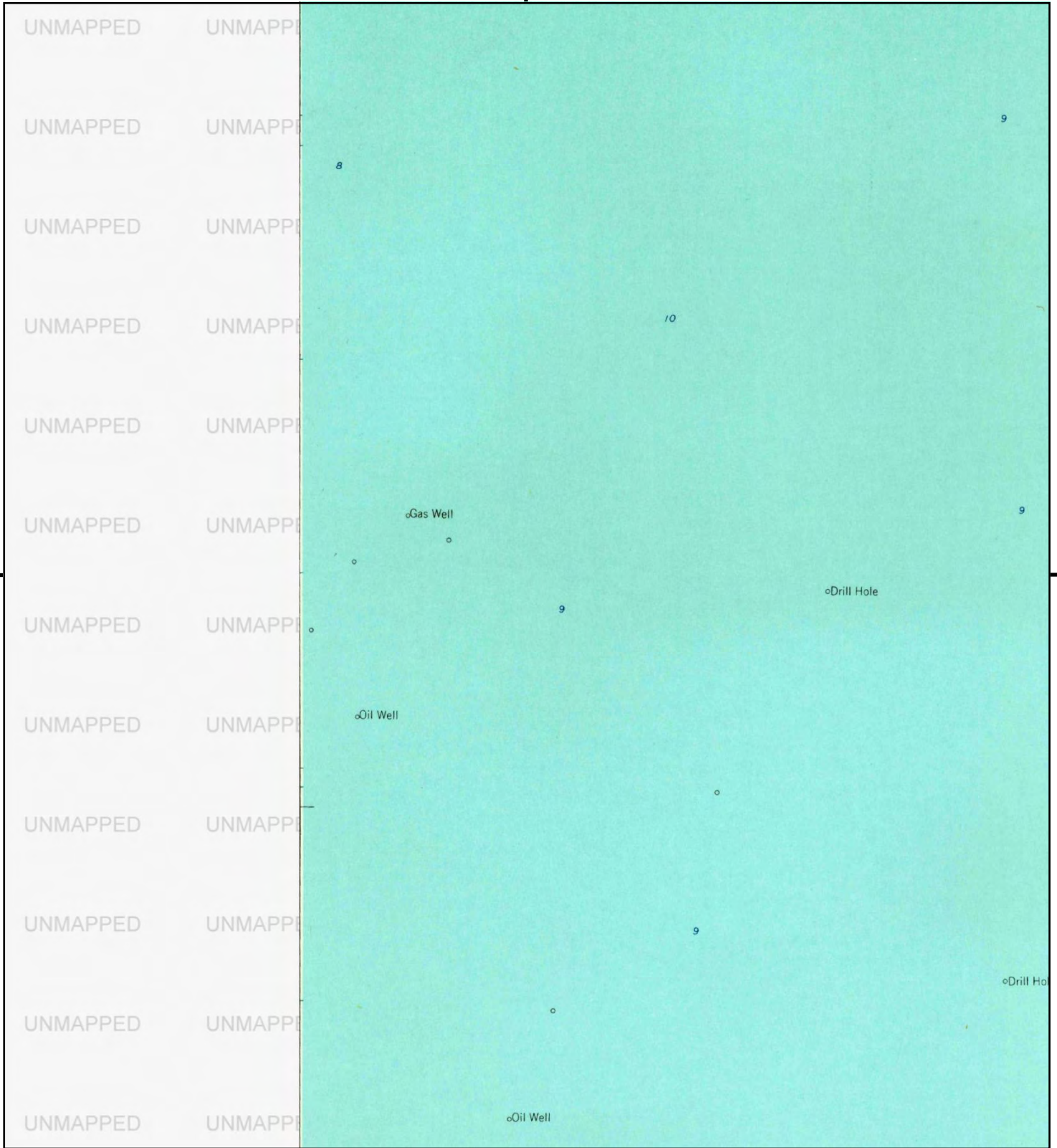
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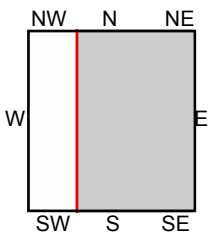
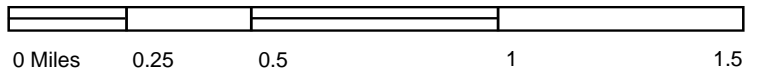
TP, Morgan Point, 1969, 7.5-minute
 S, Bacliff, 1969, 7.5-minute
 TP, Morgans Point, 1969, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
 Baytown, TX 77523
CLIENT: Anchor QEA, LLC





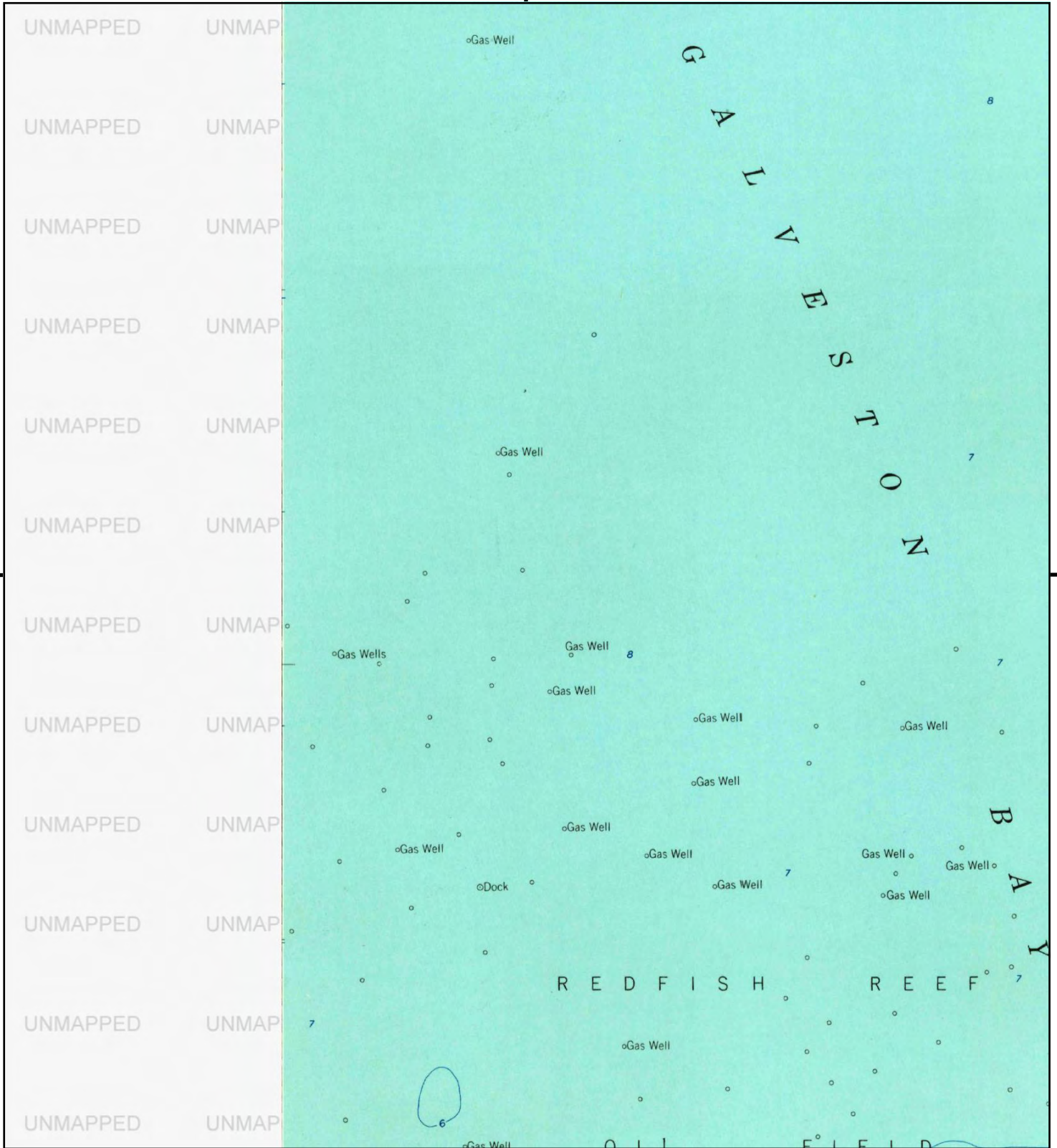
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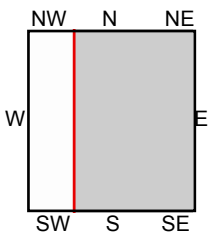
TP, Smith Point, 1961, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





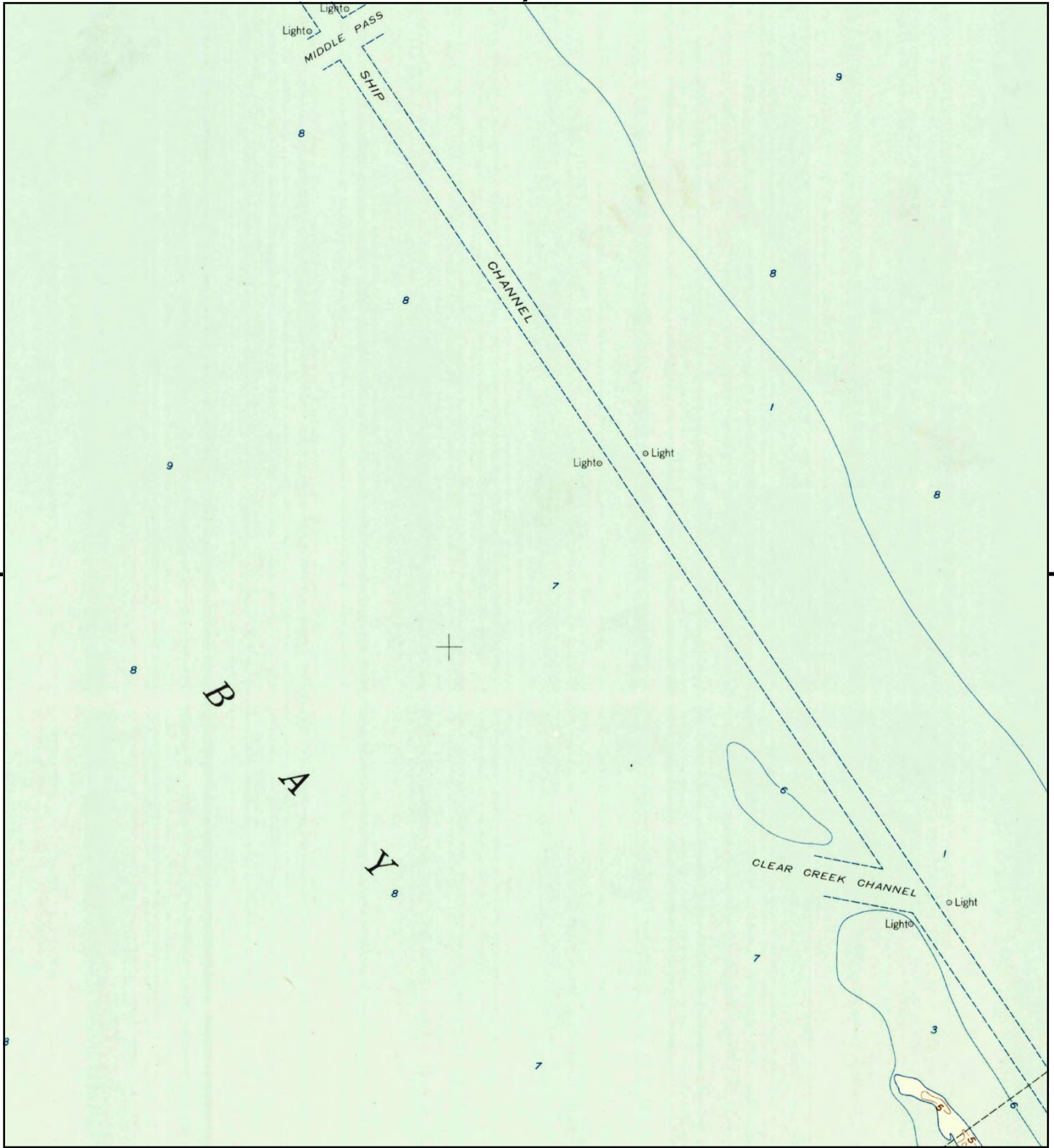
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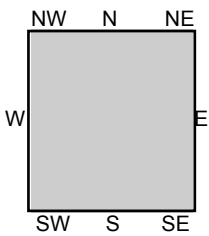
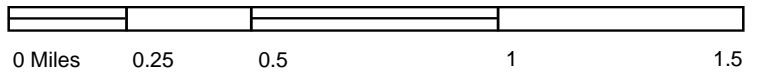
TP, Smith Point, 1961, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





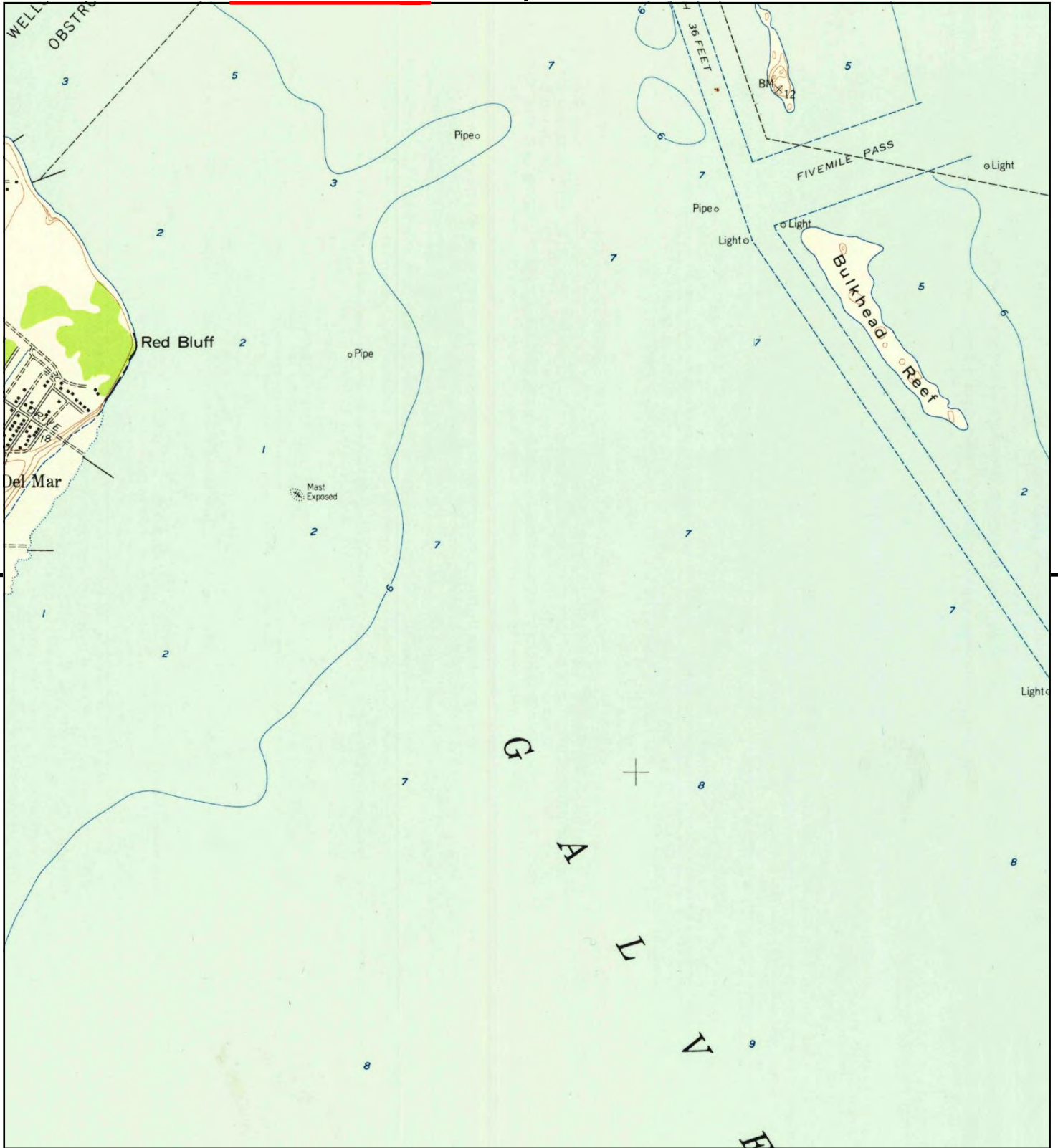
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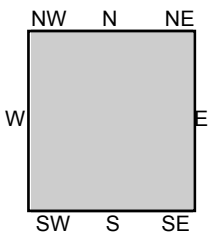
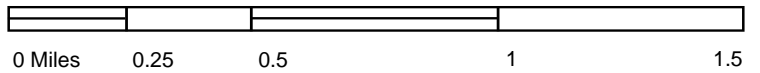
TP, Bacliff, 1956, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
 Baytown, TX 77523
CLIENT: Anchor QEA, LLC





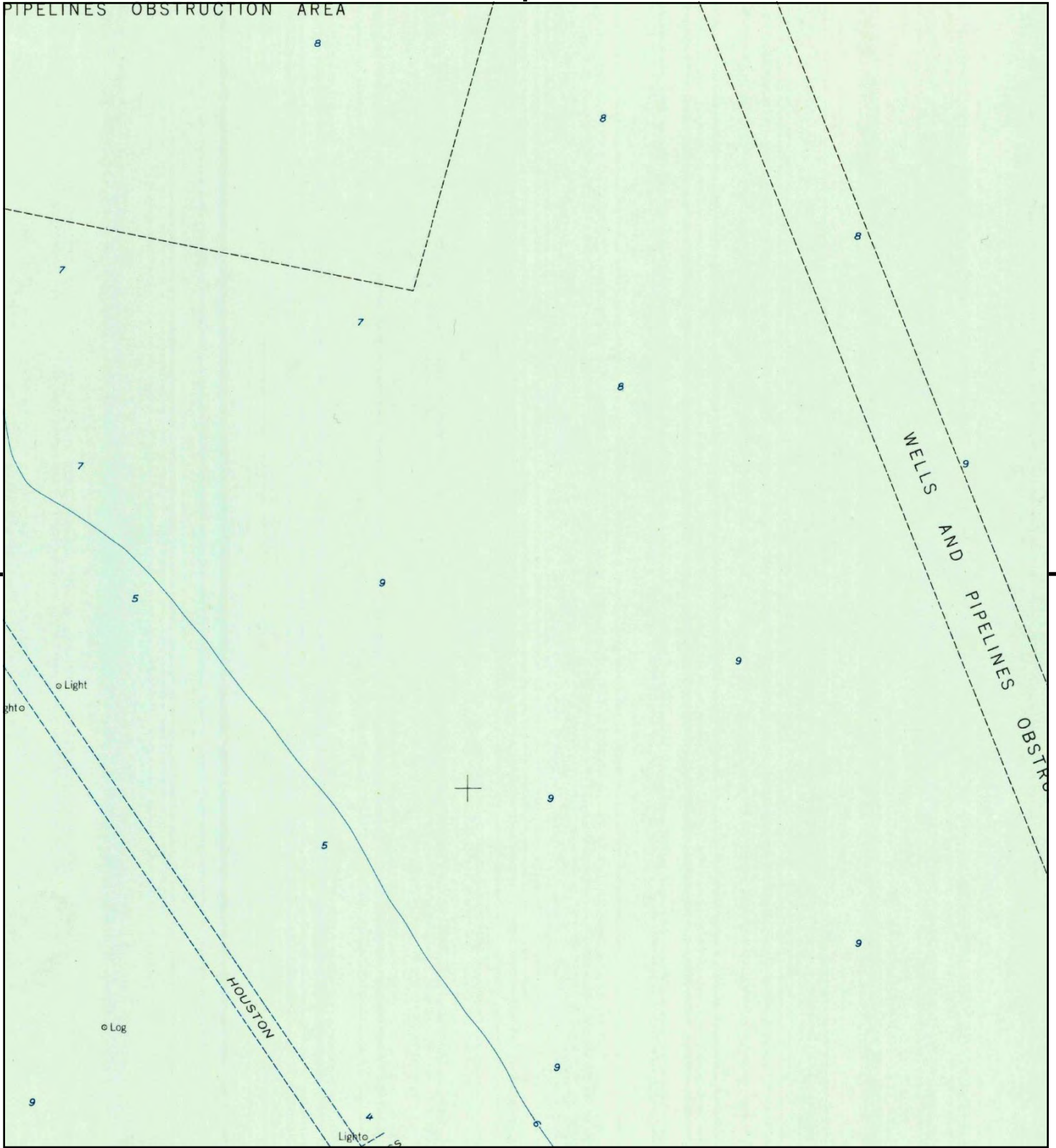
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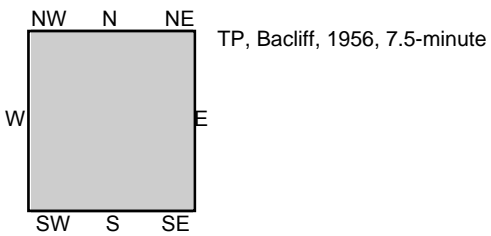
TP, Bacliff, 1956, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC



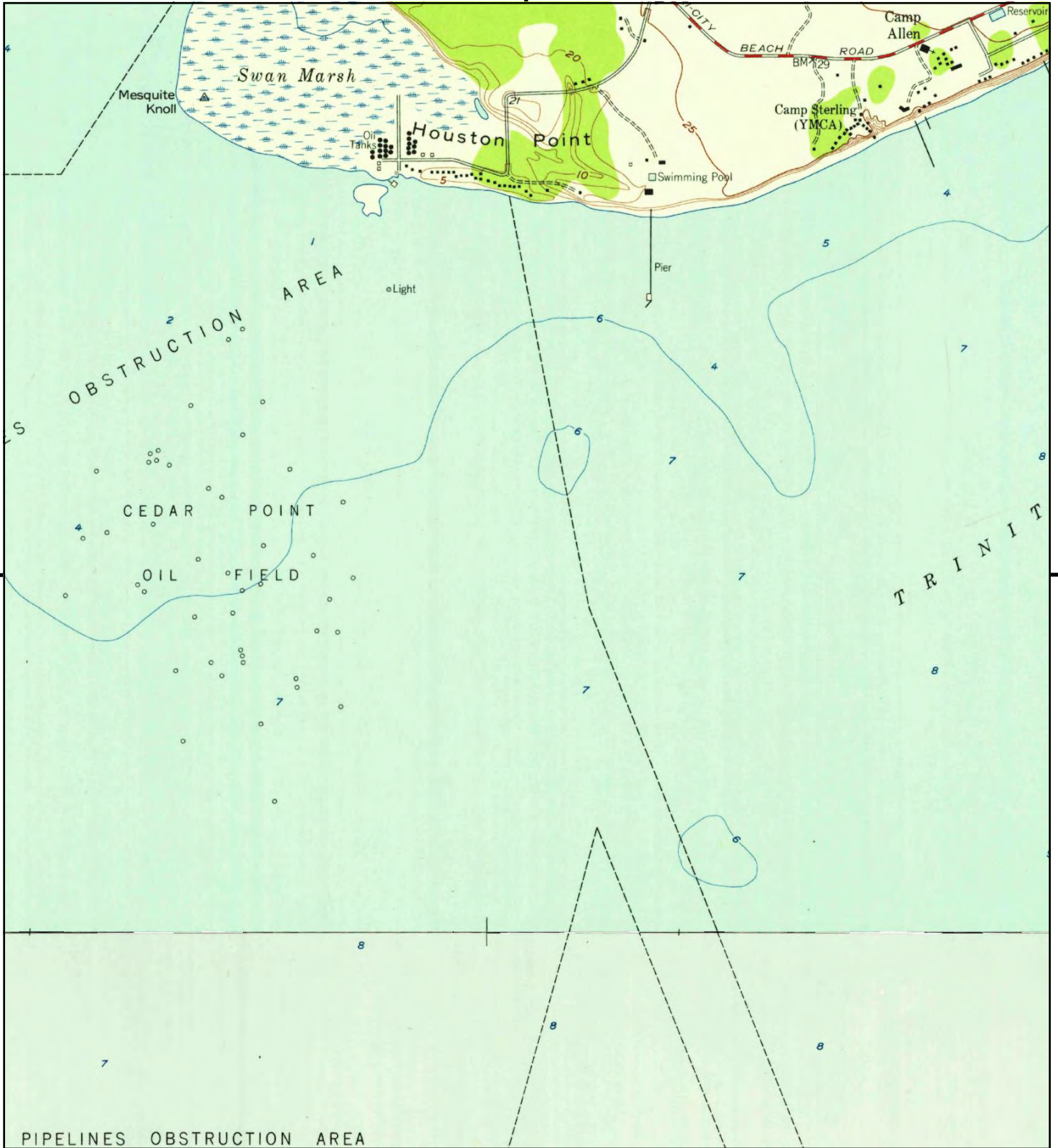


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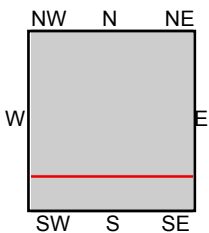


SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





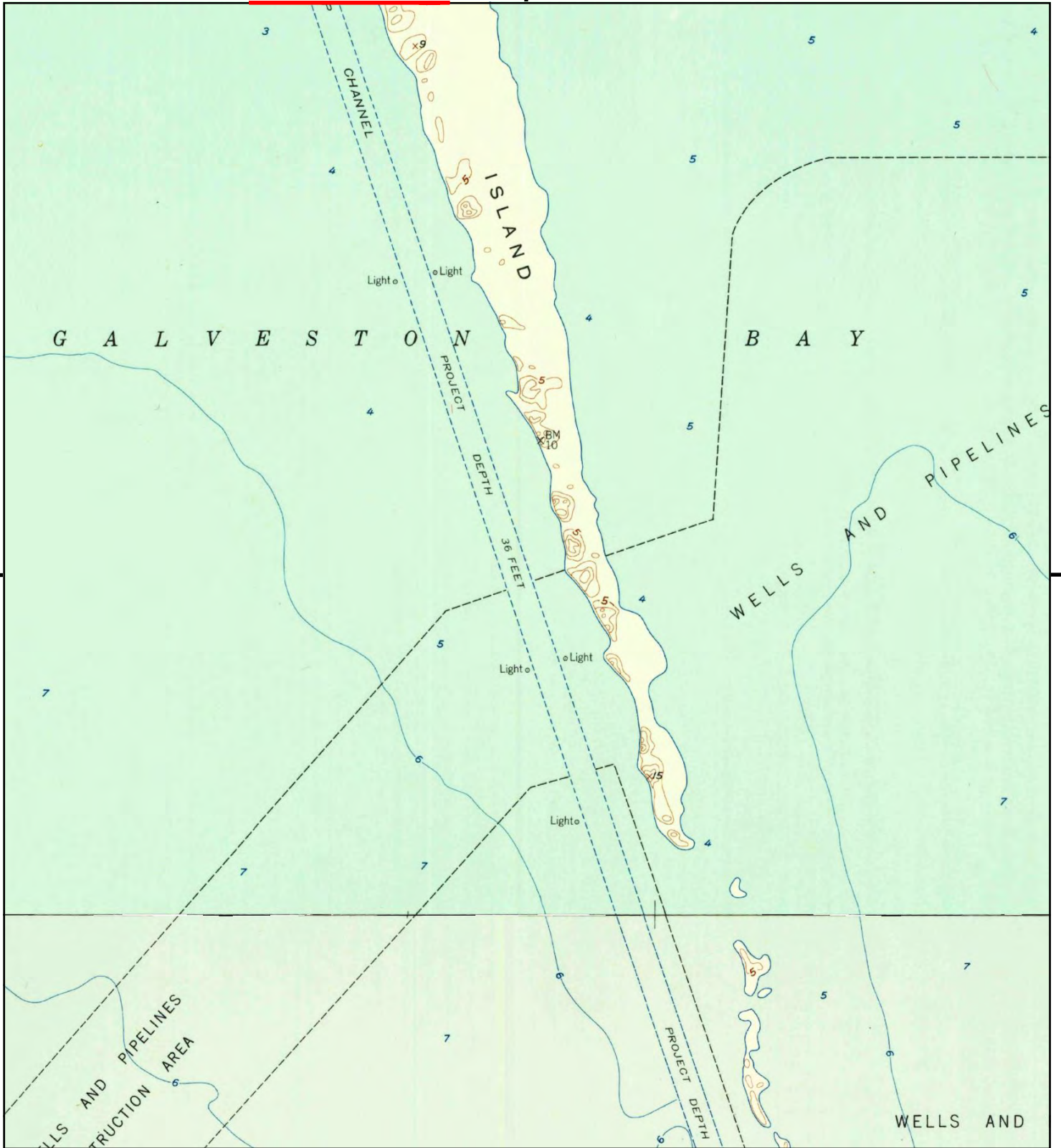
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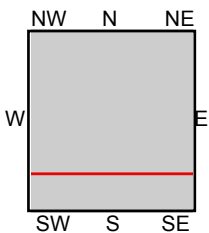
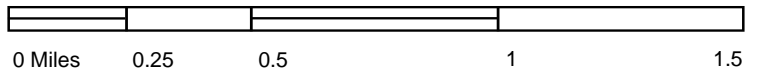
TP, Morgan Point, 1956, 7.5-minute
S, Bacliff, 1956, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
Baytown, TX 77523
CLIENT: Anchor QEA, LLC





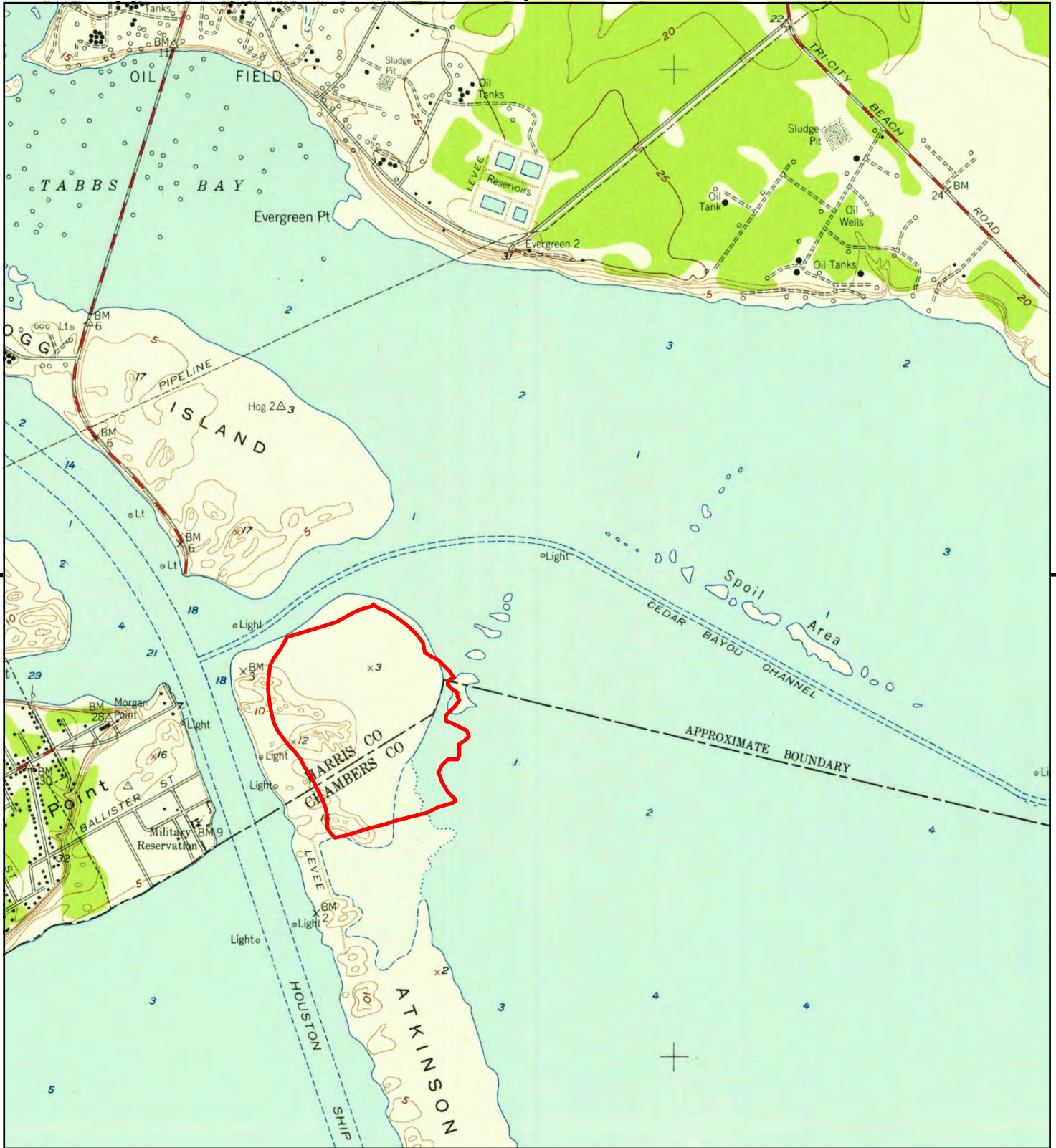
This report includes information from the following map sheet(s).



TP, Morgan Point, 1956, 7.5-minute
S, Bacliff, 1956, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
Baytown, TX 77523
CLIENT: Anchor QEA, LLC





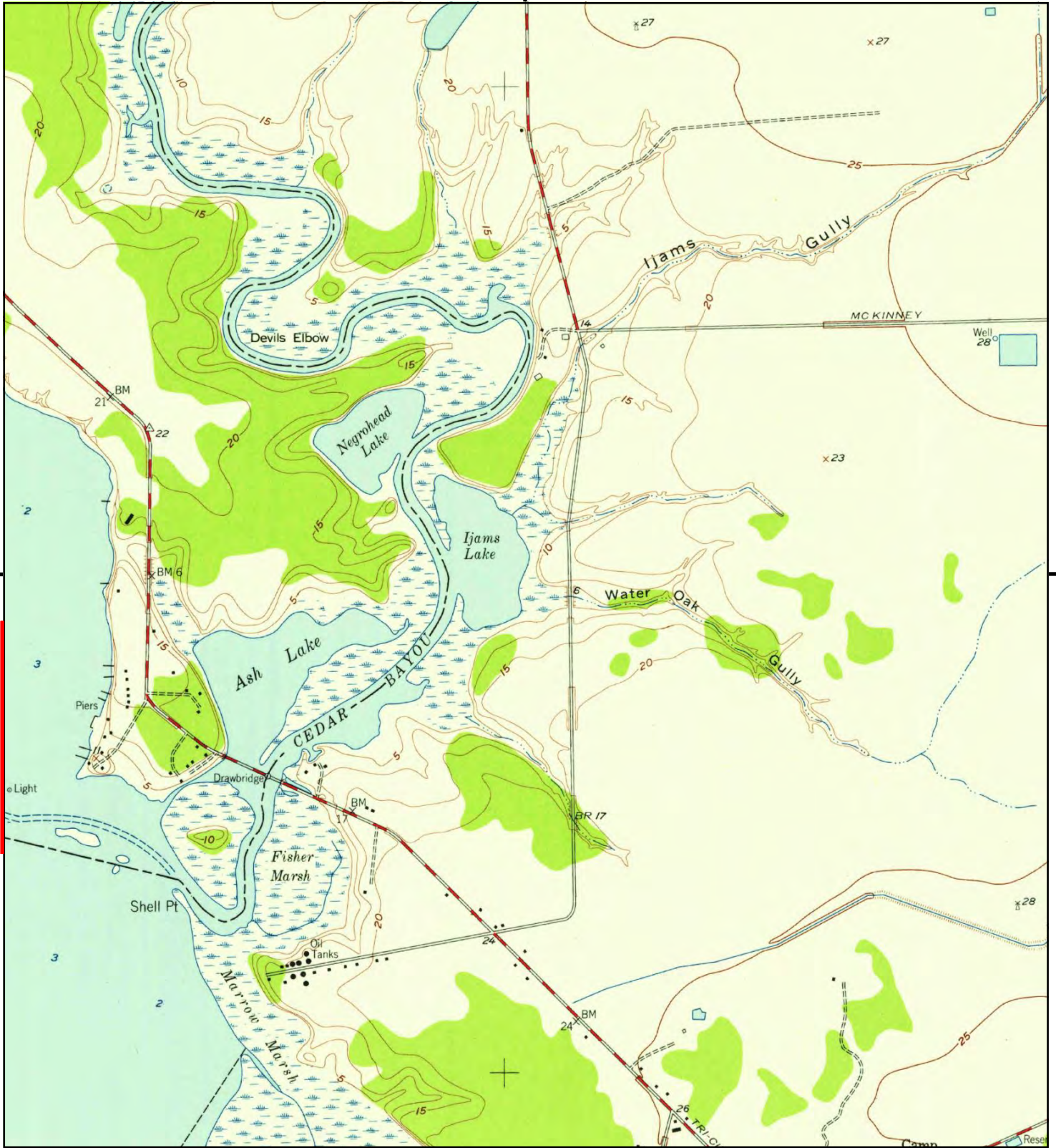
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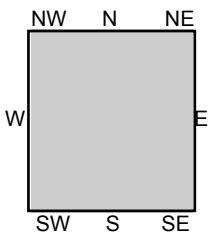
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SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
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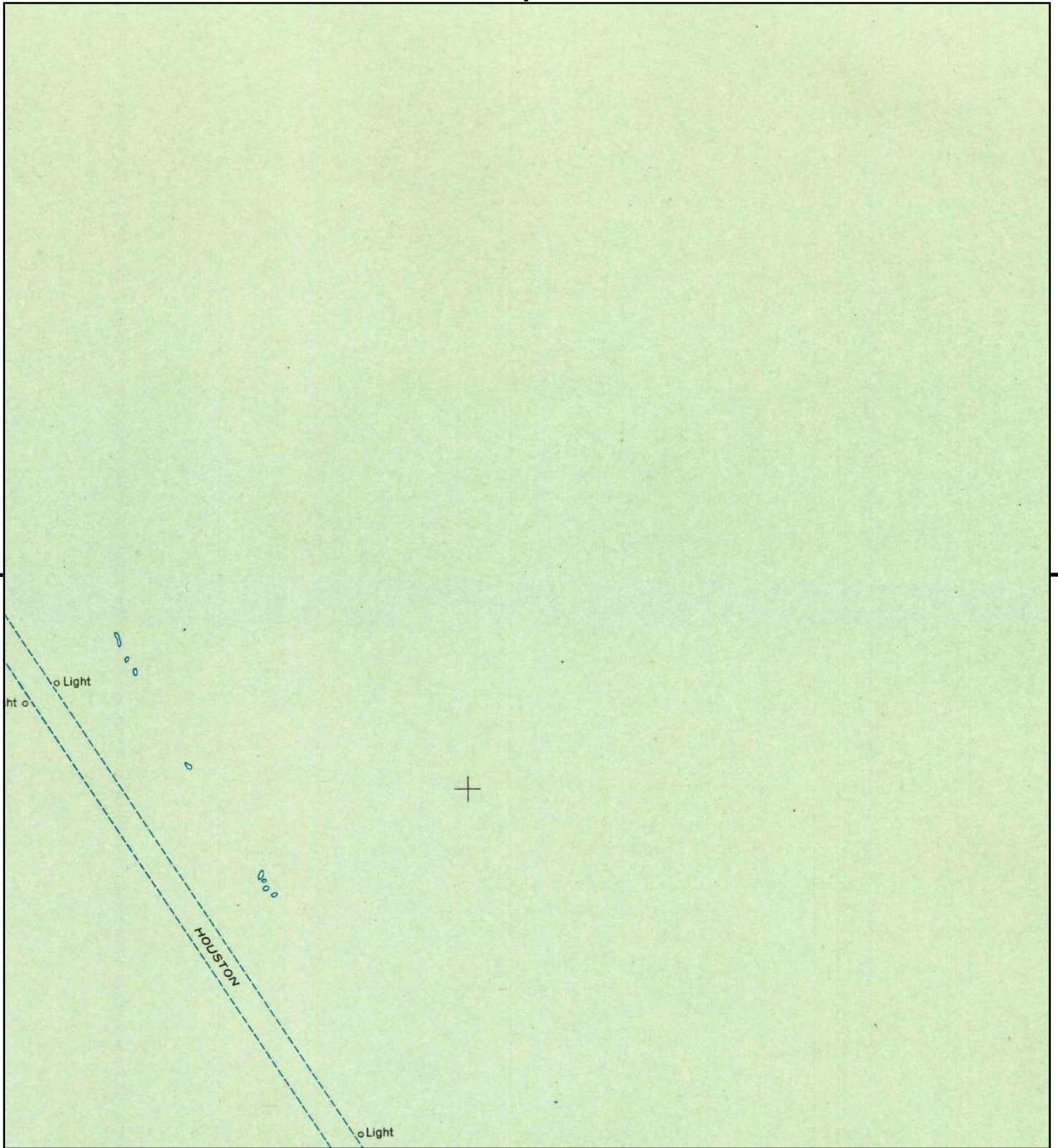
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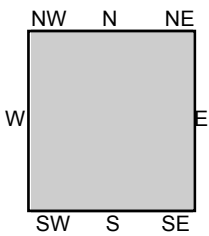
TP, Morgan Point, 1956, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
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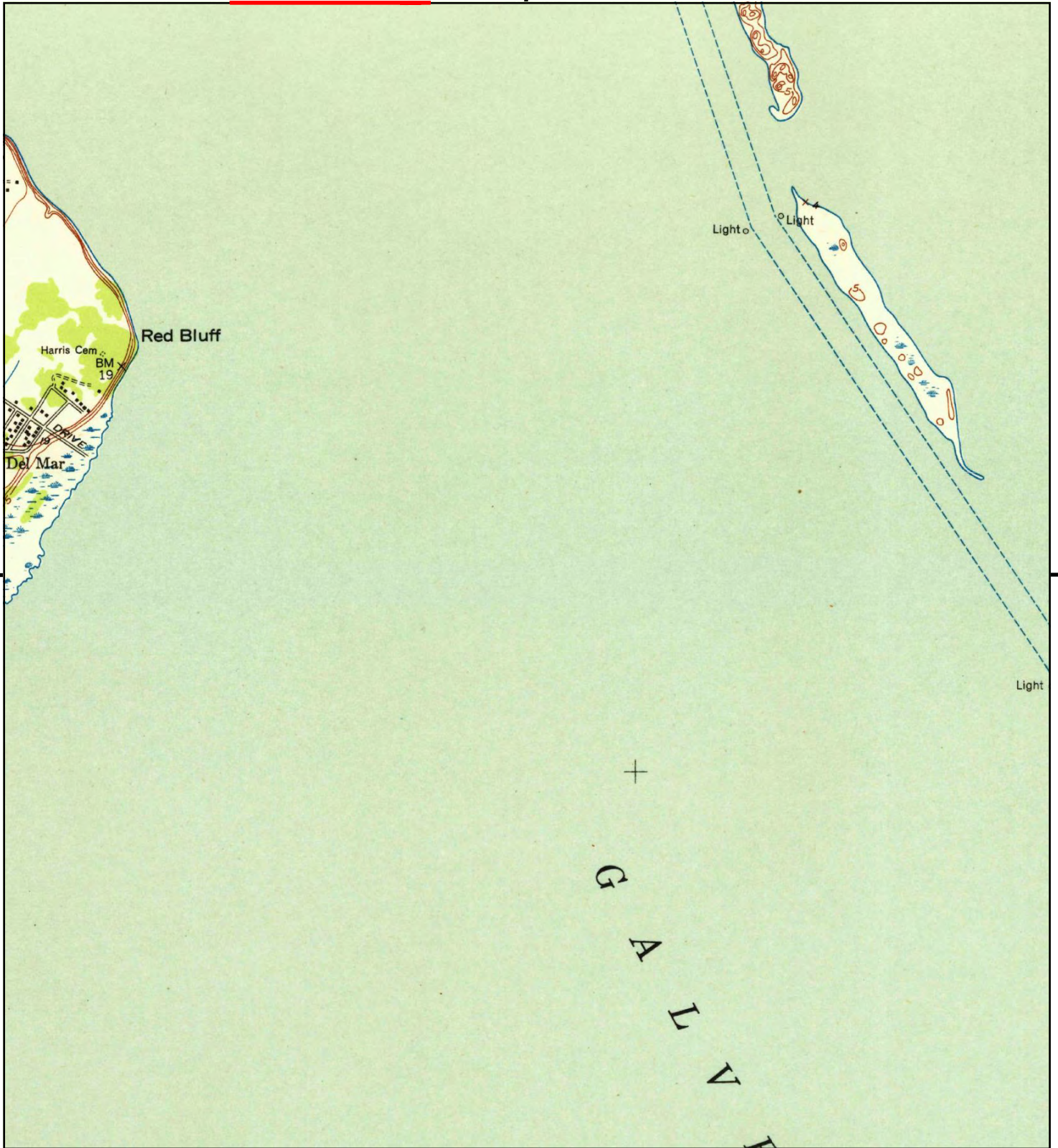
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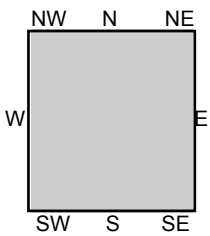
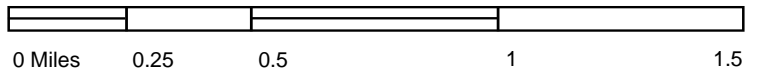
TP, Clifton By The Sea, 1952, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
Baytown, TX 77523
CLIENT: Anchor QEA, LLC





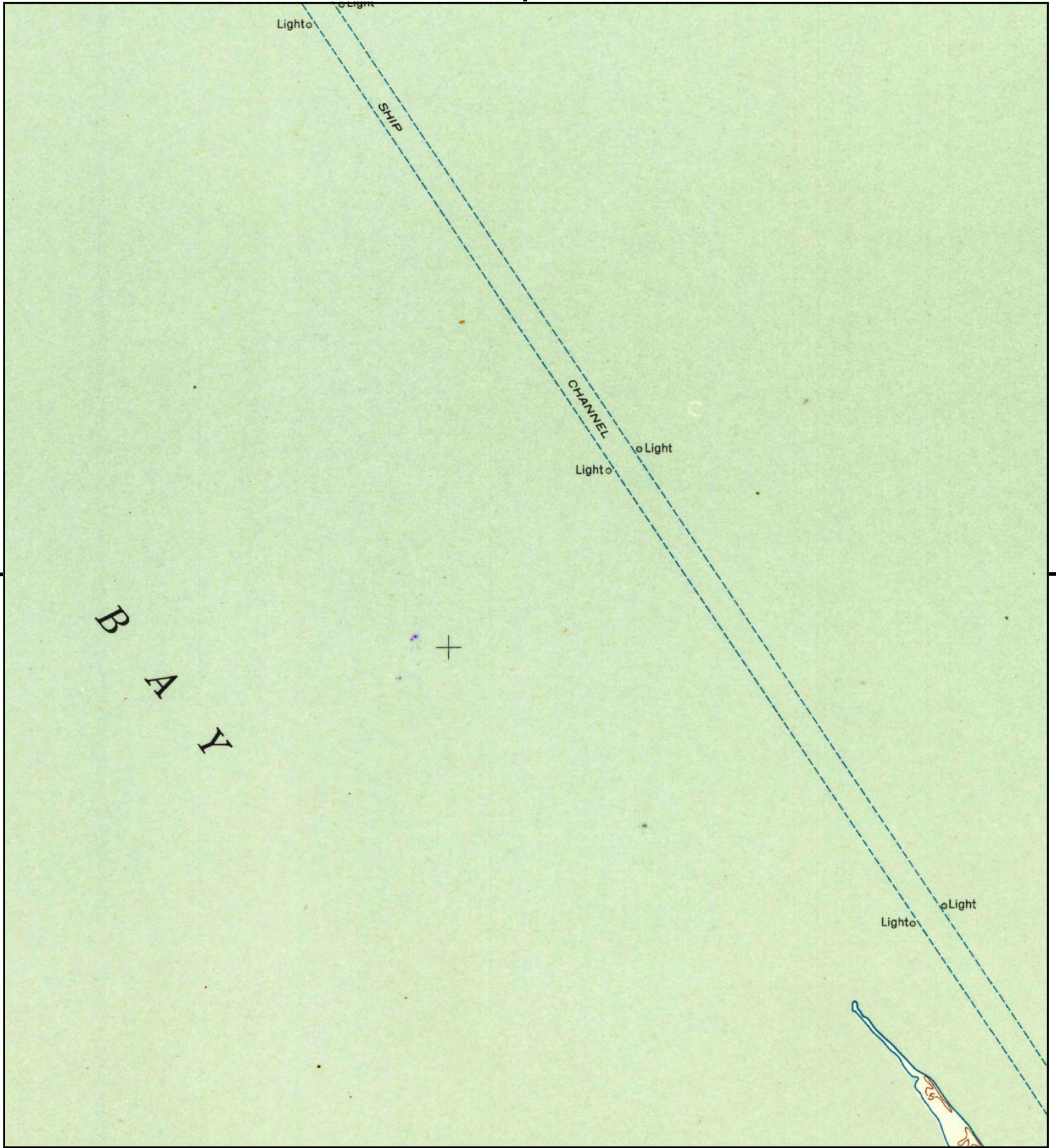
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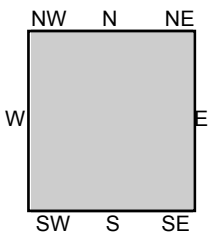
TP, Clifton By The Sea, 1952, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





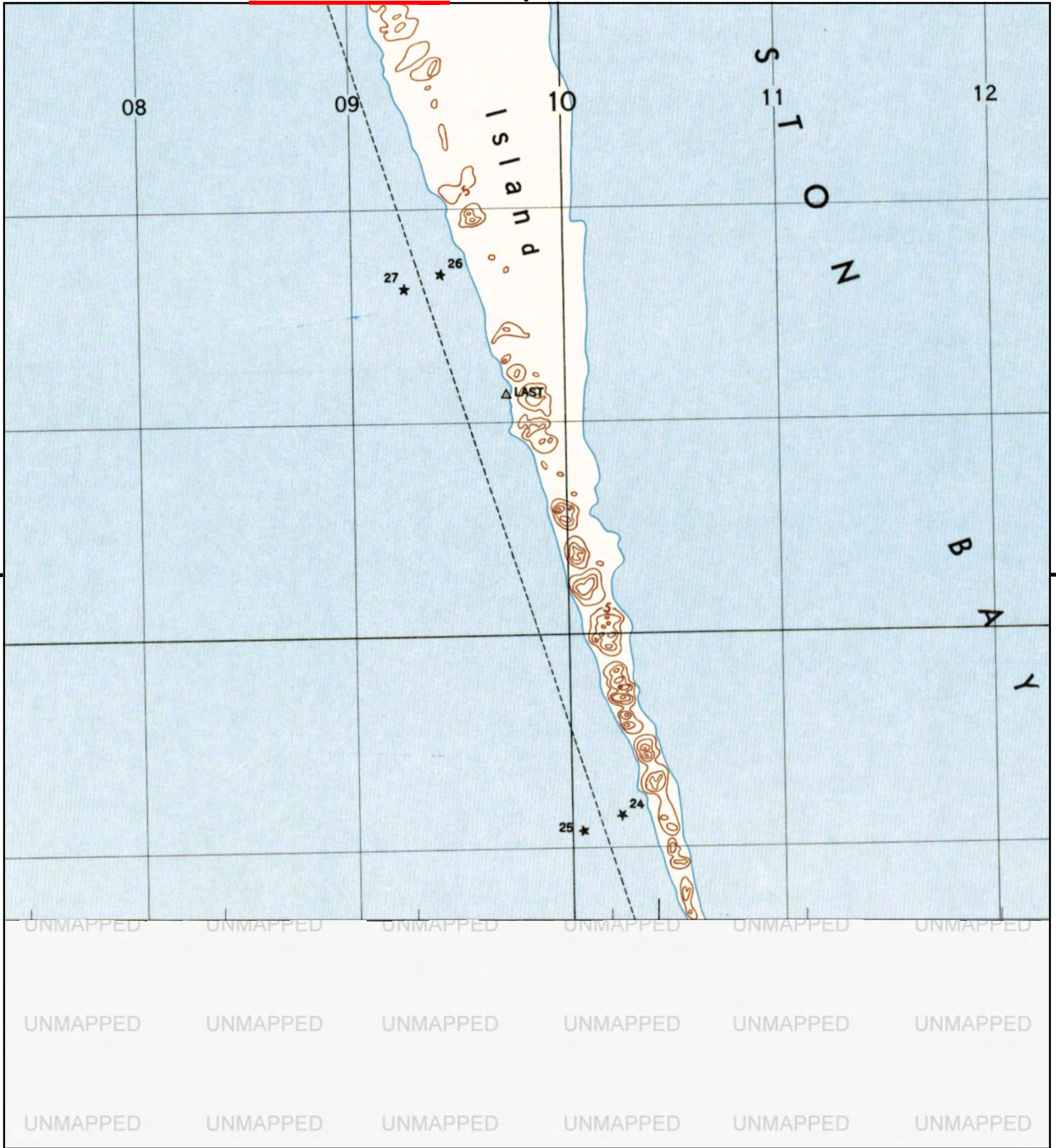
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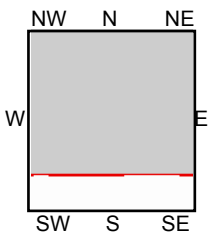
TP, Clifton By The Sea, 1952, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
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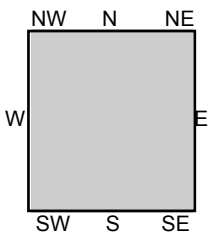
TP, MORGANS POINT, 1949, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





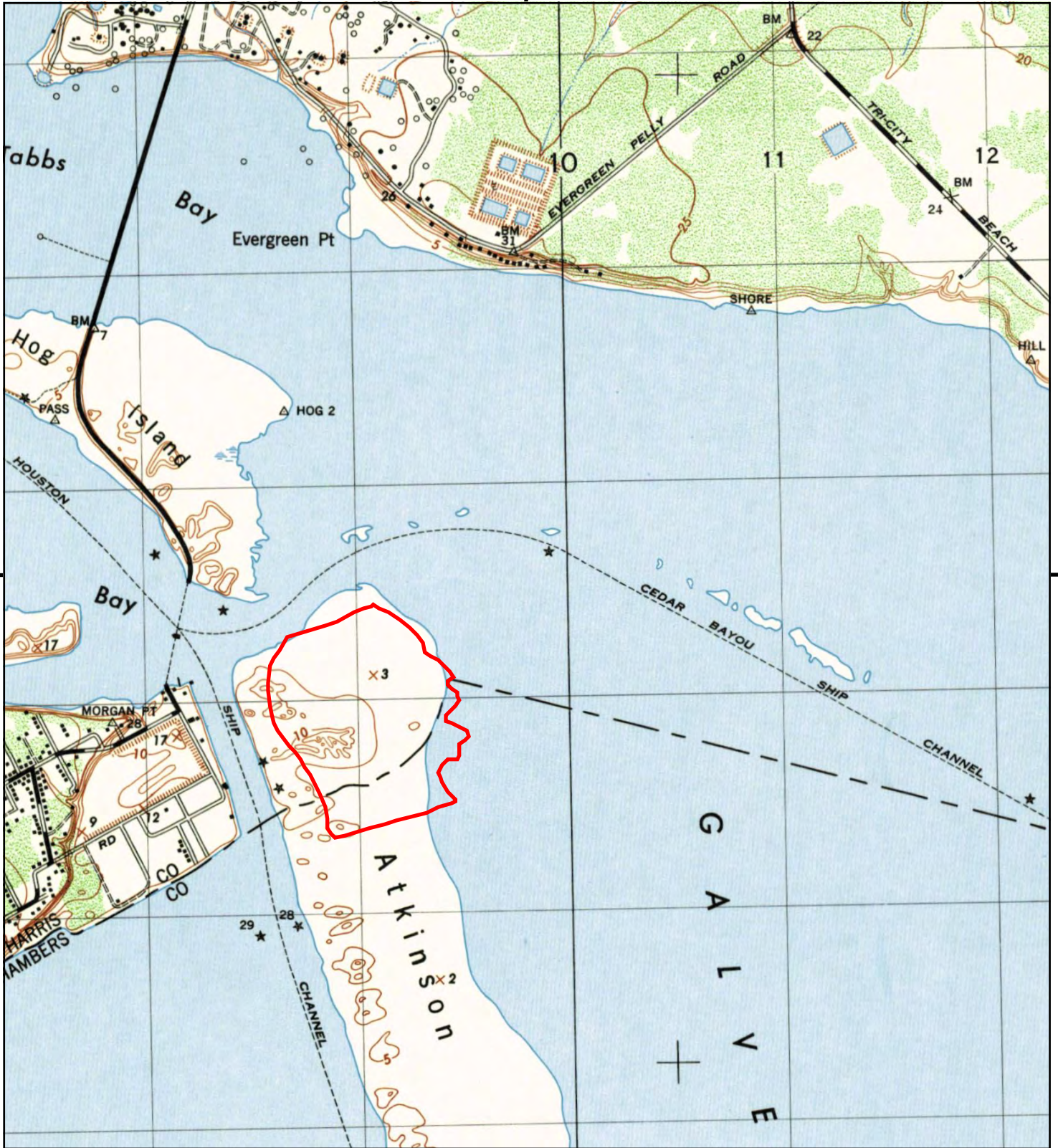
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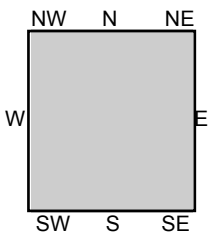
TP, MORGANS POINT, 1949, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





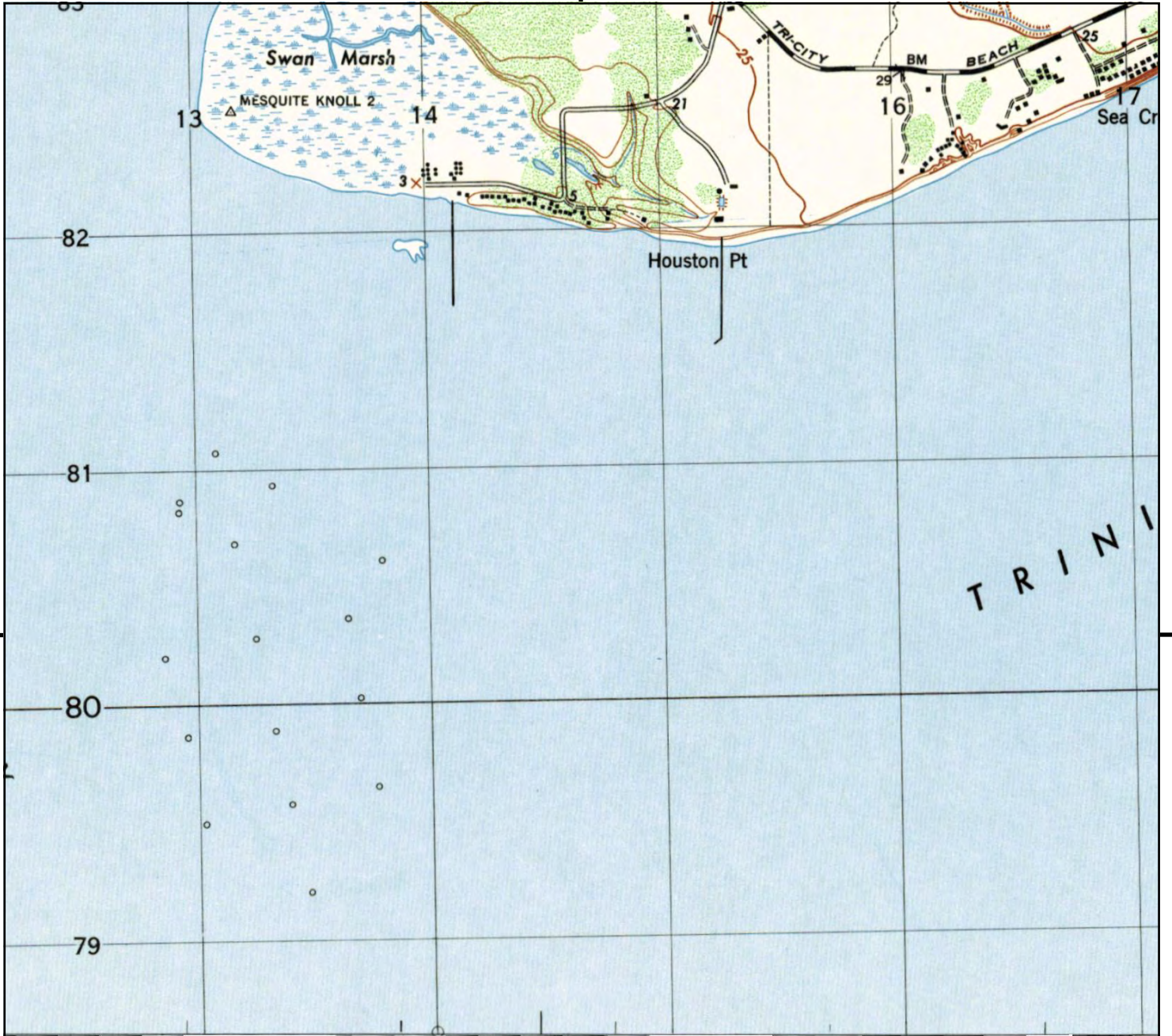
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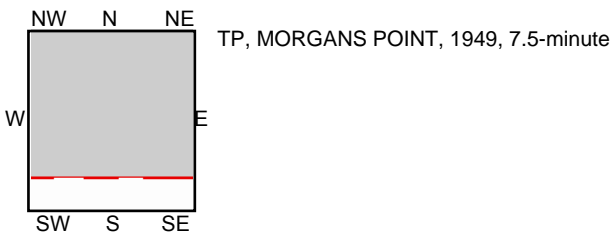
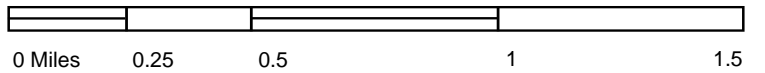
TP, MORGANS POINT, 1949, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
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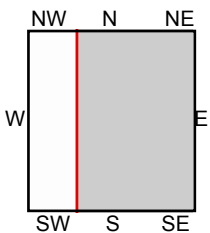


SITE NAME: CPIND Deepwater Channel
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 CLIENT: Anchor QEA, LLC





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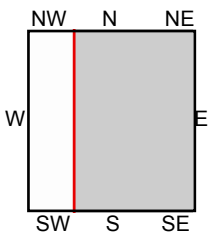
TP, Smith Point, 1943, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
Baytown, TX 77523
CLIENT: Anchor QEA, LLC





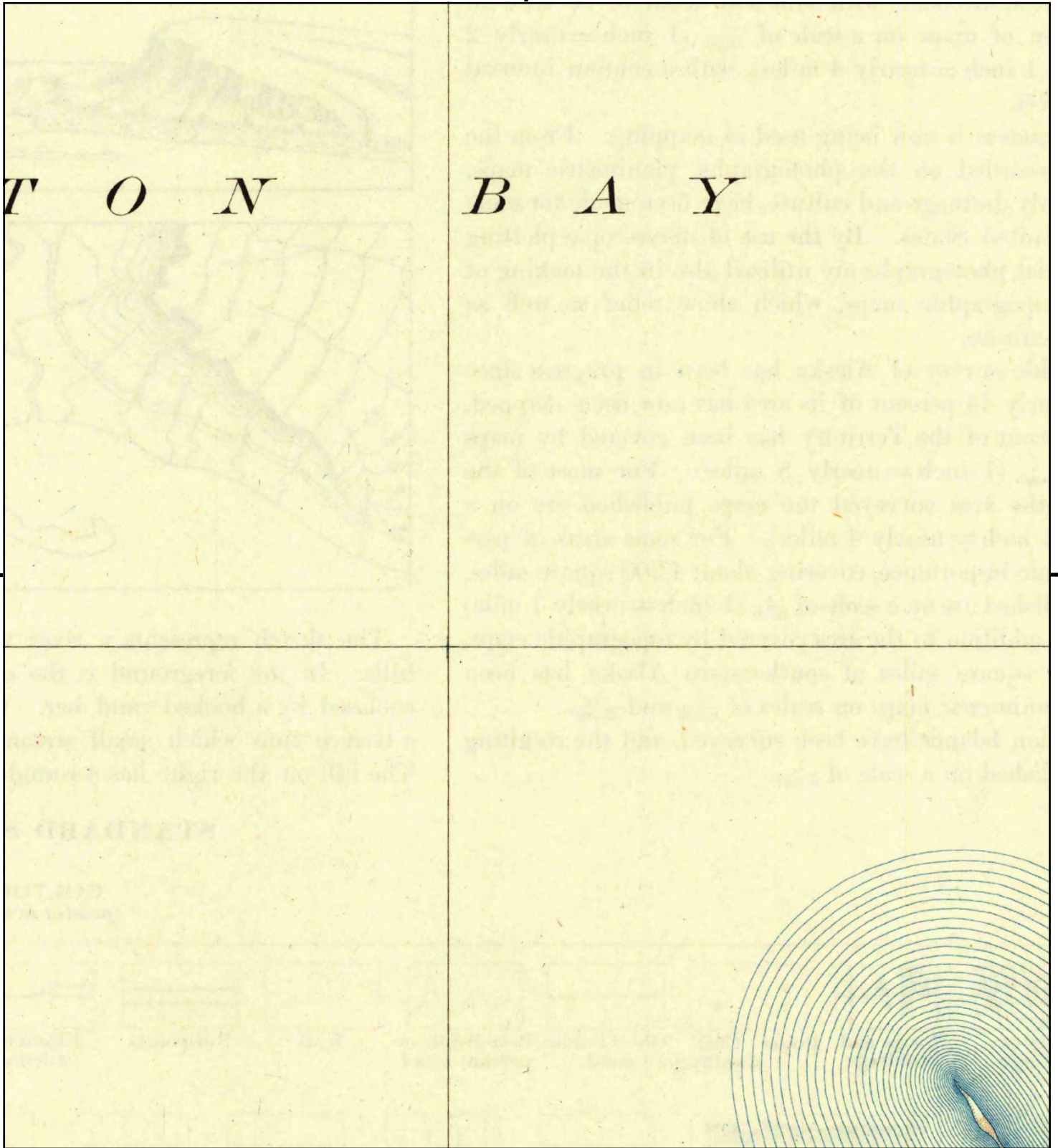
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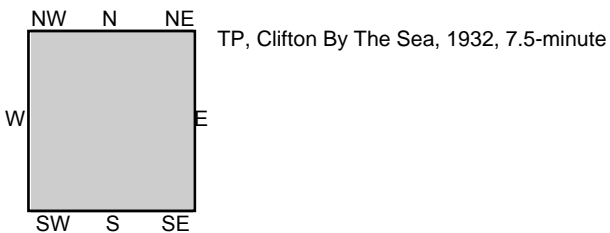
TP, Smith Point, 1943, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC



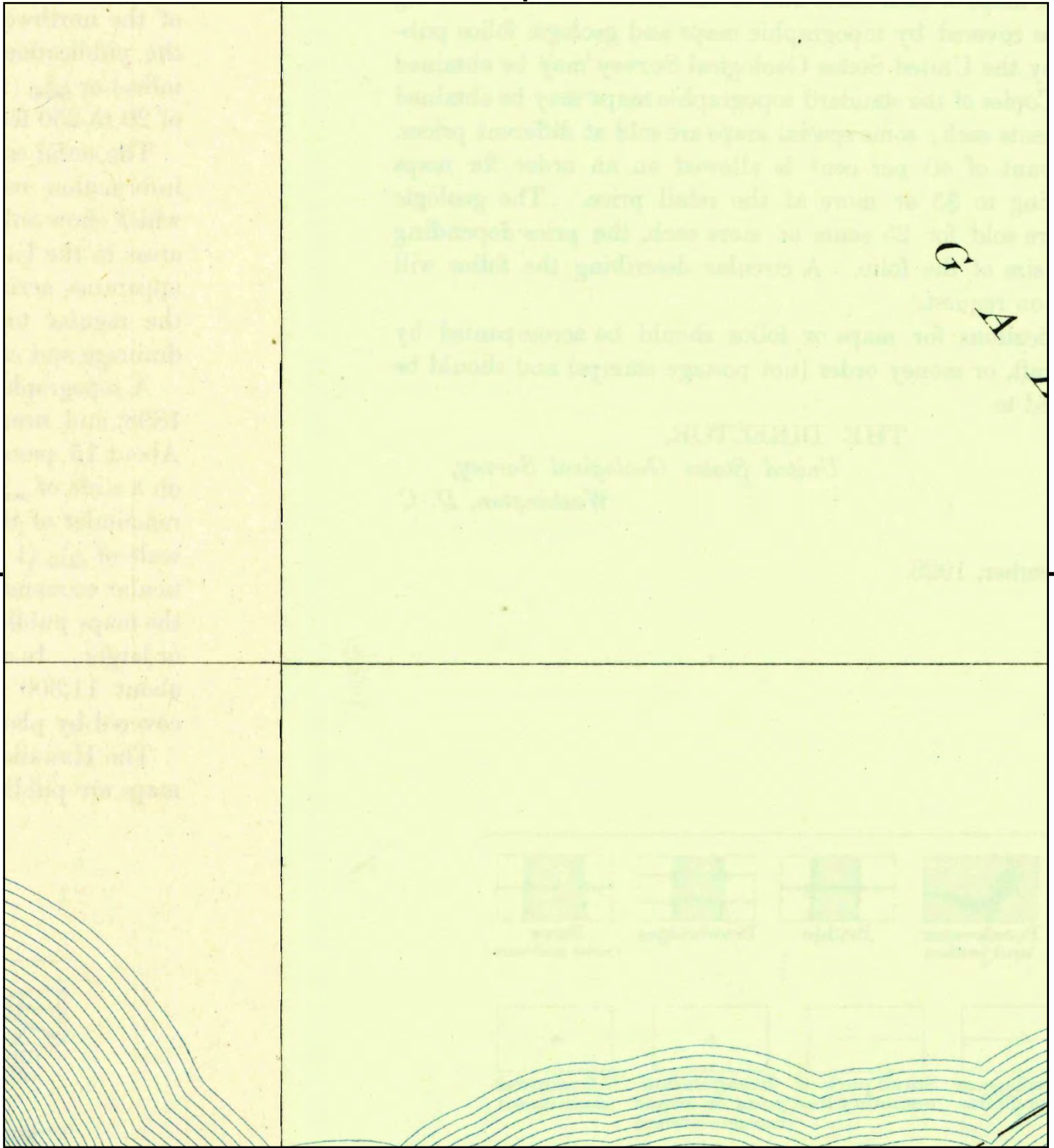


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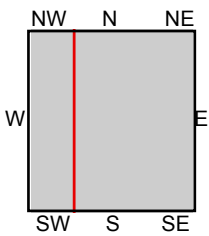
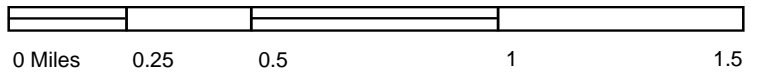


SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





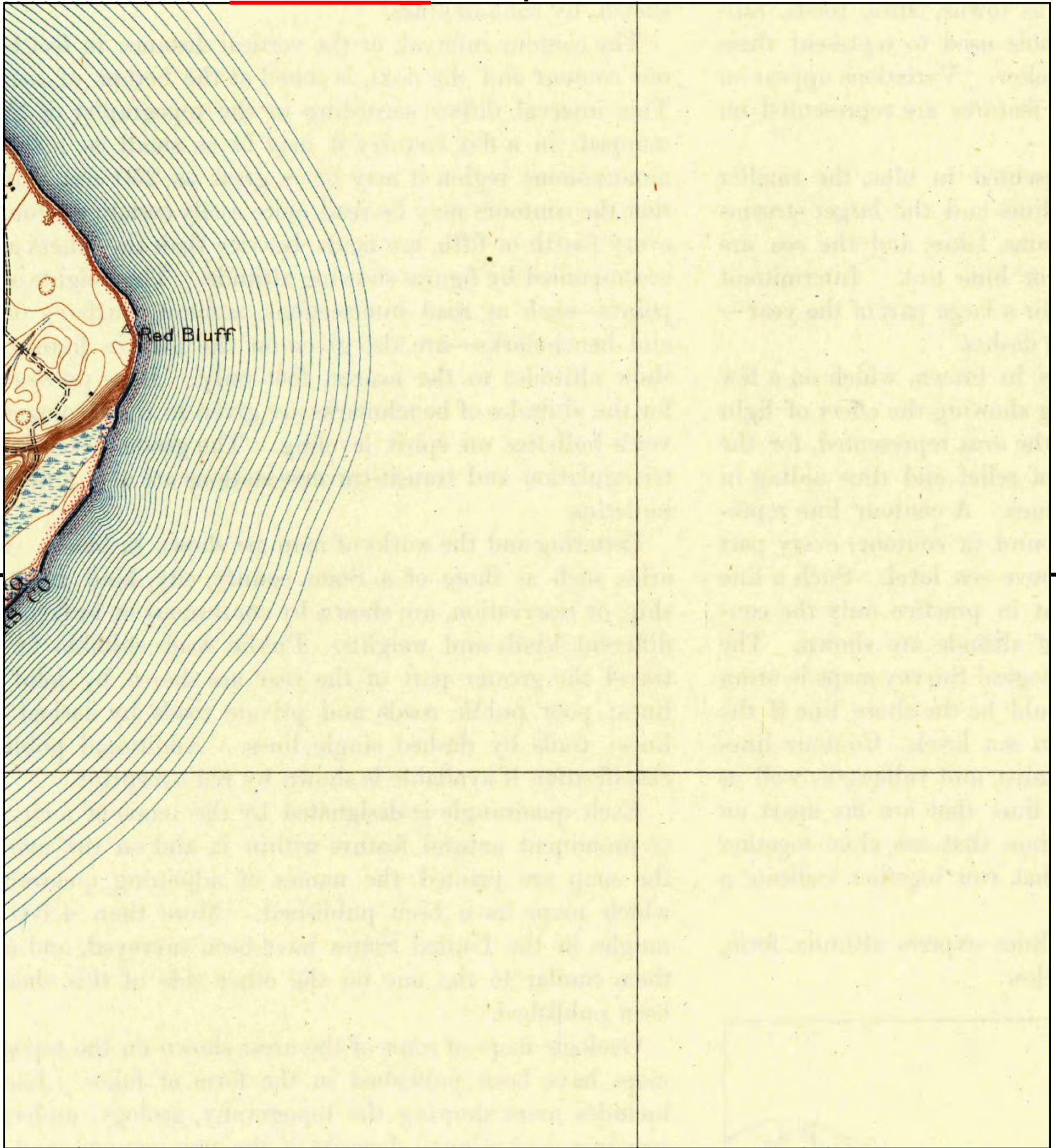
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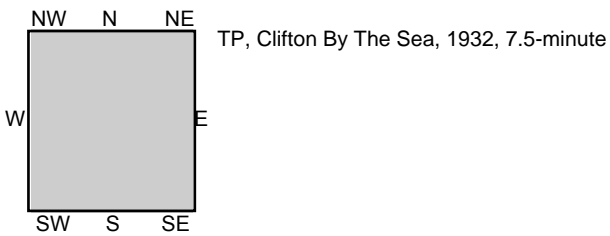
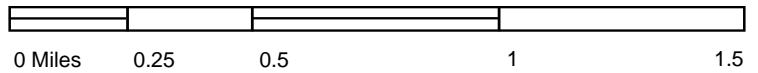
TP, Smith Point, 1933, 7.5-minute
 W, Clifton By The Sea, 1932, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
 Baytown, TX 77523
CLIENT: Anchor QEA, LLC





This report includes information from the following map sheet(s).

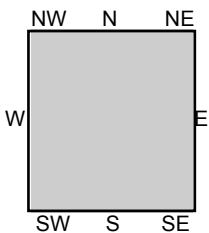
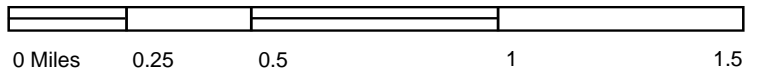


SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
 Baytown, TX 77523
CLIENT: Anchor QEA, LLC





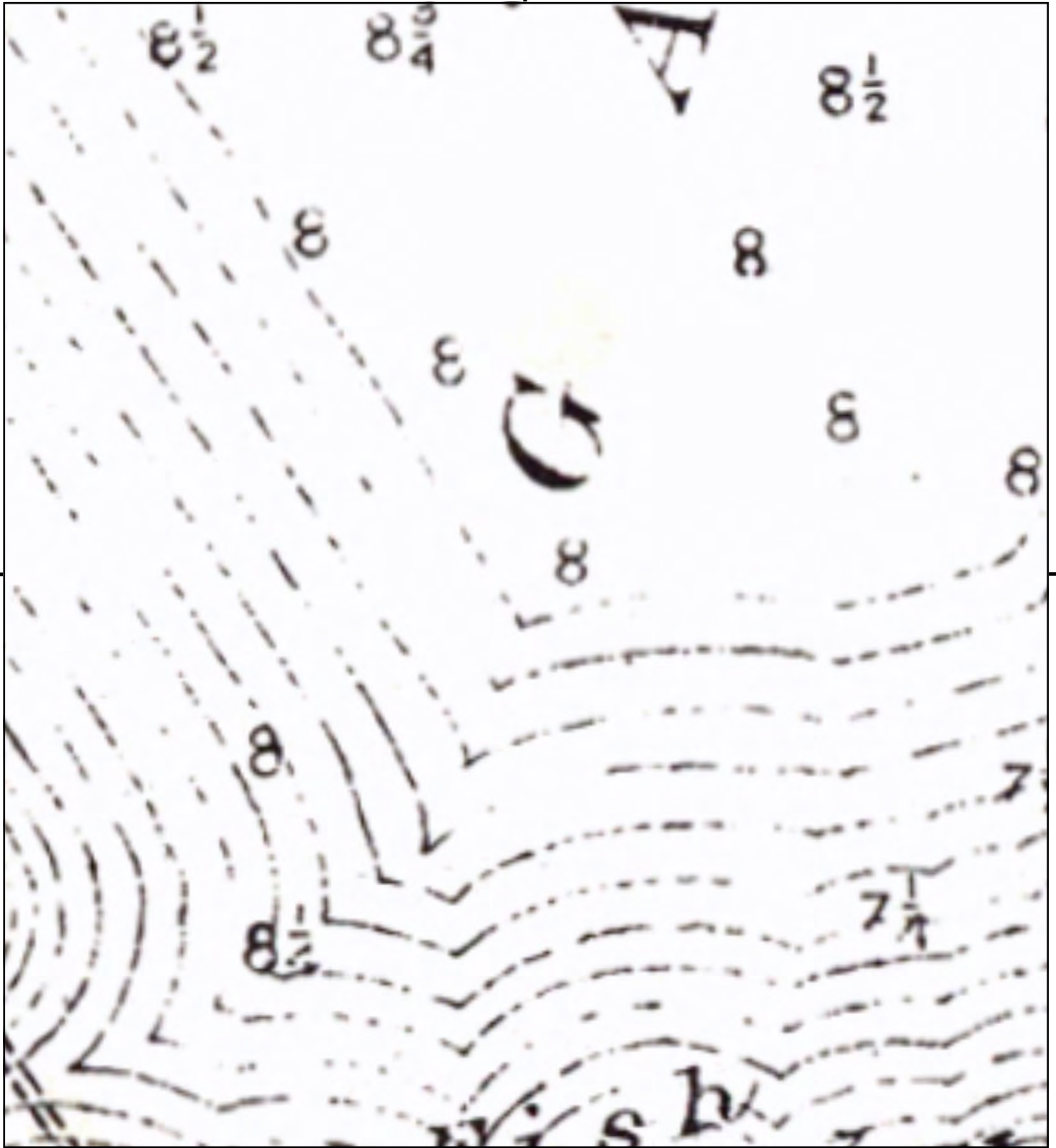
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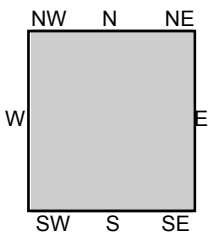
TP, ANAHUAC, 1928, 30-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
Baytown, TX 77523
CLIENT: Anchor QEA, LLC





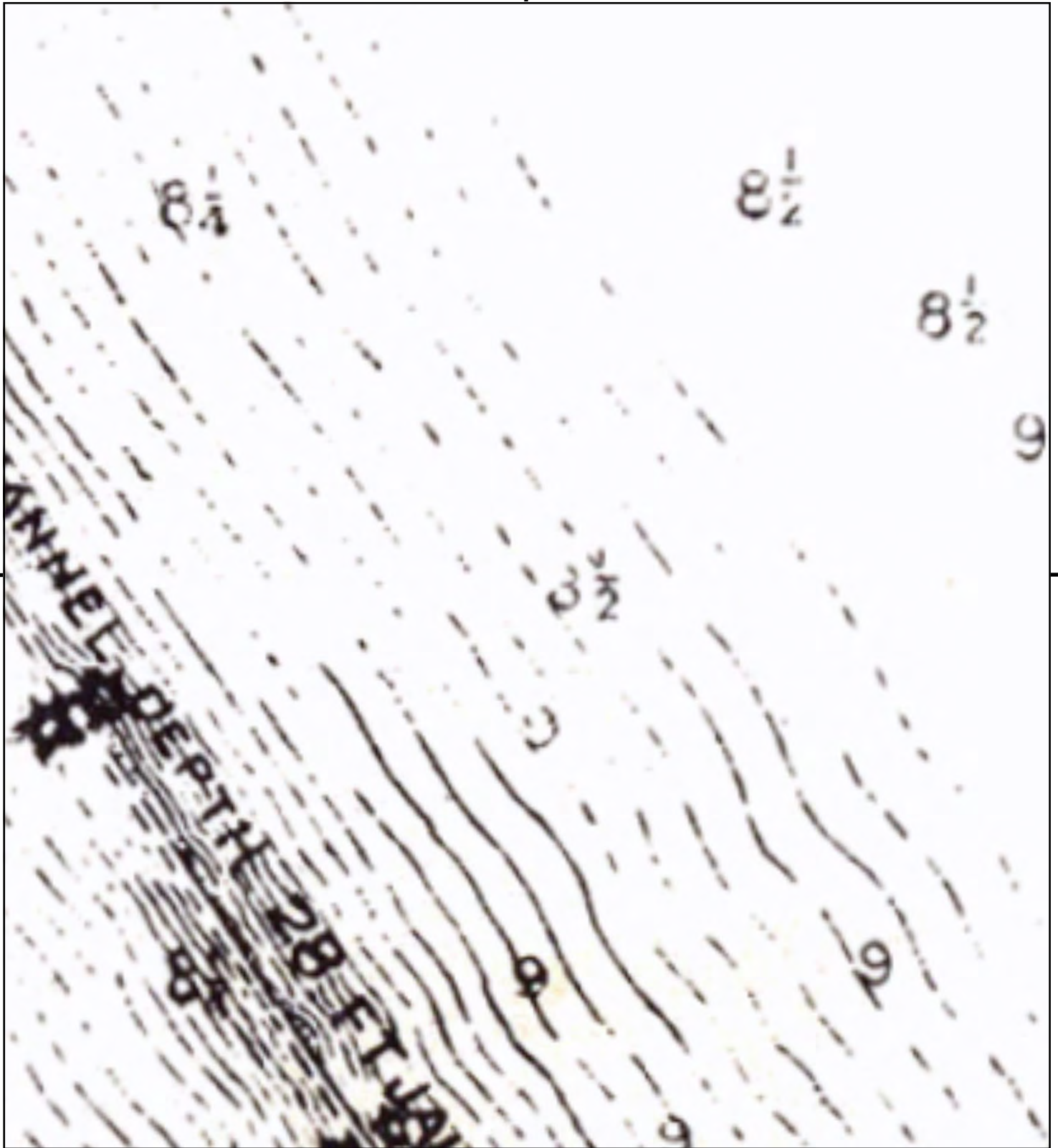
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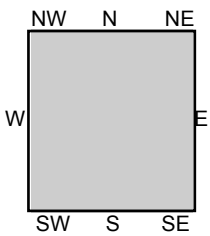
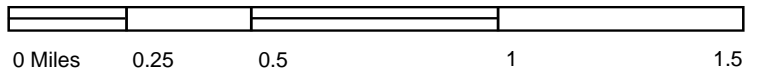
TP, ANAHUAC, 1928, 30-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
Baytown, TX 77523
CLIENT: Anchor QEA, LLC





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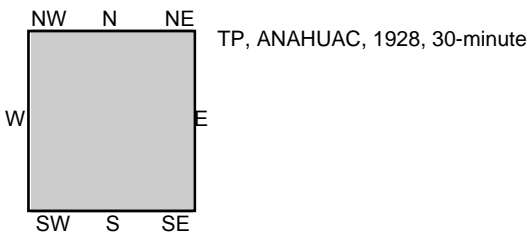
TP, ANAHUAC, 1928, 30-minute

SITE NAME: CPIND Deepwater Channel
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Baytown, TX 77523
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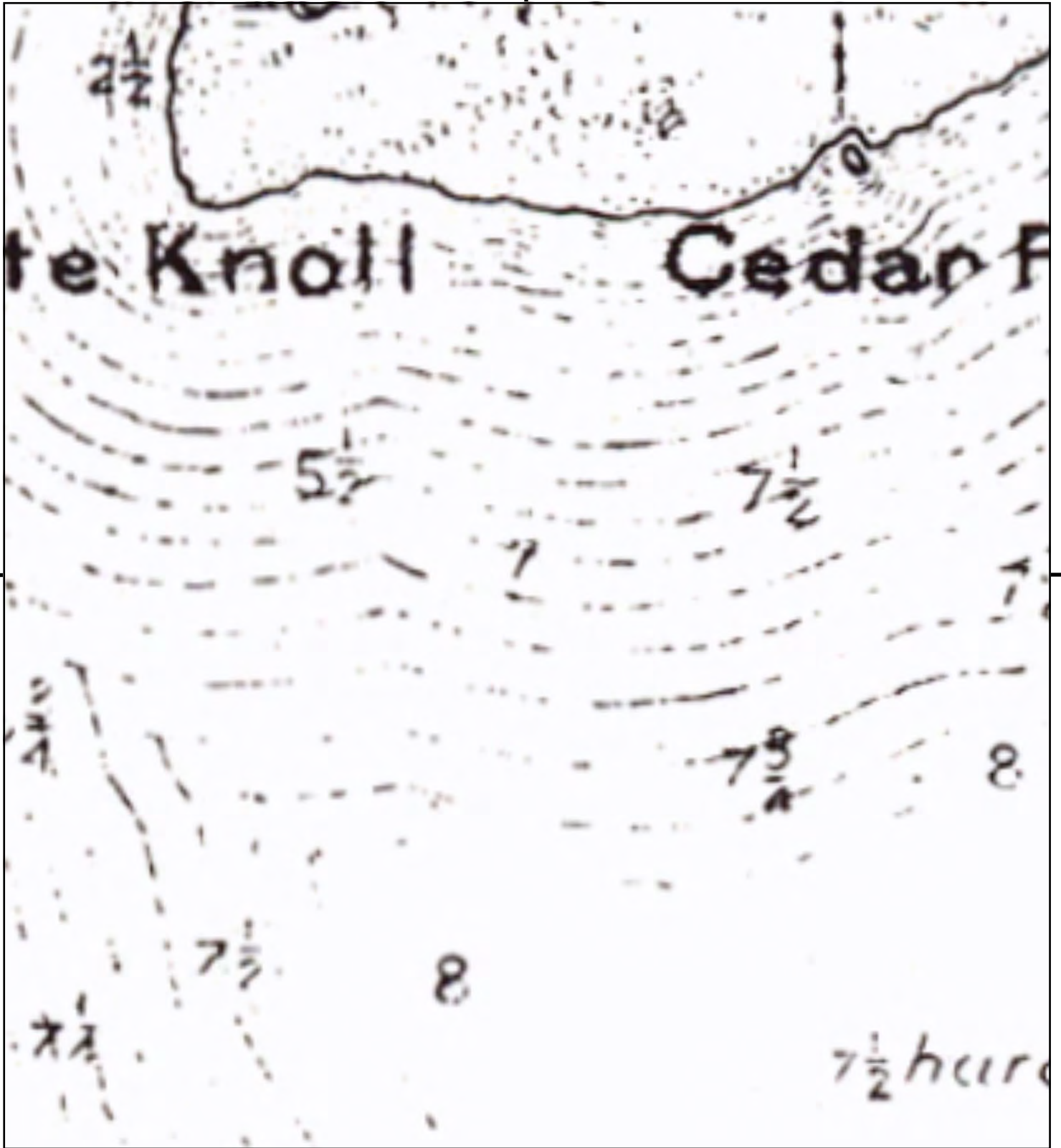


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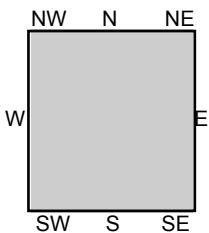
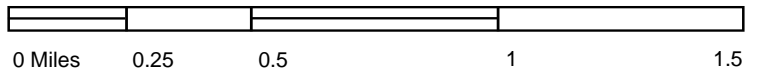


SITE NAME: CPIND Deepwater Channel
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CLIENT: Anchor QEA, LLC





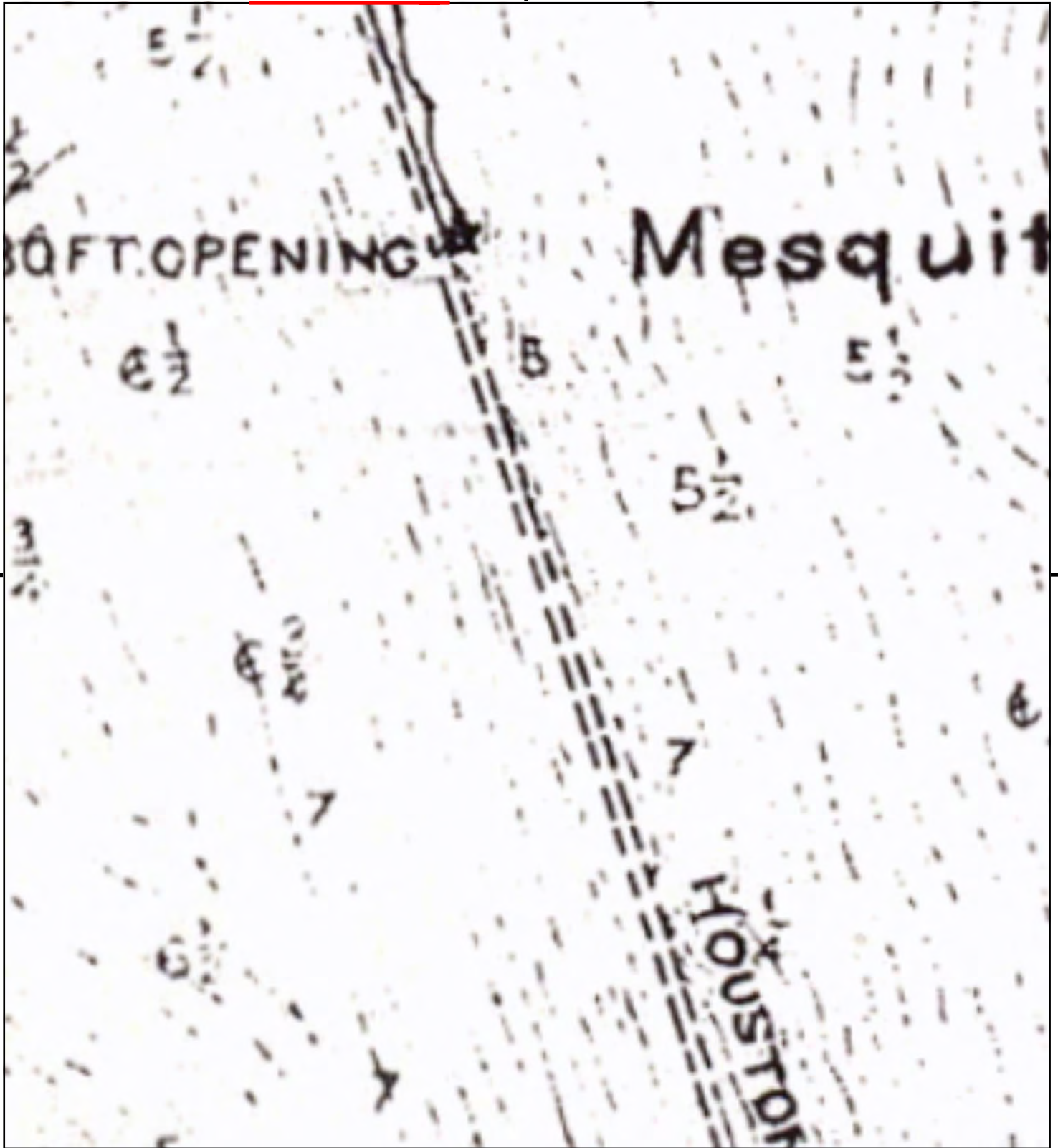
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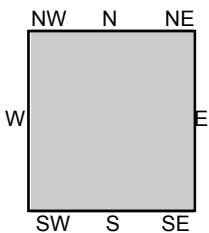
TP, ANAHUAC, 1928, 30-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
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This report includes information from the following map sheet(s).



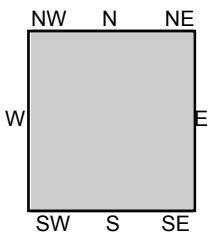
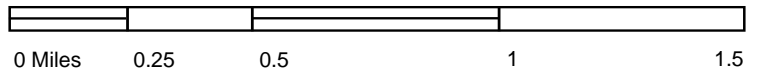
TP, ANAHUAC, 1928, 30-minute

SITE NAME: CPIND Deepwater Channel
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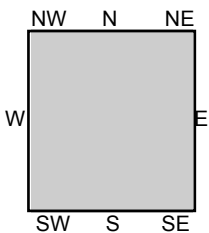
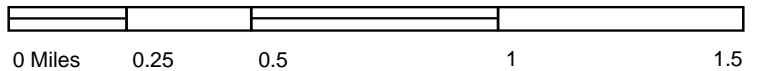
TP, ANAHUAC, 1928, 30-minute

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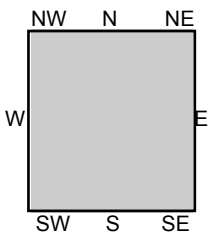
TP, ANAHUAC, 1928, 30-minute

SITE NAME: CPIND Deepwater Channel
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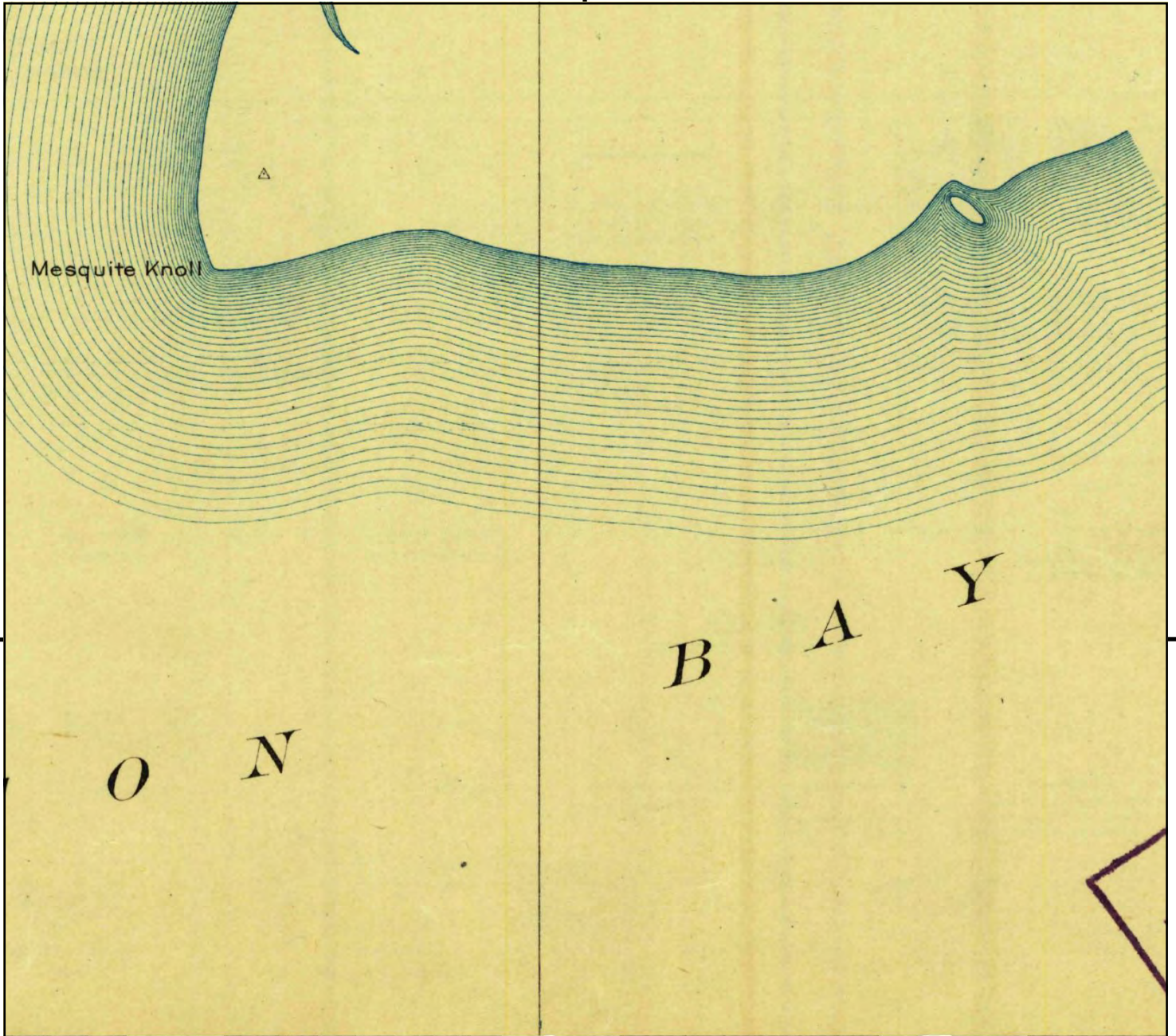
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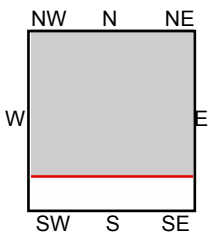
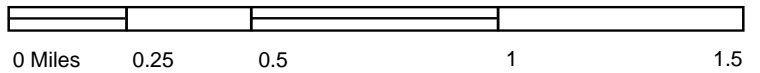
TP, ANAHUAC, 1928, 30-minute

SITE NAME: CPIND Deepwater Channel
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Baytown, TX 77523
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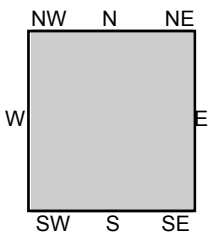
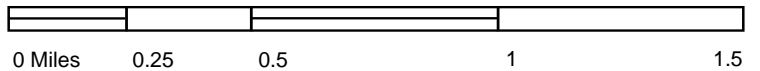
TP, Morgan Point, 1919, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





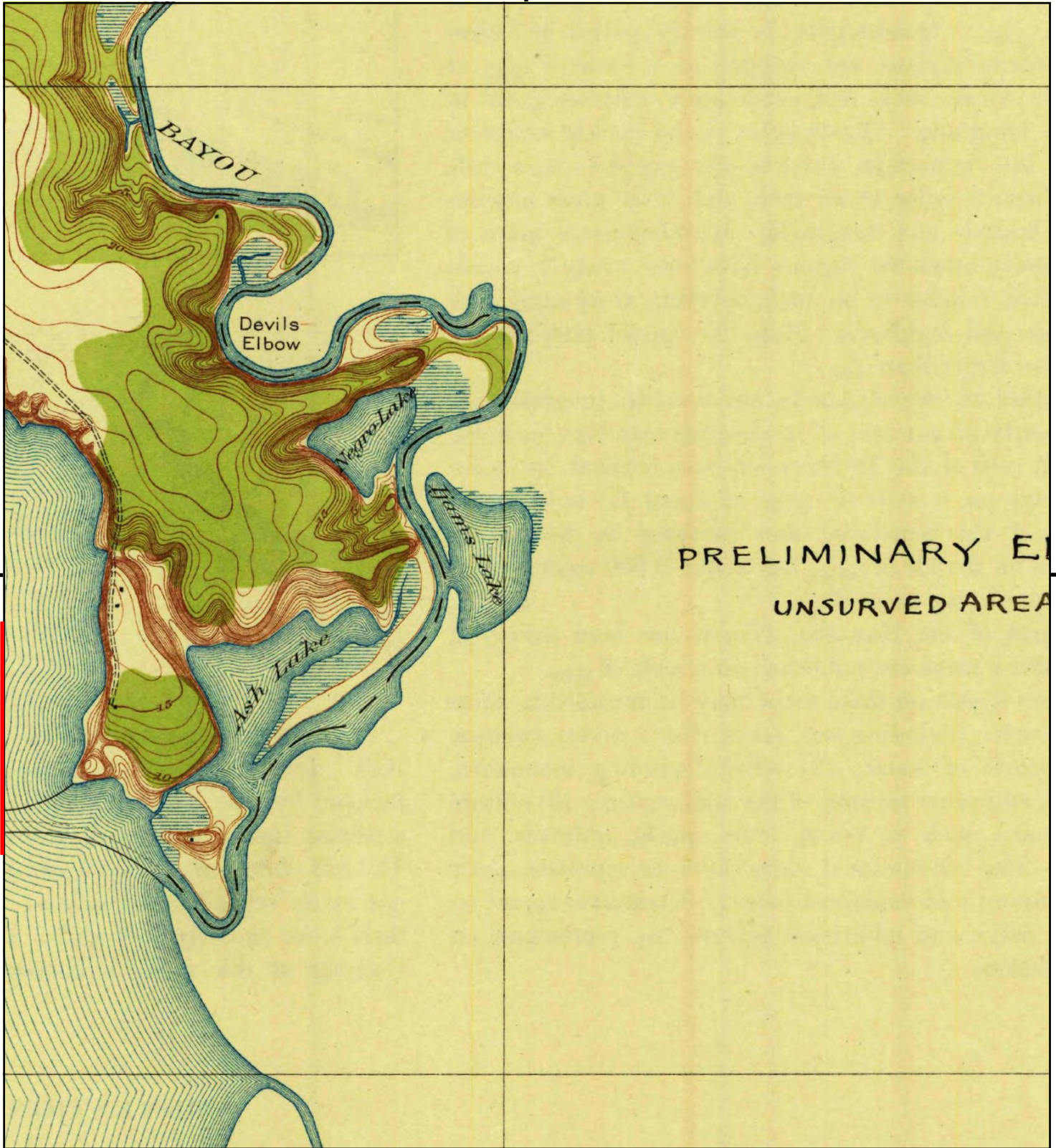
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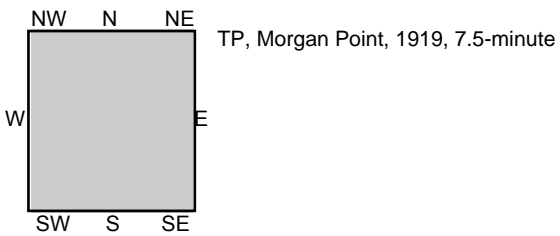
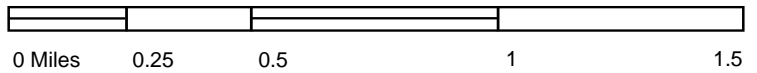
TP, Morgan Point, 1919, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC



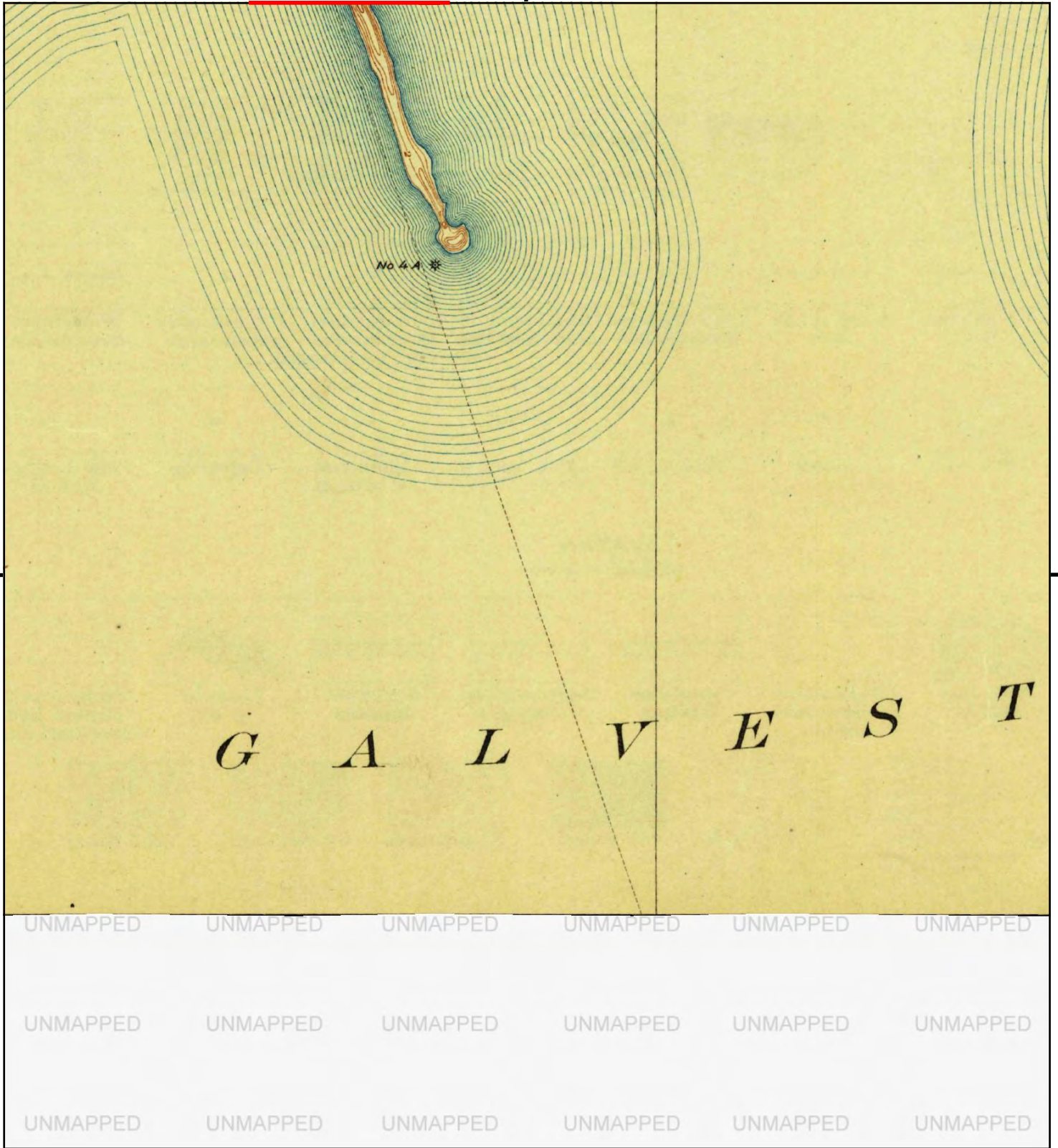


This report includes information from the following map sheet(s).

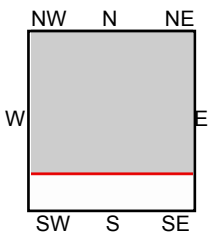


SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





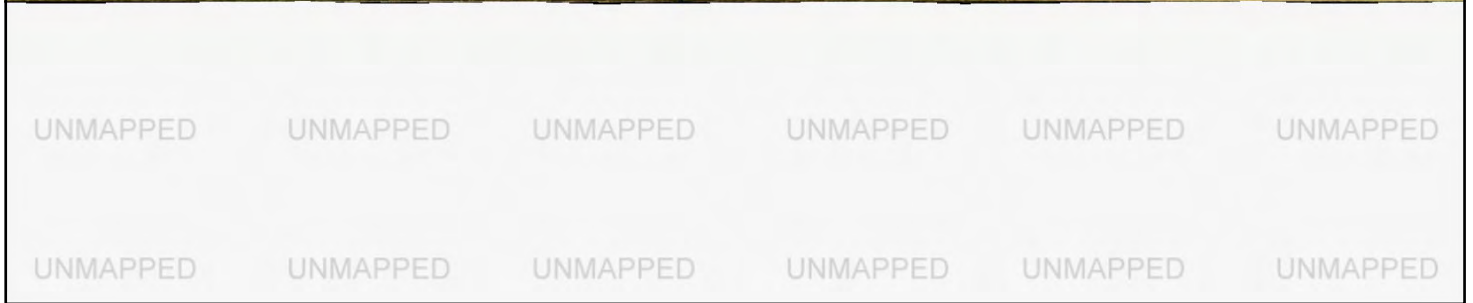
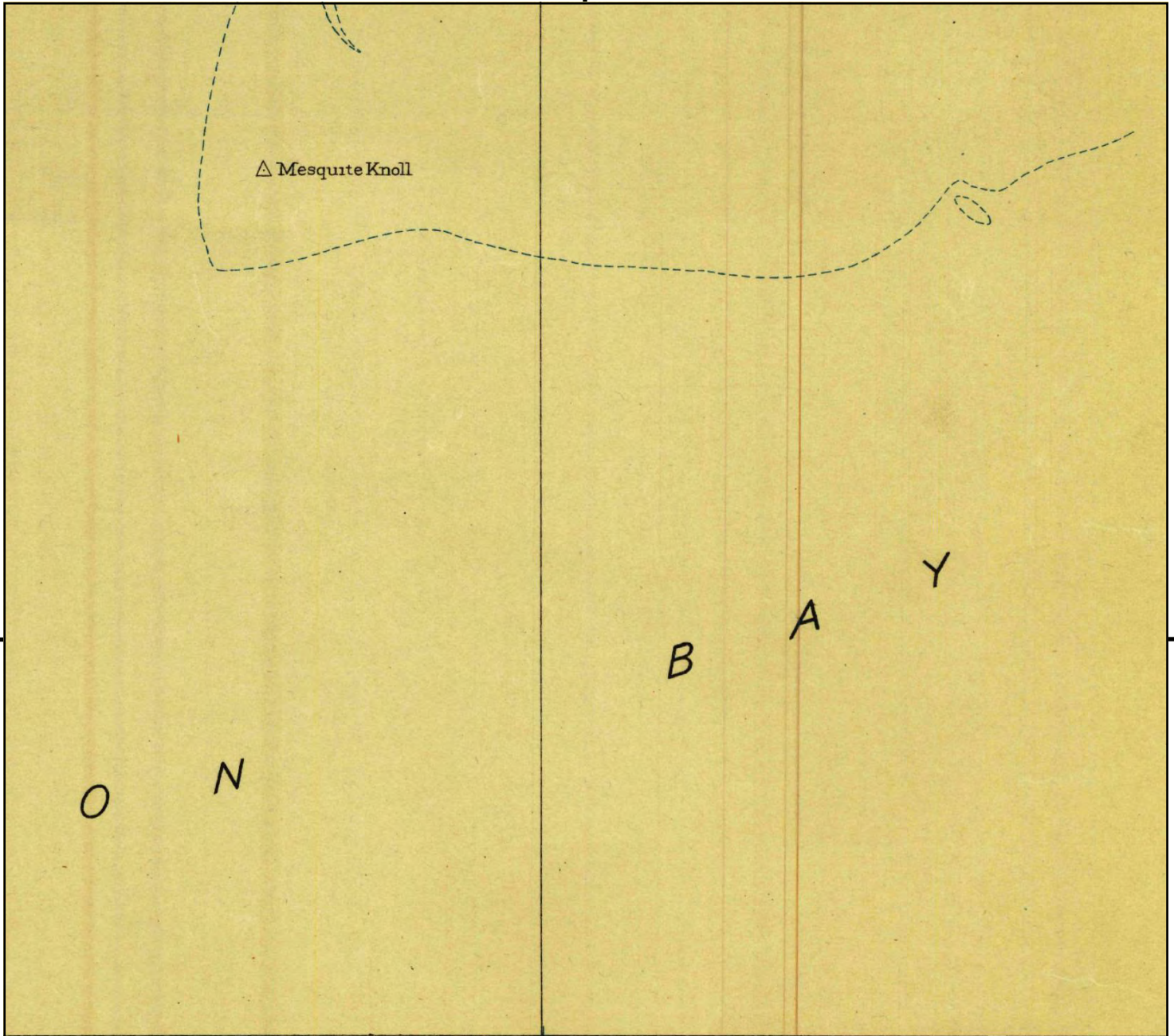
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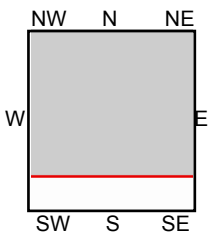
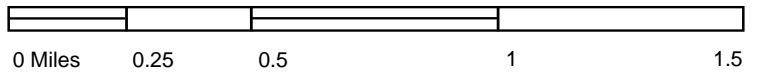
TP, Morgan Point, 1919, 7.5-minute

SITE NAME: CPIND Deepwater Channel
ADDRESS: Harris & Chambers County
Baytown, TX 77523
CLIENT: Anchor QEA, LLC





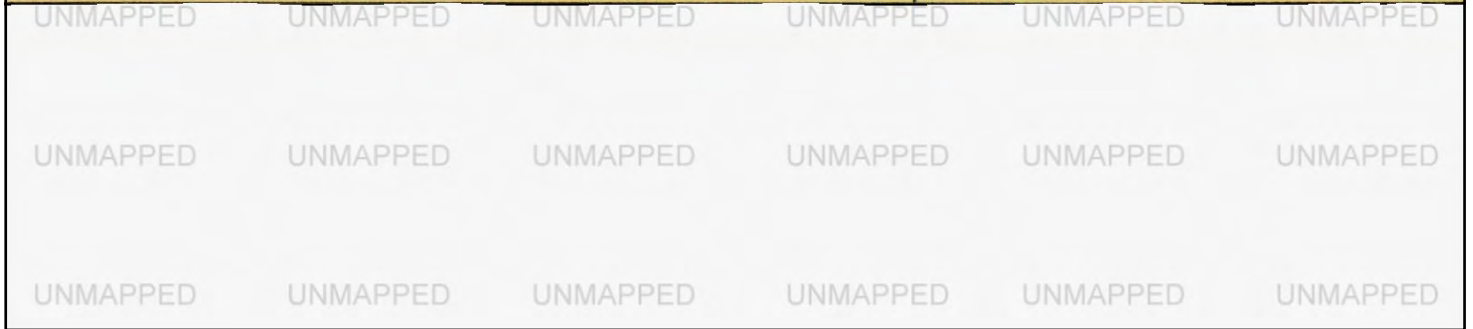
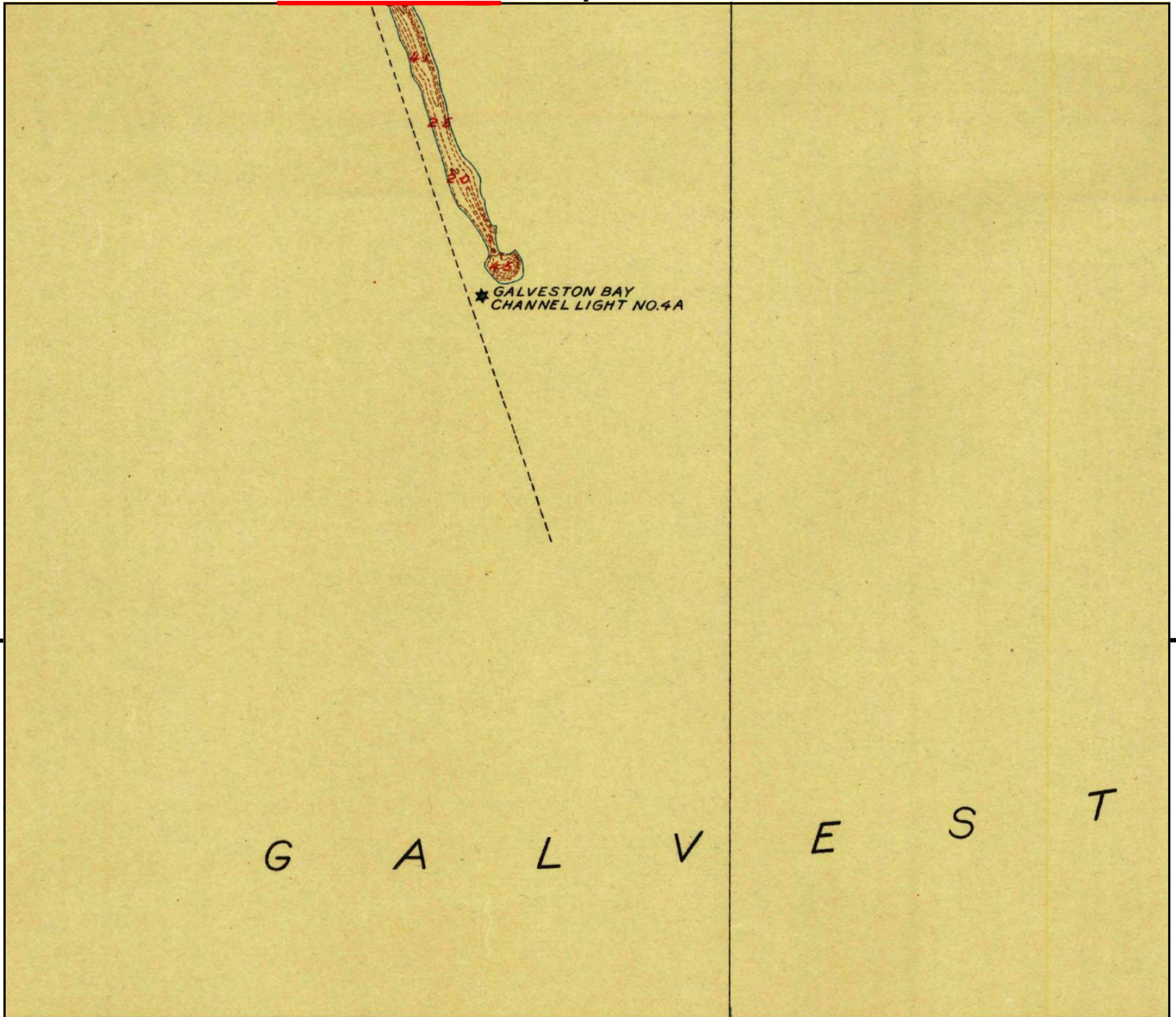
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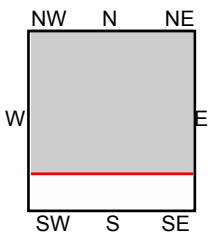
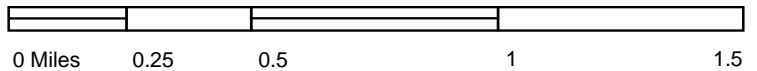
TP, Morgan Point, 1916, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





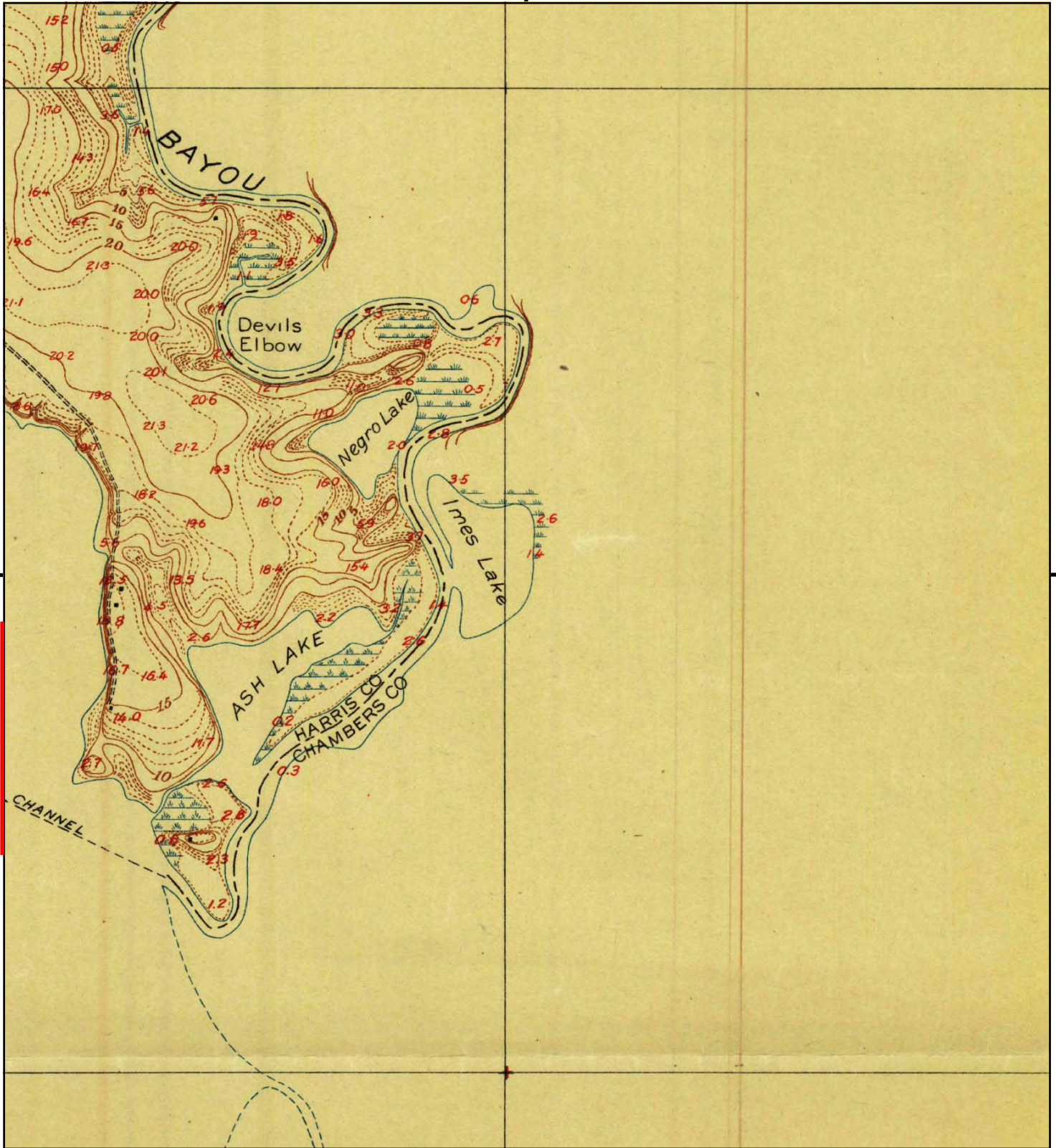
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TP, Morgan Point, 1916, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





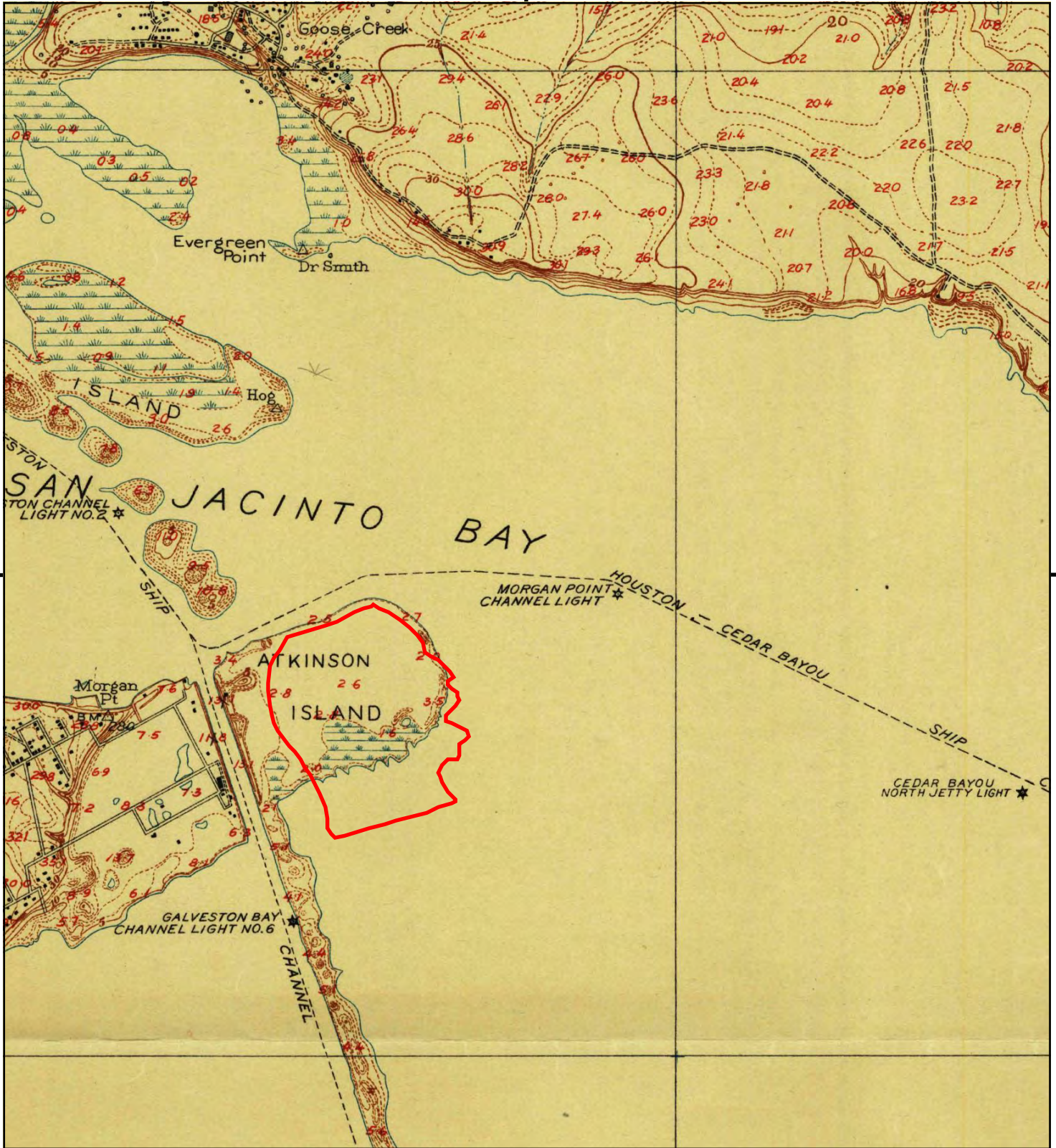
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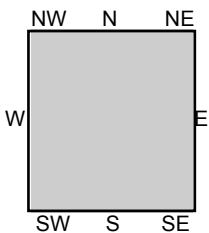
TP, Morgan Point, 1916, 7.5-minute

SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





This report includes information from the following map sheet(s).



TP, Morgan Point, 1916, 7.5-minute

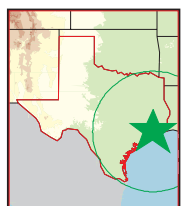
SITE NAME: CPIND Deepwater Channel
 ADDRESS: Harris & Chambers County
 Baytown, TX 77523
 CLIENT: Anchor QEA, LLC





EDR DataMap® - Well Search

CPIND Deepwater Channel



Baytown, TX

- | | | | |
|--------------------|---------------|--------------------|----------|
| Listed Water Wells | Major Roads | Fault Lines | Wetlands |
| Oil & Gas Wells | Waterways | Water | |
| Study Boundary | Railroads | Superfund Sites | |
| Roads | Contour Lines | 100-Yr Flood Zones | |



0 1/2 1

Scale in Miles

CPIND Deepwater Channel
Baytown, TX 77523

Inquiry Number: 7379536.2w
June 30, 2023

EDR DataMap™ Well Search Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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GEOCHECK VERSION 2.1 SUMMARY

FEDERAL DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>
11	USGS40001165942
12	USGS40001165938
13	USGS40001165923
14	USGS40001165922
12	USGS40001165919
15	USGS40001165895
15	USGS40001165896
16	USGS40001165873
17	USGS40001165861
18	USGS40001165833
19	USGS40001165792

STATE WATER WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>
1	TXBR40000089401
2	TXBR40000088719
3	TXBR40000088581
2	TXBR40000031836
1	TXBR40000089403
3	TXBR40000088580
2	TXBR40000088718
2	TXBR40000089379
4	TXBR40000088589
2	TXBR40000088712
5	TXBR40000089192
2	TXBR40000089405
2	TXBR40000089368
5	TXBR40000089058
6	TXBR40000089407
7	TXBR40000089065
8	TXBR40000088299
9	TXHG60000010155
9	TXMON6000203988
9	TXMON6000203944
9	TXHG60000001488
9	TXMON6000203989
9	TXHG60000009920
10	TXMON6000457078
10	TXMON6000457623
9	TXHG60000009057
9	TXMON6000565584
9	TXHG60000010350
9	TXHG60000001513
10	TXMON6000545515
10	TXMON6000545520
12	TXWDB8000109579
11	TXWDB8000129510
13	TXMON6000163245
13	TXDOL2000025933
10	TXMON6000216098
14	TXHG60000000739

GEOCHECK VERSION 2.1 SUMMARY

STATE WATER WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>
13	TXPLU6000090366
14	TXWDB8000111917
13	TXWDB8000113612
12	TXWDB8000112812
13	TXMON6000019800
13	TXDOL2000026274
13	TXPLU6000038923
15	TXWDB8000109567
15	TXWDB8000109578
13	TXPLU6000023039
13	TXPLU6000088623
16	TXWDB8000110110
17	TXPLU6000135190
17	TXPLU6000135198
17	TXPLU6000135196
17	TXPLU6000021648
17	TXPLU6000021649
17	TXPLU6000135199
17	TXPLU6000135191
17	TXPLU6000021650
17	TXPLU6000135193
17	TXPLU6000135192
17	TXPLU6000135194
17	TXPLU6000135195
17	TXPLU6000135197
17	TXMON6000289554
17	TXMON6000289555
17	TXMON6000289559
17	TXMON6000289548
17	TXMON6000289550
17	TXMON6000289556
17	TXMON6000303984
17	TXMON6000289552
17	TXMON6000303983
17	TXMON6000303982
17	TXMON6000289563
17	TXMON6000289560
17	TXMON6000289557
17	TXWDB8000113866
17	TXPLU6000128078
17	TXMON6000242085
17	TXMON6000242082
18	TXWDB8000129511
20	TXWDB8000114330
20	TXMON6000188463
21	TXMON6000259928
21	TXMON6000153077
21	TXDOL2000025971
21	TXBR40000061568
21	TXMON6000395840

STATE OIL/GAS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>
1	TXOG90001089289

GEOCHECK VERSION 2.1 SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
2	TXOG90001089081
3	TXOG90001089292
4	TXOG90001089303
5	TXOG90001089301
6	TXOG90001089294
7	TXOG90001089308
8	TXOG90001089304
9	TXOG90001089300
10	TXOG90001089314
11	TXOG90001089325
12	TXOG90001089328
13	TXOG90001089329
14	TXOG90001089331
15	TXOG90001089320
16	TXOG90001089312
17	TXOG90001089317
18	TXOG90001089323
19	TXOG90001089518
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25	TXOG90001089327
26	TXOG90001089322
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28	TXOG90001089319
29	TXOG90001089330
30	TXOG90001089529
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32	TXOG90001089326
33	TXOG90001089535
34	TXOG90001089315
35	TXOG90001089533
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37	TXOG90001089532
38	TXOG90001089549
39	TXOG90001089547
40	TXOG90001089531
41	TXOG90001089541
42	TXOG90001089537
43	TXOG90001089538
44	TXOG90001089530
45	TXOG90001089542
46	TXOG90001089520
47	TXOG90001089544
48	TXOG90001089554
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50	TXOG90001089527
51	TXOG90001089552
52	TXOG90001089548
53	TXOG90001089540
54	TXOG90001089743
55	TXOG90001089551

GEOCHECK VERSION 2.1 SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
56	TXOG90001089555
57	TXOG90001089556
58	TXOG90001089558
59	TXOG90001089560
60	TXOG90001089747
61	TXOG90001089751
62	TXOG90001089745
63	TXOG90001089757
64	TXOG90001089748
65	TXOG90001089752
66	TXOG90001089550
67	TXOG90001089758
68	TXOG90001089750
69	TXOG90001089762
70	TXOG90001089746
71	TXOG90001089534
72	TXOG90001089754
73	TXOG90001089744
74	TXOG90001089756
75	TXOG90001089749
76	TXOG90001089755
77	TXOG90001089764
78	TXOG90001089753
79	TXOG90001089774
80	TXOG90001089559
81	TXOG90001089769
82	TXOG90001089763
83	TXOG90001089773
84	TXOG90001089768
85	TXOG90001089775
86	TXOG90001089557
87	TXOG90001089765
88	TXOG90001089767
89	TXOG90001089782
90	TXOG90001089770
91	TXOG90001089956
92	TXOG90001089958
93	TXOG90001089772
94	TXOG90001089784
95	TXOG90001089787
96	TXOG90001089780
97	TXOG90001089783
98	TXOG90001089785
99	TXOG90001089960
100	TXOG90001089953
101	TXOG90001089951
102	TXOG90001089963
103	TXOG90001089776
104	TXOG90001089977
105	TXOG90001089965
106	TXOG90001089781
107	TXOG90001089964
108	TXOG90001089778
109	TXOG90001089759

GEOCHECK VERSION 2.1 SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
110	TXOG90001089967
111	TXOG90001089954
112	TXOG90001089786
113	TXOG90001089983
114	TXOG90001089971
115	TXOG90001089970
116	TXOG90001089972
117	TXOG90001089766
118	TXOG90001089961
119	TXOG90001089985
120	TXOG90001089962
121	TXOG90001089952
122	TXOG90001089988
123	TXOG90001089980
124	TXOG90001089976
125	TXOG90001089974
126	TXOG90001089994
127	TXOG90001089975
128	TXOG90001089981
129	TXOG90001089973
130	TXOG90001089990
131	TXOG90001089987
132	TXOG90001090169
133	TXOG90001089979
134	TXOG90001089779
135	TXOG90001090168
136	TXOG90001090167
137	TXOG90001089777
138	TXOG90001089989
139	TXOG90001090166
140	TXOG90001089992
141	TXOG90001090172
142	TXOG90001089993
143	TXOG90001090163
144	TXOG90001090180
145	TXOG90001089995
146	TXOG90001090164
147	TXOG90001090181
148	TXOG90001090182
149	TXOG90001090171
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158	TXOG90001090177
159	TXOG90001089986
160	TXOG90001089968
161	TXOG90001090175
162	TXOG90001090184
163	TXOG90001089984

GEOCHECK VERSION 2.1 SUMMARY

STATE OIL/GAS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>
164	TXOG90001090187
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175	TXOG90001090191
176	TXOG90001090197
177	TXOG90001090198
178	TXOG90001090195
179	TXOG90001090196
180	TXOG90001090199
181	TXOG90001090202
182	TXOG90001090201
183	TXOG90001090192
184	TXOG90001090203
185	TXOG90001090204
186	TXOG90001090206
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188	TXOG90001090200
189	TXOG90001090205
190	TXOG90001090385
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192	TXOG90001090387
193	TXOG90001090381
194	TXOG90001090188
195	TXOG90001090189
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210	TXOG90001090398
211	TXOG90001090399
212	TXOG90001090402
213	TXOG90001090401
214	TXOG90001090403
215	TXOG90001090404
216	TXOG90001090406
217	TXOG90001090405

GEOCHECK VERSION 2.1 SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
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219	TXOG90001090408
220	TXOG90001090409
221	TXOG90001090410
222	TXOG90000077589
223	TXOG90000077662
224	TXOG90000077667
225	TXOG90000077665
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227	TXOG90000077668
228	TXOG90000077669
229	TXOG90000077671
230	TXOG90000077670
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232	TXOG90000077673
233	TXOG90000077674
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253	TXOG90000077694
254	TXOG90000077695
255	TXOG90000077696
256	TXOG90000077697
257	TXOG90000077699
258	TXOG90000077773
259	TXOG90000077698
260	TXOG90000077702
261	TXOG90000077701
262	TXOG90000077700
263	TXOG90000077703
264	TXOG90000077704
265	TXOG90000077772
266	TXOG90000077775
267	TXOG90000077774
268	TXOG90000077777
269	TXOG90000077776
270	TXOG90000077778
271	TXOG90000077779

GEOCHECK VERSION 2.1 SUMMARY

STATE OIL/GAS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>
272	TXOG90000077780
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274	TXOG90000077782
275	TXOG90000077783
276	TXOG90000077784
277	TXOG90000077786
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279	TXOG90000077785
280	TXOG90000077788
281	TXOG90000077791
282	TXOG90000077790
283	TXOG90000077793
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285	TXOG90000077789
286	TXOG90000077795
287	TXOG90000077798
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290	TXOG90000077799
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299	TXOG90000077807
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301	TXOG90000077811
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GEOCHECK VERSION 2.1 SUMMARY

STATE OIL/GAS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>
326	TXOG90000077908
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345	TXOG90000077981
346	TXOG90000082201
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366	TXOG90000077999
367	TXOG90000078000
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370	TXOG90000077995
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372	TXOG90000078003
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374	TXOG90000078005
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376	TXOG90000078008
377	TXOG90000078009
378	TXOG90000078507
379	TXOG90000078508

GEOCHECK VERSION 2.1 SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
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381	TXOG90000078510
382	TXOG90000078511
383	TXOG90000078513
384	TXOG90000078515
385	TXOG90000078514
386	TXOG90000078512
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390	TXOG90000078523
391	TXOG90000078520
392	TXOG90000078521
393	TXOG90000078522
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396	TXOG90000078527
397	TXOG90000078526
398	TXOG90000078528
399	TXOG90000078531
400	TXOG90000078564
401	TXOG90000078563
402	TXOG90000078565
403	TXOG90000078530
404	TXOG90000078567
405	TXOG90000078568
406	TXOG90000078569
407	TXOG90000078572
408	TXOG90000078573
409	TXOG90000078571
410	TXOG90000078577
411	TXOG90000078578
412	TXOG90000078581
413	TXOG90000078582
414	TXOG90000078584
415	TXOG90000078585
416	TXOG90000078586
417	TXOG90000078587
418	TXOG90000078588
419	TXOG90000078589
420	TXOG90000078591
421	TXOG90000078593
422	TXOG90000078599
423	TXOG90000078596
424	TXOG90000078597
425	TXOG90000078595
426	TXOG90000078600
427	TXOG90000078652
428	TXOG90000078653
429	TXOG90000078654
430	TXOG90000078655
431	TXOG90000078656
432	TXOG90000078660
433	TXOG90000078661

GEOCHECK VERSION 2.1 SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
434	TXOG90000078662
435	TXOG90000078663
436	TXOG90000078668
437	TXOG90000078670
438	TXOG90000078673
439	TXOG90000078672
440	TXOG90000078675
441	TXOG90000078678
442	TXOG90000078756
443	TXOG90000078788
444	TXOG90000078848
445	TXOG90000078851
446	TXOG90000078854
447	TXOG90000078855
448	TXOG90000078864
449	TXOG90000078863
450	TXOG90000078867
451	TXOG90000078862
452	TXOG90000078871
453	TXOG90000078872
454	TXOG90000078873
455	TXOG90000078874
456	TXOG90000078939

PUBLIC WATER SUPPLY SYSTEM INFORMATION

NO WELLS FOUND

USGS TOPOGRAPHIC MAP(S)

29094-E8 BACLIFF, TX
 29094-F8 MORGANS POINT, TX
 29095-F1 LA PORTE, TX

AREA RADON INFORMATION

Federal Area Radon Information for Zip Code: 77520

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.300 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

State Database: TX Radon

Radon Test Results

County	Mean	Total Sites	%>4 pCi/L	%>20 pCi/L	Min pCi/L	Max pCi/L
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GEOCHECK VERSION 2.1 SUMMARY

AREA RADON INFORMATION

HARRIS	<.5	131	.0	.0	<.5	3.8
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Federal EPA Radon Zone for HARRIS County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for HARRIS COUNTY, TX

Number of sites tested: 115

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.425 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

State Database: TX Radon

Radon Test Results

County	Mean	Total Sites	%>4 pCi/L	%>20 pCi/L	Min pCi/L	Max pCi/L
CHAMBERS	**					

Federal EPA Radon Zone for CHAMBERS County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

GEOCHECK VERSION 2.1 STATE DATABASE WELL INFORMATION

Water Well Information:

Map ID:	11		
Organization ID:	USGS-TX		
Organization Name:	USGS Texas Water Science Center		
Monitor Location:	DH-64-17-502	Type:	Well
Description:	Not Reported	HUC:	12040203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Coastal lowlands aquifer system		
Formation Type:	Chicot Aquifer, Upper	Aquifer Type:	Not Reported
Construction Date:	1938	Well Depth:	82
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1941-03-13
Feet below surface:	7.9	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID:	12		
Organization ID:	USGS-TX		
Organization Name:	USGS Texas Water Science Center		
Monitor Location:	LJ-64-17-403	Type:	Well
Description:	Not Reported	HUC:	12040204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Coastal lowlands aquifer system		
Formation Type:	Chicot Aquifer	Aquifer Type:	Confined single aquifer
Construction Date:	1906	Well Depth:	450
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1939-01-18
Feet below surface:	64.7	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID:	13		
Organization ID:	USGS-TX		
Organization Name:	USGS Texas Water Science Center		
Monitor Location:	DH-64-17-501	Type:	Well
Description:	Not Reported	HUC:	12040203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Coastal lowlands aquifer system		
Formation Type:	Chicot Aquifer, Lower	Aquifer Type:	Not Reported
Construction Date:	1939	Well Depth:	429
Well Depth Units:	ft	Well Hole Depth:	Not Reported

GEOCHECK VERSION 2.1 STATE DATABASE WELL INFORMATION

Well Hole Depth Units: Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1939-07
Feet below surface:	52	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID:	14		
Organization ID:	USGS-TX		
Organization Name:	USGS Texas Water Science Center		
Monitor Location:	LJ-64-17-407	Type:	Well
Description:	Not Reported	HUC:	12040204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Coastal lowlands aquifer system		
Formation Type:	Chicot Aquifer	Aquifer Type:	Confined single aquifer
Construction Date:	196602	Well Depth:	462
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1966-02
Feet below surface:	185	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1966-02	Feet below surface:	185
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID:	12		
Organization ID:	USGS-TX		
Organization Name:	USGS Texas Water Science Center		
Monitor Location:	LJ-64-17-404	Type:	Well
Description:	Not Reported	HUC:	12040204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Coastal lowlands aquifer system		
Formation Type:	Chicot Aquifer	Aquifer Type:	Confined single aquifer
Construction Date:	1914	Well Depth:	450
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1939-01-18
Feet below surface:	63.8	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Map ID: 15
 Organization ID: USGS-TX
 Organization Name: USGS Texas Water Science Center
 Monitor Location: LJ-64-17-401 Type: Well
 Description: Not Reported HUC: 12040204
 Drainage Area: Not Reported Drainage Area Units: Not Reported
 Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported
 Aquifer: Coastal lowlands aquifer system
 Formation Type: Chicot Aquifer Aquifer Type: Confined single aquifer
 Construction Date: 1900 Well Depth: 450
 Well Depth Units: ft Well Hole Depth: Not Reported
 Well Hole Depth Units: Not Reported

Ground water levels,Number of Measurements: 1 Level reading date: 1956-08-02
 Feet below surface: 185 Feet to sea level: Not Reported
 Note: Not Reported

Map ID: 15
 Organization ID: USGS-TX
 Organization Name: USGS Texas Water Science Center
 Monitor Location: LJ-64-17-402 Type: Well
 Description: Not Reported HUC: 12040204
 Drainage Area: Not Reported Drainage Area Units: Not Reported
 Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported
 Aquifer: Coastal lowlands aquifer system
 Formation Type: Chicot Aquifer Aquifer Type: Confined single aquifer
 Construction Date: 195201 Well Depth: 411
 Well Depth Units: ft Well Hole Depth: Not Reported
 Well Hole Depth Units: Not Reported

Ground water levels,Number of Measurements: 1 Level reading date: 1952-01
 Feet below surface: 156 Feet to sea level: Not Reported
 Note: Not Reported

Map ID: 16
 Organization ID: USGS-TX
 Organization Name: USGS Texas Water Science Center
 Monitor Location: LJ-64-17-405 Type: Well
 Description: Not Reported HUC: 12040204
 Drainage Area: Not Reported Drainage Area Units: Not Reported
 Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported
 Aquifer: Coastal lowlands aquifer system
 Formation Type: Evangeline Aquifer Aquifer Type: Confined single aquifer
 Construction Date: 1900 Well Depth: 1374
 Well Depth Units: ft Well Hole Depth: Not Reported
 Well Hole Depth Units: Not Reported

GEOCHECK VERSION 2.1 STATE DATABASE WELL INFORMATION

Map ID: 17
 Organization ID: USGS-TX
 Organization Name: USGS Texas Water Science Center
 Monitor Location: DH-64-17-503 Type: Well
 Description: Not Reported HUC: 12040203
 Drainage Area: Not Reported Drainage Area Units: Not Reported
 Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported
 Aquifer: Coastal lowlands aquifer system
 Formation Type: Chicot Aquifer, Lower Aquifer Type: Not Reported
 Construction Date: 1932 Well Depth: 638
 Well Depth Units: ft Well Hole Depth: Not Reported
 Well Hole Depth Units: Not Reported

Ground water levels,Number of Measurements: 1 Level reading date: 1941-01-08
 Feet below surface: 61.6 Feet to sea level: Not Reported
 Note: Not Reported

Map ID: 18
 Organization ID: USGS-TX
 Organization Name: USGS Texas Water Science Center
 Monitor Location: DH-64-17-504 Type: Well
 Description: Not Reported HUC: 12040203
 Drainage Area: Not Reported Drainage Area Units: Not Reported
 Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported
 Aquifer: Coastal lowlands aquifer system
 Formation Type: Chicot Aquifer, Upper Aquifer Type: Not Reported
 Construction Date: 1939 Well Depth: 93
 Well Depth Units: ft Well Hole Depth: Not Reported
 Well Hole Depth Units: Not Reported

Ground water levels,Number of Measurements: 1 Level reading date: 1939-07
 Feet below surface: 18 Feet to sea level: Not Reported
 Note: Not Reported

Map ID: 19
 Organization ID: USGS-TX
 Organization Name: USGS Texas Water Science Center
 Monitor Location: DH-64-17-803 Type: Well
 Description: Not Reported HUC: 12040203
 Drainage Area: Not Reported Drainage Area Units: Not Reported
 Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported
 Aquifer: Coastal lowlands aquifer system
 Formation Type: Chicot Aquifer, Upper Aquifer Type: Not Reported
 Construction Date: Not Reported Well Depth: 11
 Well Depth Units: ft Well Hole Depth: Not Reported
 Well Hole Depth Units: Not Reported

Ground water levels,Number of Measurements: 1 Level reading date: 1941-03-28
 Feet below surface: 5.2 Feet to sea level: Not Reported
 Note: Not Reported

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

State Well Information:

Map ID: 1
 Database: Brackish Resources Aquifer Characterization System Database
 Well ID: 97518 Well Type: Oil or Gas
 Well Use: Resource production
 Data Source: RRC GAU Q Paper/Digital Geophysical Logs
 Well Depth (ft): -99999 Well Bottom Elevation (ft): -99999
 Total Hole Depth (ft): 4800 Bottom Hole Elevation (ft): -99999
 Drill Date: 02/28/1947 Kelly Bushing Height (ft): 0
 Remarks: KB unknown

Map ID: 2
 Database: Brackish Resources Aquifer Characterization System Database
 Well ID: 96835 Well Type: Oil or Gas
 Well Use: Resource production
 Data Source: RRC GAU Q Paper/Digital Geophysical Logs
 Well Depth (ft): -99999 Well Bottom Elevation (ft): -99999
 Total Hole Depth (ft): 4521 Bottom Hole Elevation (ft): -99999
 Drill Date: 10/31/1948 Kelly Bushing Height (ft): 17
 Remarks: Original operator Amerada - Stanolind

Map ID: 3
 Database: Brackish Resources Aquifer Characterization System Database
 Well ID: 96696 Well Type: Oil or Gas
 Well Use: Resource production
 Data Source: RRC GAU Q Paper/Digital Geophysical Logs
 Well Depth (ft): -99999 Well Bottom Elevation (ft): -99999
 Total Hole Depth (ft): 4517 Bottom Hole Elevation (ft): -99999
 Drill Date: 11/09/1965 Kelly Bushing Height (ft): 10
 Remarks: N/A

Map ID: 2
 Database: Brackish Resources Aquifer Characterization System Database
 Well ID: 29182 Well Type: Oil or Gas
 Well Use: Resource production
 Data Source: BEG Paper/Digital Geophysical Logs
 Well Depth (ft): -99999 Well Bottom Elevation (ft): -99999
 Total Hole Depth (ft): 4510 Bottom Hole Elevation (ft): -4510
 Drill Date: 06/26/1993 Kelly Bushing Height (ft): 32
 Remarks: Not Reported

Map ID: 1
 Database: Brackish Resources Aquifer Characterization System Database
 Well ID: 97520 Well Type: Oil or Gas
 Well Use: Resource production
 Data Source: RRC GAU Q Paper/Digital Geophysical Logs
 Well Depth (ft): -99999 Well Bottom Elevation (ft): -99999
 Total Hole Depth (ft): 3591 Bottom Hole Elevation (ft): -99999
 Drill Date: 05/16/1947 Kelly Bushing Height (ft): 13

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Remarks: N/A

Map ID: 3
 Database: Brackish Resources Aquifer Characterization System Database
 Well ID: 96695 Well Type: Oil or Gas
 Well Use: Resource production
 Data Source: RRC GAU Q Paper/Digital Geophysical Logs
 Well Depth (ft): -99999 Well Bottom Elevation (ft): -99999
 Total Hole Depth (ft): 5755 Bottom Hole Elevation (ft): -99999
 Drill Date: 06/11/1966 Kelly Bushing Height (ft): 10
 Remarks: N/A

Map ID: 2
 Database: Brackish Resources Aquifer Characterization System Database
 Well ID: 96834 Well Type: Oil or Gas
 Well Use: Resource production
 Data Source: RRC GAU Q Paper/Digital Geophysical Logs
 Well Depth (ft): -99999 Well Bottom Elevation (ft): -99999
 Total Hole Depth (ft): 4800 Bottom Hole Elevation (ft): -99999
 Drill Date: 11/27/1948 Kelly Bushing Height (ft): 17
 Remarks: Original operator Amerada - Stanolind

Map ID: 2
 Database: Brackish Resources Aquifer Characterization System Database
 Well ID: 97496 Well Type: Oil or Gas
 Well Use: Resource production
 Data Source: RRC GAU Q Paper/Digital Geophysical Logs
 Well Depth (ft): -99999 Well Bottom Elevation (ft): -99999
 Total Hole Depth (ft): 4500 Bottom Hole Elevation (ft): -99999
 Drill Date: 07/07/1948 Kelly Bushing Height (ft): 0
 Remarks: KB unknown

Map ID: 4
 Database: Brackish Resources Aquifer Characterization System Database
 Well ID: 96704 Well Type: Oil or Gas
 Well Use: Resource production
 Data Source: RRC GAU Q Paper/Digital Geophysical Logs
 Well Depth (ft): -99999 Well Bottom Elevation (ft): -99999
 Total Hole Depth (ft): 4711 Bottom Hole Elevation (ft): -99999
 Drill Date: 02/07/1964 Kelly Bushing Height (ft): 11
 Remarks: N/A

Map ID: 2
 Database: Brackish Resources Aquifer Characterization System Database
 Well ID: 96828 Well Type: Oil or Gas
 Well Use: Resource production
 Data Source: RRC GAU Q Paper/Digital Geophysical Logs

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Well Depth (ft):	-99999	Well Bottom Elevation (ft):	-99999
Total Hole Depth (ft):	4501	Bottom Hole Elevation (ft):	-99999
Drill Date:	03/30/1949	Kelly Bushing Height (ft):	13
Remarks:	Original operator Amerada - Stanolind		

Map ID:	5		
Database:	Brackish Resources Aquifer Characterization System Database		
Well ID:	97309	Well Type:	Oil or Gas
Well Use:	Resource production		
Data Source:	RRC GAU Q Paper/Digital Geophysical Logs		
Well Depth (ft):	-99999	Well Bottom Elevation (ft):	-99999
Total Hole Depth (ft):	6340	Bottom Hole Elevation (ft):	-99999
Drill Date:	10/22/1951	Kelly Bushing Height (ft):	13
Remarks:	N/A		

Map ID:	2		
Database:	Brackish Resources Aquifer Characterization System Database		
Well ID:	97522	Well Type:	Oil or Gas
Well Use:	Resource production		
Data Source:	RRC GAU Q Paper/Digital Geophysical Logs		
Well Depth (ft):	-99999	Well Bottom Elevation (ft):	-99999
Total Hole Depth (ft):	4500	Bottom Hole Elevation (ft):	-99999
Drill Date:	11/12/1948	Kelly Bushing Height (ft):	13
Remarks:	N/A		

Map ID:	2		
Database:	Brackish Resources Aquifer Characterization System Database		
Well ID:	97485	Well Type:	Oil or Gas
Well Use:	Resource production		
Data Source:	RRC GAU Q Paper/Digital Geophysical Logs		
Well Depth (ft):	-99999	Well Bottom Elevation (ft):	-99999
Total Hole Depth (ft):	4720	Bottom Hole Elevation (ft):	-99999
Drill Date:	07/29/1985	Kelly Bushing Height (ft):	23
Remarks:	N/A		

Map ID:	5		
Database:	Brackish Resources Aquifer Characterization System Database		
Well ID:	97174	Well Type:	Oil or Gas
Well Use:	Resource production		
Data Source:	RRC GAU Q Paper/Digital Geophysical Logs		
Well Depth (ft):	-99999	Well Bottom Elevation (ft):	-99999
Total Hole Depth (ft):	4740	Bottom Hole Elevation (ft):	-99999
Drill Date:	01/09/1952	Kelly Bushing Height (ft):	12
Remarks:	N/A		

Map ID:	6		
Database:	Brackish Resources Aquifer Characterization System Database		

GEOCHECK VERSION 2.1 STATE DATABASE WELL INFORMATION

Well ID:	97524	Well Type:	Oil or Gas
Well Use:	Resource production		
Data Source:	RRC GAU Q Paper/Digital Geophysical Logs		
Well Depth (ft):	-99999	Well Bottom Elevation (ft):	-99999
Total Hole Depth (ft):	5020	Bottom Hole Elevation (ft):	-99999
Drill Date:	12/13/1951	Kelly Bushing Height (ft):	13
Remarks:	Original operator RA Welch		

Map ID:	7		
Database:	Brackish Resources Aquifer Characterization System Database		
Well ID:	97181	Well Type:	Oil or Gas
Well Use:	Resource production		
Data Source:	RRC GAU Q Paper/Digital Geophysical Logs		
Well Depth (ft):	-99999	Well Bottom Elevation (ft):	-99999
Total Hole Depth (ft):	5005	Bottom Hole Elevation (ft):	-99999
Drill Date:	02/23/1954	Kelly Bushing Height (ft):	13
Remarks:	N/A		

Map ID:	8		
Database:	Brackish Resources Aquifer Characterization System Database		
Well ID:	96414	Well Type:	Oil or Gas
Well Use:	Resource production		
Data Source:	RRC GAU Q Paper/Digital Geophysical Logs		
Well Depth (ft):	-99999	Well Bottom Elevation (ft):	-99999
Total Hole Depth (ft):	8004	Bottom Hole Elevation (ft):	-99999
Drill Date:	02/04/1957	Kelly Bushing Height (ft):	32
Remarks:	N/A		

Map ID:	9		
Database:	Water Well Database	Well #:	11243
Permittee:	Harrison, John	Permit #:	194866
Start Date of Permit:	2/1/2018	Exp Date of Permit:	1/31/2023
Usage:	Domestic/Commercial	Active:	Active
Year Drilled:	1970	Diameter:	4
Depth (ft):	560	Depth to 1st Screen (ft):	180

Map ID:	9		
Database:	Submitted Drillers Reports Database		
Well Report #:	207217	Well Type:	New Well
Proposed Use:	Domestic	Borehole Depth (ft):	370
Injurious Water Quality:	Not Reported	Plugging Rpt #:	Not Reported

Map ID:	9		
Database:	Submitted Drillers Reports Database		
Well Report #:	207173	Well Type:	New Well
Proposed Use:	Domestic	Borehole Depth (ft):	310
Injurious Water Quality:	Not Reported	Plugging Rpt #:	Not Reported

Map ID:	9
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GEOCHECK VERSION 2.1 STATE DATABASE WELL INFORMATION

Database:	Water Well Database	Well #:	2509
Permittee:	U.S.X. CORPORATION	Permit #:	36158
Start Date of Permit:	2/1/1991	Exp Date of Permit:	1/31/1992
Usage:	Public Supply	Active:	Inactive
Year Drilled:	1947	Diameter:	4
Depth (ft):	560	Depth to 1st Screen (ft):	550

Map ID:	9		
Database:	Submitted Drillers Reports Database		
Well Report #:	207218	Well Type:	New Well
Proposed Use:	Domestic	Borehole Depth (ft):	230
Injurious Water Quality:	Not Reported	Plugging Rpt #:	Not Reported

Map ID:	9		
Database:	Water Well Database	Well #:	11007
Permittee:	Thompson, Debbie	Permit #:	195335
Start Date of Permit:	2/1/2018	Exp Date of Permit:	1/31/2023
Usage:	Domestic/Commercial	Active:	Active
Year Drilled:	1952	Diameter:	4
Depth (ft):	100	Depth to 1st Screen (ft):	NULL

Map ID:	10		
Database:	Submitted Drillers Reports Database		
Well Report #:	468721	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	22
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

Map ID:	10		
Database:	Submitted Drillers Reports Database		
Well Report #:	468723	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	22
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

Map ID:	9		
Database:	Water Well Database	Well #:	10138
Permittee:	Kibbe, Al	Permit #:	214171
Start Date of Permit:	1/1/2021	Exp Date of Permit:	12/31/2021
Usage:	Public Supply	Active:	Inactive
Year Drilled:	2005	Diameter:	5
Depth (ft):	420	Depth to 1st Screen (ft):	400

Map ID:	9		
Database:	Submitted Drillers Reports Database		
Well Report #:	151342	Well Type:	New Well

GEOCHECK VERSION 2.1 STATE DATABASE WELL INFORMATION

Proposed Use:	Domestic	Borehole Depth (ft):	637
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

Map ID:	9	Well #:	11438
Database:	Water Well Database	Permit #:	207772
Permittee:	Galloway, Ronald Lynn	Exp Date of Permit:	1/31/2025
Start Date of Permit:	2/1/2020	Active:	Active
Usage:	Domestic/Commercial	Diameter:	4
Year Drilled:	Not Reported	Depth to 1st Screen (ft):	10
Depth (ft):	20		

Map ID:	9	Well #:	2534
Database:	Water Well Database	Permit #:	195521
Permittee:	Foubister, Lin	Exp Date of Permit:	2/28/2018
Start Date of Permit:	3/1/2018	Active:	Inactive
Usage:	Other	Diameter:	4
Year Drilled:	1985	Depth to 1st Screen (ft):	584
Depth (ft):	594		

Map ID:	10	Well Type:	New Well
Database:	Submitted Drillers Reports Database	Borehole Depth (ft):	22
Well Report #:	562103	Plugging Rpt #:	Not Reported
Proposed Use:	Monitor		
Injurious Water Quality:	no		

Map ID:	10	Well Type:	New Well
Database:	Submitted Drillers Reports Database	Borehole Depth (ft):	22
Well Report #:	562104	Plugging Rpt #:	Not Reported
Proposed Use:	Monitor		
Injurious Water Quality:	no		

Map ID:	12	Well #:	6417403
Database:	Groundwater Database	Elevation (ft):	6
Primary Water Use:	Plugged or Destroyed	Observation Type:	Miscellaneous Measurements
Well Depth (ft):	450	Aquifer:	112CHCTL - Chicot Aquifer, Lower
Water Quality Review:	Yes		
Well Type:	Withdrawal of Water		

Map ID:	11	Well #:	6417502
Database:	Groundwater Database	Elevation (ft):	5
Primary Water Use:	Domestic	Observation Type:	Miscellaneous Measurements
Well Depth (ft):	82	Aquifer:	112CHCTU - Chicot Aquifer, Upper
Water Quality Review:	Yes		
Well Type:	Withdrawal of Water		

Map ID:	13	
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GEOCHECK VERSION 2.1 STATE DATABASE WELL INFORMATION

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	166004	Borehole Depth (ft):	424
Proposed Use:	Industrial	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

Map ID:	13		
Database:	Well Report Database	Fid:	25932
Rec id:	25931	Edr site i:	166004
Owner:	Waste Management	Ownerwell:	1
Address:	4791 Tri City Beach Rd., Baytown , TX 77520		
Grid:	64-17-5		
Waddress:	4791 Tri City Beach Rd., Baytown , TX 77520		
Lat:	29 40 44 N	County:	Chambers
Long:	094 55 24 W	Elevation:	14 ft.
Gpsused:	Garmin Etrex	Typeofwork:	New Well
Propuse:	Industrial	Sdate:	Not Reported
Completedd:	Not Reported	Diameter:	11 in From Surface To 105 ft
Dmethod:	Mud Rotary	Bcompleteio:	Straight Wall
Packedfrom:	Not Reported	Packsizes:	Not Reported
Finterval:	From 0 ft to 408 ft with 35 cement (#sacks and material)		
Sinterval:	No Data	Tinterval:	No Data
Usedmethod:	Circulated	Cementedby:	Davison Water Well Service
Contaminat:	50+ ft	Propertyli:	10+ ft
Verrimetho:	measurement	Varriance:	No Data
Surface:	Alternative Procedure Used	Staticleve:	110 ft. below land surface on 12/15/2008
Flow:	No Data	Packers:	No Data
Cementinwe:	No Data	Typepump:	Submersible
Pumpbowl:	210 ft	Welltests:	Jetted
Yield:	50 GPM with 0 ft drawdown after 2 hours		
Watertype:	Good	Stratadept:	14 ft.
Chemicalma:	No	Undesirabl:	No
Companynam:	Davison Water Well Service	Companyadd:	PO Box 759
Ccitystate:	Alvin , TX 77512	Licensenum:	2268
Wsignature:	John P. Davison	Dsignature:	No Data
Regnum:	No Data	Comments:	surface completion:
Site id:	TXDOL2000025933		

Map ID:	10		
Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	219463	Borehole Depth (ft):	19
Proposed Use:	Monitor	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

Map ID:	14		
Database:	Water Well Database	Well #:	1758
Permittee:	Morgan's Point, City of	Permit #:	38435
Start Date of Permit:	1/1/1991	Exp Date of Permit:	12/31/1991
Usage:	Public Supply	Active:	Inactive
Year Drilled:	1966	Diameter:	6
Depth (ft):	558	Depth to 1st Screen (ft):	0

Map ID: 13

GEOCHECK VERSION 2.1 STATE DATABASE WELL INFORMATION

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	13569
Well Type:	Monitor	Borehole Depth (ft):	90

Map ID:	14	Well #:	6417407
Database:	Groundwater Database	Elevation (ft):	27
Primary Water Use:	Public Supply	Observation Type:	None
Well Depth (ft):	462	Aquifer:	112CHCT - Chicot Aquifer
Water Quality Review:	No		
Well Type:	Withdrawal of Water		

Map ID:	13	Well #:	6417501
Database:	Groundwater Database	Elevation (ft):	16
Primary Water Use:	Unused	Observation Type:	Miscellaneous Measurements
Well Depth (ft):	429	Aquifer:	112CHCTL - Chicot Aquifer, Lower
Water Quality Review:	Yes		
Well Type:	Withdrawal of Water		

Map ID:	12	Well #:	6417404
Database:	Groundwater Database	Elevation (ft):	8
Primary Water Use:	Unused	Observation Type:	None
Well Depth (ft):	450	Aquifer:	112CHCT - Chicot Aquifer
Water Quality Review:	No		
Well Type:	Withdrawal of Water		

Map ID:	13	Well Type:	New Well
Database:	Submitted Drillers Reports Database	Borehole Depth (ft):	0
Well Report #:	20525	Plugging Rpt #:	Not Reported
Proposed Use:	Monitor		
Injurious Water Quality:	no		

Map ID:	13	Fid:	26273
Database:	Well Report Database	Edr site i:	20525
Rec id:	26267	Ownerwell:	MW-4R
Owner:	WMI - Baytown Landfill	Waddress:	4791 Tri Beach City Road, Baytown , TX
Address:	4791 Tri Beach City Road, Baytown , TX	County:	Chambers
Grid:	64-17-5	Elevation:	No Data
Lat:	29 40 36 N	Typeofwork:	New Well
Long:	094 55 19 W	Sdate:	Not Reported
Gpsused:	No Data	Diameter:	7 in From 0 ft To (No Data) ft
Propuse:	Monitor	Bcompletio:	Not Reported
Completedd:	Not Reported	Packsio:	Not Reported
Dmethod:	Mud Rotary	Usedmethod:	Tremie
Packedfrom:	98.5 ft to 75.5 ft		
Finterval:	From 0 ft to 72 ft with 7 (#sacks and material)		
Sinterval:	From N/A ft to N/A ft with N/A (#sacks and material)		
Tinterval:	No Data		

GEOCHECK VERSION 2.1 STATE DATABASE WELL INFORMATION

Cementedby:	Stamoulis	Contaminat:	N/A ft
Propertyli:	No Data	Verrimetho:	N/A
Varriance:	No Data	Surface:	Surface Sleeve Installed
Staticleve:	24.0 ft. below land surface on 4/25/2003		
Flow:	No Data	Packers:	N/A
Cementinwe:	Not Reported	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported	Watertype:	No Data
Stratadept:	No Data	Chemicalma:	No Data
Undesirabl:	No	Companynam:	Prospector Drilling & Tool Co., Inc.
Companyadd:	2420 Church	Ccitystate:	Galveston , TX 77553
Licensenum:	54882	Wsignature:	Stefan Stamoulis
Dsignature:	No Data	Regnum:	No Data
Comments:	no data	Site id:	TXDOL2000026274

Map ID:	13		
Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	61429
Well Type:	Withdrawal of Water	Borehole Depth (ft):	495

Map ID:	15		
Database:	Groundwater Database	Well #:	6417402
Primary Water Use:	Unused	Elevation (ft):	32
Well Depth (ft):	411	Observation Type:	Historical Observation Well
Water Quality Review:	No	Aquifer:	112CHCTL - Chicot Aquifer, Lower
Well Type:	Withdrawal of Water		

Map ID:	15		
Database:	Groundwater Database	Well #:	6417401
Primary Water Use:	Unused	Elevation (ft):	32
Well Depth (ft):	450	Observation Type:	Historical Observation Well
Water Quality Review:	No	Aquifer:	112CHCTL - Chicot Aquifer, Lower
Well Type:	Withdrawal of Water		

Map ID:	13		
Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	97988
Well Type:	Monitor	Borehole Depth (ft):	25

Map ID:	13		
Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	4811
Well Type:	Withdrawal of Water	Borehole Depth (ft):	0

Map ID: 16

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Database:	Groundwater Database	Well #:	6417405
Primary Water Use:	Unused	Elevation (ft):	27
Well Depth (ft):	1374	Observation Type:	None
Water Quality Review:	No	Aquifer:	121EVGL - Evangeline Aquifer
Well Type:	Withdrawal of Water		

Map ID:	17		
Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	293996	Plugging Rpt #:	137281
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	15

Map ID:	17		
Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	294008	Plugging Rpt #:	137289
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	20

Map ID:	17		
Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	294005	Plugging Rpt #:	137287
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	20

Map ID:	17		
Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	308602	Plugging Rpt #:	86073
Well Type:	Monitor	Borehole Depth (ft):	25

Map ID:	17		
Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	308601	Plugging Rpt #:	86074
Well Type:	Monitor	Borehole Depth (ft):	20

Map ID:	17		
Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	294011	Plugging Rpt #:	137290
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	20

Map ID:	17		
Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	293998	Plugging Rpt #:	137282
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	20

GEOCHECK VERSION 2.1 STATE DATABASE WELL INFORMATION

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	308600	Plugging Rpt #:	86075
Well Type:	Monitor	Borehole Depth (ft):	20

Map ID:	17		
Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	294002	Plugging Rpt #:	137284
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	20

Map ID:	17		
Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	294000	Plugging Rpt #:	137283
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	5

Map ID:	17		
Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	294003	Plugging Rpt #:	137285
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	20

Map ID:	17		
Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	294004	Plugging Rpt #:	137286
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	20

Map ID:	17		
Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	294007	Plugging Rpt #:	137288
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	20

Map ID:	17		
Database:	Submitted Drillers Reports Database		
Well Report #:	294002	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	20
Injurious Water Quality:	Not Reported	Plugging Rpt #:	137284

Map ID:	17		
Database:	Submitted Drillers Reports Database		
Well Report #:	294003	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	20
Injurious Water Quality:	Not Reported	Plugging Rpt #:	137285

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	294007	Borehole Depth (ft):	20
Proposed Use:	Environmental Soil Boring	Plugging Rpt #:	137288
Injurious Water Quality:	Not Reported		

Map ID:	17		
Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	293996	Borehole Depth (ft):	15
Proposed Use:	Environmental Soil Boring	Plugging Rpt #:	137281
Injurious Water Quality:	Not Reported		

Map ID:	17		
Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	293998	Borehole Depth (ft):	20
Proposed Use:	Environmental Soil Boring	Plugging Rpt #:	137282
Injurious Water Quality:	Not Reported		

Map ID:	17		
Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	294004	Borehole Depth (ft):	20
Proposed Use:	Environmental Soil Boring	Plugging Rpt #:	137286
Injurious Water Quality:	Not Reported		

Map ID:	17		
Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	308602	Borehole Depth (ft):	25
Proposed Use:	Monitor	Plugging Rpt #:	86073
Injurious Water Quality:	Not Reported		

Map ID:	17		
Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	294000	Borehole Depth (ft):	5
Proposed Use:	Environmental Soil Boring	Plugging Rpt #:	137283
Injurious Water Quality:	Not Reported		

Map ID:	17		
Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	308601	Borehole Depth (ft):	20
Proposed Use:	Monitor	Plugging Rpt #:	86074
Injurious Water Quality:	Not Reported		

Map ID: 17

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	308600	Borehole Depth (ft):	20
Proposed Use:	Monitor	Plugging Rpt #:	86075
Injurious Water Quality:	Not Reported		

Map ID:	17		
Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	294011	Borehole Depth (ft):	20
Proposed Use:	Environmental Soil Boring	Plugging Rpt #:	137290
Injurious Water Quality:	Not Reported		

Map ID:	17		
Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	294008	Borehole Depth (ft):	20
Proposed Use:	Environmental Soil Boring	Plugging Rpt #:	137289
Injurious Water Quality:	Not Reported		

Map ID:	17		
Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	294005	Borehole Depth (ft):	20
Proposed Use:	Environmental Soil Boring	Plugging Rpt #:	137287
Injurious Water Quality:	Not Reported		

Map ID:	17		
Database:	Groundwater Database	Well #:	6417503
Primary Water Use:	Unused	Elevation (ft):	19
Well Depth (ft):	638	Observation Type:	Miscellaneous Measurements
Water Quality Review:	Yes	Aquifer:	112CHCTL - Chicot Aquifer, Lower
Well Type:	Withdrawal of Water		

Map ID:	17		
Database:	Submitted Drillers Reports Database (Plugged)	Plugging Rpt #:	130127
Well Report #:	245827	Borehole Depth (ft):	330
Well Type:	Industrial		

Map ID:	17		
Database:	Submitted Drillers Reports Database	Well Type:	Replacement
Well Report #:	245830	Borehole Depth (ft):	260
Proposed Use:	Industrial	Plugging Rpt #:	Not Reported
Injurious Water Quality:	no		

Map ID: 17

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Database:	Submitted Drillers Reports Database	Well Type:	New Well
Well Report #:	245827	Borehole Depth (ft):	330
Proposed Use:	Industrial	Plugging Rpt #:	130127
Injurious Water Quality:	no		

Map ID:	18	Well #:	6417504
Database:	Groundwater Database	Elevation (ft):	5
Primary Water Use:	Unused	Observation Type:	Miscellaneous Measurements
Well Depth (ft):	93	Aquifer:	112CHCTU - Chicot Aquifer, Upper
Water Quality Review:	Yes		
Well Type:	Withdrawal of Water		

Map ID:	20	Well #:	6417911
Database:	Groundwater Database	Elevation (ft):	19
Primary Water Use:	Industrial	Observation Type:	Miscellaneous Measurements
Well Depth (ft):	98	Aquifer:	112CHCTU - Chicot Aquifer, Upper
Water Quality Review:	No		
Well Type:	Withdrawal of Water		

Map ID:	20	Well Type:	New Well
Database:	Submitted Drillers Reports Database	Borehole Depth (ft):	101
Well Report #:	191522	Plugging Rpt #:	Not Reported
Proposed Use:	Domestic		
Injurious Water Quality:	Not Reported		

Map ID:	21	Well Type:	New Well
Database:	Submitted Drillers Reports Database	Borehole Depth (ft):	345
Well Report #:	263949	Plugging Rpt #:	Not Reported
Proposed Use:	Domestic		
Injurious Water Quality:	no		

Map ID:	21	Well Type:	New Well
Database:	Submitted Drillers Reports Database	Borehole Depth (ft):	340
Well Report #:	155700	Plugging Rpt #:	Not Reported
Proposed Use:	Domestic		
Injurious Water Quality:	Not Reported		

Map ID:	21	Fid:	25970
Database:	Well Report Database	Edr site i:	155700
Rec id:	25966	Ownerwell:	No Data
Owner:	Snowden, Nathan	Waddress:	5222 Bayside Dr., Baytown , TX 77520
Address:	5222 Bayside Dr., Baytown , TX 77520	County:	Chambers
Grid:	64-17-8		
Lat:	29 39 26 N		

GEOCHECK VERSION 2.1 STATE DATABASE WELL INFORMATION

Long:	094 55 09 W	Elevation:	No Data
Gpsused:	Not Given	Typeofwork:	New Well
Propuse:	Domestic	Sdate:	Not Reported
Completedd:	Not Reported	Diameter:	8 1/2 in From Surface To 320 ft
Dmethod:	Mud Rotary	Bcompleteio:	Straight Wall
Packedfrom:	Not Reported	Packsizes:	Not Reported
Finterval:	From 0 ft to 100 ft with 15 (#sacks and material)	Tinterval:	No Data
Sinterval:	No Data	Cementedby:	JW Greak
Usedmethod:	Pumped	Propertyli:	15 ft
Contaminat:	100 ft	Variance:	No Data
Verrimetho:	No Data	Staticleve:	62 ft. below land surface on 10/20/2007
Surface:	Alternative Procedure Used	Packers:	None
Flow:	No Data	Typepump:	Submersible
Cementinwe:	No Data	Welltests:	Jetted\ Estimated
Pumpbowl:	120 ft	Stratadep:	No Data
Yield:	65 GPM with 10 ft drawdown after 1 hour	Undesirabl:	No Data
Watertype:	No Data	Companyadd:	PO Box 92
Chemicalma:	No	Licensenum:	2130
Companynam:	Greak Water Well	Dsignature:	No Data
Ccitystate:	Liberty , TX 77575	Comments:	^eo
Wsignature:	J. W. Greak		
Regnum:	No Data		
Site id:	TXDOL2000025971		

Map ID:	21		
Database:	Brackish Resources Aquifer Characterization System Database		
Well ID:	67039	Well Type:	Withdrawal of Water
Well Use:	Domestic		
Data Source:	TDLR Digital Water Well Reports		
Well Depth (ft):	-99999	Well Bottom Elevation (ft):	-99999
Total Hole Depth (ft):	540	Bottom Hole Elevation (ft):	-99999
Drill Date:	7/17/2015	Kelly Bushing Height (ft):	0
Remarks:	N/A		

Map ID:	21		
Database:	Submitted Drillers Reports Database		
Well Report #:	402384	Well Type:	New Well
Proposed Use:	Domestic	Borehole Depth (ft):	540
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

Map ID:	1		
Surface ID:	154076	Well Number:	Not Reported
Bottom ID:	154076	API #:	42201
Current Wells #:	32	Well Type:	Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	2		
Surface ID:	154097	Well Number:	Not Reported
Bottom ID:	154097	API #:	42201
Current Wells #:	24	Well Type:	Plugged Oil Well

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Current Wells #:	28	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	10	Well Number:	07071
Surface ID:	154093	API #:	4220107071
Bottom ID:	154093	Well Type:	Plugged Oil Well
Current Wells #:	45	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	11	Well Number:	Not Reported
Surface ID:	154071	API #:	42201
Bottom ID:	154071	Well Type:	Plugged Oil Well
Current Wells #:	15	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	12	Well Number:	07050
Surface ID:	154351	API #:	4220107050
Bottom ID:	154351	Well Type:	Oil Well
Current Wells #:	46	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	13	Well Number:	Not Reported
Surface ID:	154359	API #:	42201
Bottom ID:	154359	Well Type:	Plugged Oil Well
Current Wells #:	24	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	14	Well Number:	32178
Surface ID:	154347	API #:	4220132178
Bottom ID:	154347	Well Type:	Permitted Location
Current Wells #:	66	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	15	Well Number:	32354
Surface ID:	154550	API #:	4220132354
Bottom ID:	154550	Well Type:	Permitted Location
Current Wells #:	76	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	16	Well Number:	Not Reported
Surface ID:	154514		

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Bottom ID:	154514	API #:	42201
Current Wells #:	34	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	17	Well Number:	Not Reported
Surface ID:	154075	API #:	42201
Bottom ID:	154075	Well Type:	Oil Well
Current Wells #:	30	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	18	Well Number:	Not Reported
Surface ID:	154084	API #:	42201
Bottom ID:	154084	Well Type:	Plugged Oil Well
Current Wells #:	31	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	19	Well Number:	Not Reported
Surface ID:	154348	API #:	42201
Bottom ID:	154348	Well Type:	Dry Hole
Current Wells #:	31	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	20	Well Number:	07077
Surface ID:	154094	API #:	4220107077
Bottom ID:	154094	Well Type:	Plugged Oil Well
Current Wells #:	38	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	21	Well Number:	Not Reported
Surface ID:	154349	API #:	42201
Bottom ID:	154349	Well Type:	Plugged Oil Well
Current Wells #:	13	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	22	Well Number:	32353
Surface ID:	154547	API #:	4220132353
Bottom ID:	154547	Well Type:	Permitted Location
Current Wells #:	61	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	23		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154511	Well Number:	Not Reported
Bottom ID:	154511	API #:	42201
Current Wells #:	18	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	24	Well Number:	Not Reported
Surface ID:	154394	API #:	42201
Bottom ID:	154394	Well Type:	Plugged Oil Well
Current Wells #:	14	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	25	Well Number:	Not Reported
Surface ID:	154512	API #:	42201
Bottom ID:	154512	Well Type:	Plugged Oil Well
Current Wells #:	25	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	26	Well Number:	Not Reported
Surface ID:	154520	API #:	42201
Bottom ID:	154520	Well Type:	Plugged Oil Well
Current Wells #:	38	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	27	Well Number:	Not Reported
Surface ID:	154522	API #:	42201
Bottom ID:	154522	Well Type:	Dry Hole
Current Wells #:	40	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	28	Well Number:	07813
Surface ID:	154543	API #:	4220107813
Bottom ID:	154543	Well Type:	Plugged Oil Well
Current Wells #:	35	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	29	Well Number:	Not Reported
Surface ID:	154515	API #:	42201
Bottom ID:	154515	Well Type:	Dry Hole
Current Wells #:	37	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID: 30

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154129	Well Number:	07074
Bottom ID:	154129	API #:	4220107074
Current Wells #:	47	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	31	Well Number:	32271
Surface ID:	154566	API #:	4220132271D1
Bottom ID:	154566	Well Type:	Oil Well
Current Wells #:	55	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	32	Well Number:	Not Reported
Surface ID:	154518	API #:	42201
Bottom ID:	154518	Well Type:	Plugged Oil Well
Current Wells #:	64	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	33	Well Number:	Not Reported
Surface ID:	154130	API #:	42201
Bottom ID:	154130	Well Type:	Plugged Oil Well
Current Wells #:	9	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	34	Well Number:	Not Reported
Surface ID:	154169	API #:	42201
Bottom ID:	154169	Well Type:	Dry Hole
Current Wells #:	4	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	35	Well Number:	Not Reported
Surface ID:	154090	API #:	42201
Bottom ID:	154090	Well Type:	Plugged Oil Well
Current Wells #:	17	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	36	Well Number:	Not Reported
Surface ID:	154395	API #:	42201
Bottom ID:	154395	Well Type:	Plugged Oil Well
Current Wells #:	10	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	37		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154144	Well Number:	Not Reported
Bottom ID:	154144	API #:	42201
Current Wells #:	33	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	38	Well Number:	06938
Surface ID:	154381	API #:	4220106938
Bottom ID:	154381	Well Type:	Plugged Oil Well
Current Wells #:	2	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	39	Well Number:	06934
Surface ID:	154392	API #:	4220106934
Bottom ID:	154392	Well Type:	Plugged Oil Well
Current Wells #:	35	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	40	Well Number:	07298
Surface ID:	154509	API #:	4220107298
Bottom ID:	154509	Well Type:	Plugged Oil Well
Current Wells #:	3B	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	41	Well Number:	Not Reported
Surface ID:	154126	API #:	42201
Bottom ID:	154126	Well Type:	Oil Well
Current Wells #:	46	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	42	Well Number:	31928
Surface ID:	154124	API #:	4220131928
Bottom ID:	154124	Well Type:	Oil Well
Current Wells #:	49	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	43	Well Number:	Not Reported
Surface ID:	154143	API #:	42201
Bottom ID:	154143	Well Type:	Plugged Oil Well
Current Wells #:	34	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	44		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154516	Well Number:	Not Reported
Bottom ID:	154516	API #:	42201
Current Wells #:	30	Well Type:	Dry Hole
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	45	Well Number:	Not Reported
Surface ID:	154145	API #:	42201
Bottom ID:	154145	Well Type:	Dry Hole
Current Wells #:	20	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	46	Well Number:	Not Reported
Surface ID:	154524	API #:	42201
Bottom ID:	154524	Well Type:	Dry Hole
Current Wells #:	34	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	47	Well Number:	31913
Surface ID:	154128	API #:	4220131913
Bottom ID:	154128	Well Type:	Permitted Location
Current Wells #:	62	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	48	Well Number:	Not Reported
Surface ID:	154386	API #:	42201
Bottom ID:	154386	Well Type:	Oil Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	49	Well Number:	07825
Surface ID:	154521	API #:	4220107825
Bottom ID:	154521	Well Type:	Plugged Oil Well
Current Wells #:	32	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	50	Well Number:	Not Reported
Surface ID:	154519	API #:	42201
Bottom ID:	154519	Well Type:	Plugged Oil Well
Current Wells #:	65	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	51		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154139	Well Number:	Not Reported
Bottom ID:	154139	API #:	42201
Current Wells #:	8	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	52	Well Number:	Not Reported
Surface ID:	154137	API #:	42201
Bottom ID:	154137	Well Type:	Plugged Oil Well
Current Wells #:	23	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	53	Well Number:	Not Reported
Surface ID:	154525	API #:	42201
Bottom ID:	154525	Well Type:	Dry Hole
Current Wells #:	21	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	54	Well Number:	Not Reported
Surface ID:	154385	API #:	42201
Bottom ID:	154385	Well Type:	Plugged Oil Well
Current Wells #:	5	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	55	Well Number:	Not Reported
Surface ID:	154142	API #:	42201
Bottom ID:	154142	Well Type:	Plugged Oil Well
Current Wells #:	31	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	56	Well Number:	Not Reported
Surface ID:	154131	API #:	42201
Bottom ID:	154131	Well Type:	Plugged Oil Well
Current Wells #:	5	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	57	Well Number:	Not Reported
Surface ID:	154135	API #:	42201
Bottom ID:	154135	Well Type:	Plugged Oil Well
Current Wells #:	29	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	58		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154136	Well Number:	07092
Bottom ID:	154136	API #:	4220107092
Current Wells #:	39	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	59	Well Number:	Not Reported
Surface ID:	154132	API #:	42201
Bottom ID:	154132	Well Type:	Plugged Oil Well
Current Wells #:	16	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	60	Well Number:	Not Reported
Surface ID:	154538	API #:	42201
Bottom ID:	154538	Well Type:	Plugged Oil Well
Current Wells #:	45	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	61	Well Number:	Not Reported
Surface ID:	154382	API #:	42201
Bottom ID:	154382	Well Type:	Plugged Oil Well
Current Wells #:	6	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	62	Well Number:	Not Reported
Surface ID:	154138	API #:	42201
Bottom ID:	154138	Well Type:	Plugged Oil Well
Current Wells #:	7	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	63	Well Number:	Not Reported
Surface ID:	154384	API #:	42201
Bottom ID:	154384	Well Type:	Dry Hole
Current Wells #:	2	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	64	Well Number:	Not Reported
Surface ID:	154133	API #:	42201
Bottom ID:	154133	Well Type:	Plugged Oil Well
Current Wells #:	11	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	65		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154389	Well Number:	07056
Bottom ID:	154389	API #:	4220107056
Current Wells #:	48	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	66	Well Number:	Not Reported
Surface ID:	154523	API #:	42201
Bottom ID:	154523	Well Type:	Plugged Oil Well
Current Wells #:	66	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	67	Well Number:	Not Reported
Surface ID:	154387	API #:	42201
Bottom ID:	154387	Well Type:	Oil Well
Current Wells #:	2	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	68	Well Number:	Not Reported
Surface ID:	154125	API #:	42201
Bottom ID:	154125	Well Type:	Oil Well
Current Wells #:	40	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	69	Well Number:	Not Reported
Surface ID:	154383	API #:	42201
Bottom ID:	154383	Well Type:	Plugged Oil Well
Current Wells #:	4	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	70	Well Number:	32272
Surface ID:	154567	API #:	4220132272
Bottom ID:	154567	Well Type:	Oil Well
Current Wells #:	54	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	71	Well Number:	Not Reported
Surface ID:	152747	API #:	42201
Bottom ID:	152747	Well Type:	Dry Hole
Current Wells #:	24	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	72		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154545	Well Number:	32350
Bottom ID:	154545	API #:	4220132350
Current Wells #:	58	Well Type:	Permitted Location
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	73	Well Number:	Not Reported
Surface ID:	154099	API #:	42201
Bottom ID:	154099	Well Type:	Plugged Oil Well
Current Wells #:	45	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	74	Well Number:	Not Reported
Surface ID:	154134	API #:	42201
Bottom ID:	154134	Well Type:	Plugged Oil Well
Current Wells #:	22	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	75	Well Number:	Not Reported
Surface ID:	154121	API #:	42201
Bottom ID:	154121	Well Type:	Dry Hole
Current Wells #:	19	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	76	Well Number:	32226
Surface ID:	154397	API #:	4220132226
Bottom ID:	154397	Well Type:	Oil Well
Current Wells #:	52	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	77	Well Number:	07084
Surface ID:	154148	API #:	4220107084
Bottom ID:	154148	Well Type:	Plugged Oil Well
Current Wells #:	43	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	78	Well Number:	Not Reported
Surface ID:	154120	API #:	42201
Bottom ID:	154120	Well Type:	Plugged Oil Well
Current Wells #:	24	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	79		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154391	Well Number:	06905
Bottom ID:	154391	API #:	4220106905
Current Wells #:	8	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	80	Well Number:	32720
Surface ID:	1121764	API #:	4220132720D1
Bottom ID:	1121764	Well Type:	Gas Well
Current Wells #:	48	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	81	Well Number:	Not Reported
Surface ID:	154141	API #:	42201
Bottom ID:	154141	Well Type:	Plugged Oil Well
Current Wells #:	23	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	82	Well Number:	Not Reported
Surface ID:	154109	API #:	42201
Bottom ID:	154109	Well Type:	Plugged Oil Well
Current Wells #:	25	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	83	Well Number:	Not Reported
Surface ID:	154146	API #:	42201
Bottom ID:	154146	Well Type:	Dry Hole
Current Wells #:	9	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	84	Well Number:	Not Reported
Surface ID:	154396	API #:	42201
Bottom ID:	154396	Well Type:	Plugged Oil Well
Current Wells #:	32	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	85	Well Number:	Not Reported
Surface ID:	154151	API #:	42201
Bottom ID:	154151	Well Type:	Dry Hole
Current Wells #:	29	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	86		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID: 152734
 Bottom ID: 152734
 Current Wells #: 2
 Radioactive: Not Reported

Well Number: 07457
 API #: 4220107457
 Well Type: Oil Well
 Side Track: Not Reported

Map ID: 87
 Surface ID: 154100
 Bottom ID: 154100
 Current Wells #: 41
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201
 Well Type: Plugged Oil Well
 Side Track: Not Reported

Map ID: 88
 Surface ID: 154101
 Bottom ID: 154101
 Current Wells #: 44
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201
 Well Type: Plugged Oil Well
 Side Track: Not Reported

Map ID: 89
 Surface ID: 154150
 Bottom ID: 154150
 Current Wells #: 28
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201
 Well Type: Plugged Oil Well
 Side Track: Not Reported

Map ID: 90
 Surface ID: 154118
 Bottom ID: 154118
 Current Wells #: 31
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201
 Well Type: Plugged Oil Well
 Side Track: Not Reported

Map ID: 91
 Surface ID: 154388
 Bottom ID: 154388
 Current Wells #: 7
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201
 Well Type: Oil Well
 Side Track: Not Reported

Map ID: 92
 Surface ID: 154551
 Bottom ID: 154551
 Current Wells #: 59
 Radioactive: Not Reported

Well Number: 32351
 API #: 4220132351D1
 Well Type: Permitted Location
 Side Track: D1

Map ID: 93

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154110	Well Number:	Not Reported
Bottom ID:	154110	API #:	42201
Current Wells #:	12	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	94	Well Number:	Not Reported
Surface ID:	154149	API #:	42201
Bottom ID:	154149	Well Type:	Plugged Oil Well
Current Wells #:	35	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	95	Well Number:	Not Reported
Surface ID:	154147	API #:	42201
Bottom ID:	154147	Well Type:	Dry Hole
Current Wells #:	26	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	96	Well Number:	32352
Surface ID:	154546	API #:	4220132352
Bottom ID:	154546	Well Type:	Permitted Location
Current Wells #:	60	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	97	Well Number:	32316
Surface ID:	154553	API #:	4220132316D1
Bottom ID:	154553	Well Type:	Oil Well
Current Wells #:	57	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	98	Well Number:	Not Reported
Surface ID:	154127	API #:	42201
Bottom ID:	154127	Well Type:	Oil Well
Current Wells #:	42	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	99	Well Number:	07057
Surface ID:	154418	API #:	4220107057
Bottom ID:	154418	Well Type:	Oil Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	100		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154140	Well Number:	Not Reported
Bottom ID:	154140	API #:	42201
Current Wells #:	6	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	101	Well Number:	32315
Surface ID:	154569	API #:	4220132315D1
Bottom ID:	154569	Well Type:	Oil Well
Current Wells #:	56	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	102	Well Number:	Not Reported
Surface ID:	154393	API #:	42201
Bottom ID:	154393	Well Type:	Plugged Oil Well
Current Wells #:	5	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	103	Well Number:	Not Reported
Surface ID:	154111	API #:	42201
Bottom ID:	154111	Well Type:	Plugged Oil Well
Current Wells #:	22	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	104	Well Number:	06899
Surface ID:	154540	API #:	4220106899
Bottom ID:	154540	Well Type:	Plugged Oil Well
Current Wells #:	11	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	105	Well Number:	31795
Surface ID:	154419	API #:	4220131795
Bottom ID:	154419	Well Type:	Oil Well
Current Wells #:	2	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	106	Well Number:	Not Reported
Surface ID:	154116	API #:	42201
Bottom ID:	154116	Well Type:	Plugged Oil Well
Current Wells #:	26	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	107		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154412	Well Number:	Not Reported
Bottom ID:	154412	API #:	42201
Current Wells #:	10	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	108	Well Number:	Not Reported
Surface ID:	154119	API #:	42201
Bottom ID:	154119	Well Type:	Plugged Oil Well
Current Wells #:	32	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	109	Well Number:	32957
Surface ID:	1308316	API #:	4220132957
Bottom ID:	1308316	Well Type:	Permitted Location
Current Wells #:	57	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	110	Well Number:	Not Reported
Surface ID:	154413	API #:	42201
Bottom ID:	154413	Well Type:	Plugged Oil Well
Current Wells #:	3	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	111	Well Number:	Not Reported
Surface ID:	154117	API #:	42201
Bottom ID:	154117	Well Type:	Plugged Oil Well
Current Wells #:	22	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	112	Well Number:	Not Reported
Surface ID:	154104	API #:	42201
Bottom ID:	154104	Well Type:	Dry Hole
Current Wells #:	5	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	113	Well Number:	Not Reported
Surface ID:	154557	API #:	42201
Bottom ID:	154557	Well Type:	Oil Well
Current Wells #:	9	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID: 114

**GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION**

Surface ID:	154414	Well Number:	Not Reported
Bottom ID:	154414	API #:	42201
Current Wells #:	2	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	115	Well Number:	Not Reported
Surface ID:	154398	API #:	42201
Bottom ID:	154398	Well Type:	Plugged Oil Well
Current Wells #:	17	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	116	Well Number:	Not Reported
Surface ID:	154415	API #:	42201
Bottom ID:	154415	Well Type:	Plugged Oil Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	117	Well Number:	07445
Surface ID:	152720	API #:	4220107445
Bottom ID:	152720	Well Type:	Oil Well
Current Wells #:	5	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	118	Well Number:	Not Reported
Surface ID:	154105	API #:	42201
Bottom ID:	154105	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	119	Well Number:	31934
Surface ID:	154420	API #:	4220131934
Bottom ID:	154420	Well Type:	Oil Well
Current Wells #:	21	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	120	Well Number:	Not Reported
Surface ID:	154106	API #:	42201
Bottom ID:	154106	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	121		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID: 154527
 Bottom ID: 154527
 Current Wells #: 1
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201 D1
 Well Type: Dry Hole
 Side Track: D1

Map ID: 122
 Surface ID: 154055
 Bottom ID: 154055
 Current Wells #: 13
 Radioactive: Not Reported

Well Number: 06944
 API #: 4220106944
 Well Type: Oil Well
 Side Track: Not Reported

Map ID: 123
 Surface ID: 154416
 Bottom ID: 154416
 Current Wells #: 4
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201
 Well Type: Plugged Oil Well
 Side Track: Not Reported

Map ID: 124
 Surface ID: 154399
 Bottom ID: 154399
 Current Wells #: 15
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201
 Well Type: Plugged Oil Well
 Side Track: Not Reported

Map ID: 125
 Surface ID: 154112
 Bottom ID: 154112
 Current Wells #: 11
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201
 Well Type: Plugged Oil Well
 Side Track: Not Reported

Map ID: 126
 Surface ID: 154539
 Bottom ID: 154539
 Current Wells #: 22
 Radioactive: Not Reported

Well Number: 31926
 API #: 4220131926
 Well Type: Oil Well
 Side Track: Not Reported

Map ID: 127
 Surface ID: 154115
 Bottom ID: 154115
 Current Wells #: 2
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201
 Well Type: Plugged Oil Well
 Side Track: Not Reported

Map ID: 128

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154400	Well Number:	Not Reported
Bottom ID:	154400	API #:	42201
Current Wells #:	16	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	129	Well Number:	Not Reported
Surface ID:	154122	API #:	42201
Bottom ID:	154122	Well Type:	Dry Hole
Current Wells #:	4	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	130	Well Number:	Not Reported
Surface ID:	154421	API #:	42201
Bottom ID:	154421	Well Type:	Dry Hole
Current Wells #:	6	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	131	Well Number:	Not Reported
Surface ID:	154401	API #:	42201
Bottom ID:	154401	Well Type:	Plugged Oil Well
Current Wells #:	6	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	132	Well Number:	06900
Surface ID:	154575	API #:	4220106900
Bottom ID:	154575	Well Type:	Plugged Oil Well
Current Wells #:	10	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	133	Well Number:	Not Reported
Surface ID:	154107	API #:	42201
Bottom ID:	154107	Well Type:	Oil Well
Current Wells #:	2	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	134	Well Number:	Not Reported
Surface ID:	152748	API #:	42201
Bottom ID:	152748	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID: 135

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154571	Well Number:	06943
Bottom ID:	154571	API #:	4220106943D1
Current Wells #:	18	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	D1

Map ID:	136	Well Number:	31793
Surface ID:	154554	API #:	4220131793
Bottom ID:	154554	Well Type:	Oil Well
Current Wells #:	20	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	137	Well Number:	07460
Surface ID:	152735	API #:	4220107460
Bottom ID:	152735	Well Type:	Oil Well
Current Wells #:	3	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	138	Well Number:	Not Reported
Surface ID:	154402	API #:	42201
Bottom ID:	154402	Well Type:	Plugged Oil Well
Current Wells #:	5	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	139	Well Number:	Not Reported
Surface ID:	154417	API #:	42201
Bottom ID:	154417	Well Type:	Dry Hole
Current Wells #:	2	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	140	Well Number:	Not Reported
Surface ID:	154405	API #:	42201
Bottom ID:	154405	Well Type:	Plugged Oil Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	141	Well Number:	06945
Surface ID:	154555	API #:	4220106945
Bottom ID:	154555	Well Type:	Oil Well
Current Wells #:	14	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID: 142

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154410	Well Number:	Not Reported
Bottom ID:	154410	API #:	42201
Current Wells #:	6	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	143	Well Number:	Not Reported
Surface ID:	154403	API #:	42201
Bottom ID:	154403	Well Type:	Plugged Oil Well
Current Wells #:	11	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	144	Well Number:	07501
Surface ID:	154056	API #:	4220107501
Bottom ID:	154056	Well Type:	Plugged Oil Well
Current Wells #:	13	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	145	Well Number:	Not Reported
Surface ID:	154114	API #:	42201
Bottom ID:	154114	Well Type:	Plugged Oil Well
Current Wells #:	6	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	146	Well Number:	Not Reported
Surface ID:	154409	API #:	42201
Bottom ID:	154409	Well Type:	Plugged Oil Well
Current Wells #:	2	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	147	Well Number:	07499
Surface ID:	154057	API #:	4220107499
Bottom ID:	154057	Well Type:	Injection/Disposal from Oil
Current Wells #:	16	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	148	Well Number:	Not Reported
Surface ID:	154556	API #:	42201
Bottom ID:	154556	Well Type:	Oil Well
Current Wells #:	17	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID: 149

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154406	Well Number:	Not Reported
Bottom ID:	154406	API #:	42201
Current Wells #:	5	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	150	Well Number:	Not Reported
Surface ID:	154123	API #:	42201
Bottom ID:	154123	Well Type:	Dry Hole
Current Wells #:	3	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	151	Well Number:	Not Reported
Surface ID:	154528	API #:	42201
Bottom ID:	154528	Well Type:	Canceled Location
Current Wells #:	2	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	152	Well Number:	Not Reported
Surface ID:	154408	API #:	42201
Bottom ID:	154408	Well Type:	Plugged Oil Well
Current Wells #:	7	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	153	Well Number:	Not Reported
Surface ID:	152749	API #:	42201
Bottom ID:	152749	Well Type:	Dry Hole
Current Wells #:	6	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	154	Well Number:	Not Reported
Surface ID:	154404	API #:	42201
Bottom ID:	154404	Well Type:	Plugged Oil Well
Current Wells #:	7	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	155	Well Number:	Not Reported
Surface ID:	154407	API #:	42201
Bottom ID:	154407	Well Type:	Plugged Oil Well
Current Wells #:	4	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID: 156

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154113	Well Number:	Not Reported
Bottom ID:	154113	API #:	42201
Current Wells #:	3	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	157	Well Number:	07461
Surface ID:	152721	API #:	4220107461
Bottom ID:	152721	Well Type:	Oil Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	158	Well Number:	Not Reported
Surface ID:	154108	API #:	42201
Bottom ID:	154108	Well Type:	Permitted Location
Current Wells #:	4	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	159	Well Number:	Not Reported
Surface ID:	154529	API #:	42201
Bottom ID:	154529	Well Type:	Canceled Location
Current Wells #:	76	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	160	Well Number:	Not Reported
Surface ID:	152740	API #:	42201
Bottom ID:	152740	Well Type:	Oil Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	161	Well Number:	Not Reported
Surface ID:	154102	API #:	42201
Bottom ID:	154102	Well Type:	Plugged Oil Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	162	Well Number:	Not Reported
Surface ID:	154411	API #:	42201
Bottom ID:	154411	Well Type:	Dry Hole
Current Wells #:	9	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	163		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID: 152751
 Bottom ID: 152751
 Current Wells #: 1
 Radioactive: Not Reported

Well Number: 07470
 API #: 4220107470D1
 Well Type: Oil Well
 Side Track: D1

Map ID: 164
 Surface ID: 154058
 Bottom ID: 154058
 Current Wells #: 24
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201
 Well Type: Oil Well
 Side Track: Not Reported

Map ID: 165
 Surface ID: 154103
 Bottom ID: 154103
 Current Wells #: Not Reported
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201
 Well Type: Oil Well
 Side Track: Not Reported

Map ID: 166
 Surface ID: 152722
 Bottom ID: 152722
 Current Wells #: 2
 Radioactive: Not Reported

Well Number: 07489
 API #: 4220107489D1
 Well Type: Plugged Oil Well
 Side Track: D1

Map ID: 167
 Surface ID: 154065
 Bottom ID: 154065
 Current Wells #: 1
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201
 Well Type: Canceled Location
 Side Track: Not Reported

Map ID: 168
 Surface ID: 152739
 Bottom ID: 152739
 Current Wells #: 3
 Radioactive: Not Reported

Well Number: 07466
 API #: 4220107466
 Well Type: Plugged Oil Well
 Side Track: Not Reported

Map ID: 169
 Surface ID: 154426
 Bottom ID: 154426
 Current Wells #: 3
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201 D1
 Well Type: Oil Well
 Side Track: D1

Map ID: 170

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	152745	Well Number:	Not Reported
Bottom ID:	152745	API #:	42201
Current Wells #:	4	Well Type:	Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	171	Well Number:	Not Reported
Surface ID:	154064	API #:	42201 D1
Bottom ID:	154064	Well Type:	Plugged Oil Well
Current Wells #:	15	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	172	Well Number:	Not Reported
Surface ID:	154526	API #:	42201
Bottom ID:	154526	Well Type:	Dry Hole
Current Wells #:	6	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	173	Well Number:	Not Reported
Surface ID:	154436	API #:	42201
Bottom ID:	154436	Well Type:	Plugged Oil Well
Current Wells #:	8	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	174	Well Number:	Not Reported
Surface ID:	154066	API #:	42201
Bottom ID:	154066	Well Type:	Canceled Location
Current Wells #:	3	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	175	Well Number:	Not Reported
Surface ID:	154433	API #:	42201
Bottom ID:	154433	Well Type:	Dry Hole
Current Wells #:	3	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	176	Well Number:	07497
Surface ID:	154563	API #:	4220107497D1
Bottom ID:	154563	Well Type:	Plugged Oil Well
Current Wells #:	14	Side Track:	D1
Radioactive:	Not Reported		

Map ID: 177

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154423	Well Number:	32010
Bottom ID:	154423	API #:	4220132010D1
Current Wells #:	29	Well Type:	Permitted Location
Radioactive:	Not Reported	Side Track:	D1

Map ID:	178	Well Number:	Not Reported
Surface ID:	154432	API #:	42201
Bottom ID:	154432	Well Type:	Dry Hole
Current Wells #:	2	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	179	Well Number:	Not Reported
Surface ID:	154431	API #:	42201
Bottom ID:	154431	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	180	Well Number:	07492
Surface ID:	154564	API #:	4220107492
Bottom ID:	154564	Well Type:	Plugged Oil Well
Current Wells #:	11	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	181	Well Number:	Not Reported
Surface ID:	154427	API #:	42201 D1
Bottom ID:	154427	Well Type:	Plugged Oil Well
Current Wells #:	6	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	182	Well Number:	Not Reported
Surface ID:	154562	API #:	42201 D1
Bottom ID:	154562	Well Type:	Oil Well
Current Wells #:	13	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	183	Well Number:	07477
Surface ID:	154255	API #:	4220107477
Bottom ID:	154255	Well Type:	Plugged Oil Well
Current Wells #:	4	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	184		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID: 154424
 Bottom ID: 154424
 Current Wells #: 10
 Radioactive: Not Reported

Well Number: 07491
 API #: 4220107491D1
 Well Type: Plugged Oil Well
 Side Track: D1

Map ID: 185
 Surface ID: 154428
 Bottom ID: 154428
 Current Wells #: 7
 Radioactive: Not Reported

Well Number: 80754
 API #: 4220180754
 Well Type: Plugged Oil Well
 Side Track: Not Reported

Map ID: 186
 Surface ID: 154439
 Bottom ID: 154439
 Current Wells #: 12
 Radioactive: Not Reported

Well Number: 80759
 API #: 4220180759D1
 Well Type: Plugged Oil Well
 Side Track: D1

Map ID: 187
 Surface ID: 154576
 Bottom ID: 154576
 Current Wells #: 7
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201 D1
 Well Type: Oil Well
 Side Track: D1

Map ID: 188
 Surface ID: 154154
 Bottom ID: 154154
 Current Wells #: 1
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201
 Well Type: Dry Hole
 Side Track: Not Reported

Map ID: 189
 Surface ID: 154435
 Bottom ID: 154435
 Current Wells #: 1
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201
 Well Type: Plugged Oil Well
 Side Track: Not Reported

Map ID: 190
 Surface ID: 154578
 Bottom ID: 154578
 Current Wells #: 8
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201 D1
 Well Type: Oil Well
 Side Track: D1

Map ID: 191

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID: 154425
 Bottom ID: 154425
 Current Wells #: 28
 Radioactive: Not Reported

Well Number: 31910
 API #: 4220131910D1
 Well Type: Oil Well
 Side Track: D1

Map ID: 192
 Surface ID: 154577
 Bottom ID: 154577
 Current Wells #: 2
 Radioactive: Not Reported

Well Number: 80752
 API #: 4220180752D1
 Well Type: Plugged Oil Well
 Side Track: D1

Map ID: 193
 Surface ID: 154434
 Bottom ID: 154434
 Current Wells #: 3
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201
 Well Type: Dry Hole
 Side Track: Not Reported

Map ID: 194
 Surface ID: 152762
 Bottom ID: 152762
 Current Wells #: 4
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201
 Well Type: Oil Well
 Side Track: Not Reported

Map ID: 195
 Surface ID: 152763
 Bottom ID: 152763
 Current Wells #: 3
 Radioactive: Not Reported

Well Number: 07471
 API #: 4220107471
 Well Type: Plugged Oil Well
 Side Track: Not Reported

Map ID: 196
 Surface ID: 154430
 Bottom ID: 154430
 Current Wells #: 9
 Radioactive: Not Reported

Well Number: 80756
 API #: 4220180756D1
 Well Type: Plugged Oil Well
 Side Track: D1

Map ID: 197
 Surface ID: 154437
 Bottom ID: 154437
 Current Wells #: 2
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42201
 Well Type: Dry Hole
 Side Track: Not Reported

Map ID: 198

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154059	Well Number:	Not Reported
Bottom ID:	154059	API #:	42201
Current Wells #:	Not Reported	Well Type:	Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	199	Well Number:	Not Reported
Surface ID:	154157	API #:	42201
Bottom ID:	154157	Well Type:	Oil Well
Current Wells #:	3	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	200	Well Number:	30023
Surface ID:	154422	API #:	4220130023D1
Bottom ID:	154422	Well Type:	Plugged Oil Well
Current Wells #:	27	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	201	Well Number:	Not Reported
Surface ID:	154429	API #:	42201
Bottom ID:	154429	Well Type:	Plugged Oil Well
Current Wells #:	12	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	202	Well Number:	07474
Surface ID:	154530	API #:	4220107474
Bottom ID:	154530	Well Type:	Plugged Oil Well
Current Wells #:	5	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	203	Well Number:	07494
Surface ID:	154152	API #:	4220107494
Bottom ID:	154152	Well Type:	Plugged Oil Well
Current Wells #:	19	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	204	Well Number:	07495
Surface ID:	154061	API #:	4220107495
Bottom ID:	154061	Well Type:	Plugged Oil Well
Current Wells #:	18	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	205		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154158	Well Number:	07478
Bottom ID:	154158	API #:	4220107478
Current Wells #:	6	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	206	Well Number:	Not Reported
Surface ID:	154060	API #:	42201
Bottom ID:	154060	Well Type:	Oil Well
Current Wells #:	Not Reported	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	207	Well Number:	Not Reported
Surface ID:	154062	API #:	42201
Bottom ID:	154062	Well Type:	Plugged Oil Well
Current Wells #:	2	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	208	Well Number:	Not Reported
Surface ID:	154532	API #:	42201
Bottom ID:	154532	Well Type:	Oil Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	209	Well Number:	07475
Surface ID:	154531	API #:	4220107475
Bottom ID:	154531	Well Type:	Plugged Oil Well
Current Wells #:	2	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	210	Well Number:	07479
Surface ID:	154159	API #:	4220107479
Bottom ID:	154159	Well Type:	Plugged Oil Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	211	Well Number:	32232
Surface ID:	154161	API #:	4220132232
Bottom ID:	154161	Well Type:	Permitted Location
Current Wells #:	1A	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	212		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154063	Well Number:	07498
Bottom ID:	154063	API #:	4220107498
Current Wells #:	26	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	213	Well Number:	Not Reported
Surface ID:	154153	API #:	42201
Bottom ID:	154153	Well Type:	Oil Well
Current Wells #:	5	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	214	Well Number:	Not Reported
Surface ID:	154162	API #:	42201
Bottom ID:	154162	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	215	Well Number:	Not Reported
Surface ID:	154156	API #:	42201
Bottom ID:	154156	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	216	Well Number:	Not Reported
Surface ID:	154256	API #:	42201
Bottom ID:	154256	Well Type:	Plugged Oil Well
Current Wells #:	3	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	217	Well Number:	32090
Surface ID:	152723	API #:	4220132090D1
Bottom ID:	152723	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	218	Well Number:	Not Reported
Surface ID:	154155	API #:	42201
Bottom ID:	154155	Well Type:	Permitted Location
Current Wells #:	4	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID: 219

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154160	Well Number:	32091
Bottom ID:	154160	API #:	4220132091D1
Current Wells #:	1	Well Type:	Permitted Location
Radioactive:	Not Reported	Side Track:	D1

Map ID:	220	Well Number:	Not Reported
Surface ID:	152724	API #:	42201
Bottom ID:	152724	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	221	Well Number:	Not Reported
Surface ID:	152758	API #:	42201
Bottom ID:	152758	Well Type:	Permitted Location
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	222	Well Number:	Not Reported
Surface ID:	154053	API #:	42071
Bottom ID:	154053	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	223	Well Number:	32183
Surface ID:	1058686	API #:	4207132183
Bottom ID:	1058686	Well Type:	Injection/Disposal Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	224	Well Number:	Not Reported
Surface ID:	152570	API #:	42071
Bottom ID:	152570	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	225	Well Number:	Not Reported
Surface ID:	152687	API #:	42071
Bottom ID:	152687	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID: 226

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	154646	Well Number:	32076
Bottom ID:	154646	API #:	4207132076
Current Wells #:	1	Well Type:	Shut-In Well (Gas)
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	227	Well Number:	Not Reported
Surface ID:	152698	API #:	42071
Bottom ID:	152698	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	228	Well Number:	Not Reported
Surface ID:	152686	API #:	42071
Bottom ID:	152686	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	229	Well Number:	Not Reported
Surface ID:	152571	API #:	42071
Bottom ID:	152571	Well Type:	Dry Hole
Current Wells #:	9	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	230	Well Number:	Not Reported
Surface ID:	152590	API #:	42071
Bottom ID:	152590	Well Type:	Oil Well
Current Wells #:	43	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	231	Well Number:	Not Reported
Surface ID:	152634	API #:	42071 D1
Bottom ID:	152634	Well Type:	Dry Hole
Current Wells #:	946	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	232	Well Number:	Not Reported
Surface ID:	152572	API #:	42071
Bottom ID:	152572	Well Type:	Dry Hole
Current Wells #:	61	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID: 233

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	152635	Well Number:	31103
Bottom ID:	152635	API #:	4207131103D1
Current Wells #:	3	Well Type:	Canceled Location
Radioactive:	Not Reported	Side Track:	D1

Map ID:	234	Well Number:	31255
Surface ID:	154652	API #:	4207131255
Bottom ID:	154652	Well Type:	Dry Hole
Current Wells #:	640	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	235	Well Number:	30948
Surface ID:	152694	API #:	4207130948
Bottom ID:	152694	Well Type:	Plugged Gas Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	236	Well Number:	31087
Surface ID:	152693	API #:	4207131087D1
Bottom ID:	152693	Well Type:	Plugged Gas Well
Current Wells #:	2	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	237	Well Number:	31653
Surface ID:	152691	API #:	4207131653
Bottom ID:	152691	Well Type:	Plugged Gas Well
Current Wells #:	2	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	238	Well Number:	03009
Surface ID:	152692	API #:	4207103009
Bottom ID:	152692	Well Type:	Gas Well
Current Wells #:	942M	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	239	Well Number:	Not Reported
Surface ID:	152700	API #:	42071
Bottom ID:	152700	Well Type:	Permitted Location
Current Wells #:	4M	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID: 240

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	152598	Well Number:	Not Reported
Bottom ID:	152598	API #:	42071
Current Wells #:	2	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	241	Well Number:	Not Reported
Surface ID:	152589	API #:	42071
Bottom ID:	152589	Well Type:	Dry Hole
Current Wells #:	3M	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	242	Well Number:	Not Reported
Surface ID:	152695	API #:	42071
Bottom ID:	152695	Well Type:	Dry Hole
Current Wells #:	9407	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	243	Well Number:	Not Reported
Surface ID:	152697	API #:	42071
Bottom ID:	152697	Well Type:	Dry Hole
Current Wells #:	56	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	244	Well Number:	Not Reported
Surface ID:	152699	API #:	42071
Bottom ID:	152699	Well Type:	Plugged Gas Well
Current Wells #:	5M	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	245	Well Number:	Not Reported
Surface ID:	152591	API #:	42071 D1
Bottom ID:	152591	Well Type:	Oil Well
Current Wells #:	Not Reported	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	246	Well Number:	03006
Surface ID:	152594	API #:	4207103006
Bottom ID:	152594	Well Type:	Plugged Oil/Gas Well
Current Wells #:	20	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID: 247

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID: 1308350
 Bottom ID: 1308350
 Current Wells #: 1
 Radioactive: Not Reported

Well Number: 32557
 API #: 4207132557D1
 Well Type: Oil Well
 Side Track: D1

Map ID: 248
 Surface ID: 152592
 Bottom ID: 152592
 Current Wells #: 1
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42071
 Well Type: Plugged Oil Well
 Side Track: Not Reported

Map ID: 249
 Surface ID: 152584
 Bottom ID: 152584
 Current Wells #: 3
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42071
 Well Type: Dry Hole
 Side Track: Not Reported

Map ID: 250
 Surface ID: 152696
 Bottom ID: 152696
 Current Wells #: 1
 Radioactive: Not Reported

Well Number: 31510
 API #: 4207131510
 Well Type: Dry Hole
 Side Track: Not Reported

Map ID: 251
 Surface ID: 1085681
 Bottom ID: 1085681
 Current Wells #: 1
 Radioactive: Not Reported

Well Number: 32232
 API #: 4207132232D1
 Well Type: Plugged Gas Well
 Side Track: D1

Bottom ID: 1177913
 Current Wells #: 1
 Radioactive: Not Reported

API #: 4207132232D2
 Well Type: Plugged Gas Well
 Side Track: D2

Map ID: 252
 Surface ID: 1086172
 Bottom ID: 1275345
 Current Wells #: 2
 Radioactive: Not Reported

Well Number: 32235
 API #: 4207132235D2
 Well Type: Plugged Gas Well
 Side Track: D2

Bottom ID: 1086172
 Current Wells #: 2
 Radioactive: Not Reported

API #: 4207132235D1
 Well Type: Plugged Gas Well
 Side Track: D1

Map ID: 253

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	1086173	Well Number:	32234
Bottom ID:	1086173	API #:	4207132234D1
Current Wells #:	3	Well Type:	Permitted Location
Radioactive:	Not Reported	Side Track:	D1

Map ID:	254	Well Number:	Not Reported
Surface ID:	152701	API #:	42071
Bottom ID:	152701	Well Type:	Permitted Location
Current Wells #:	51	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	255	Well Number:	32556
Surface ID:	1306533	API #:	4207132556
Bottom ID:	1306533	Well Type:	Oil Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	256	Well Number:	Not Reported
Surface ID:	152595	API #:	42071
Bottom ID:	152595	Well Type:	Plugged Oil Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	257	Well Number:	30107
Surface ID:	152702	API #:	4207130107
Bottom ID:	152702	Well Type:	Plugged Oil Well
Current Wells #:	1970	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	258	Well Number:	Not Reported
Surface ID:	152573	API #:	42071
Bottom ID:	152573	Well Type:	Dry Hole
Current Wells #:	46	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	259	Well Number:	30045
Surface ID:	152690	API #:	4207130045
Bottom ID:	152690	Well Type:	Plugged Oil Well
Current Wells #:	2	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	260		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	152587	Well Number:	Not Reported
Bottom ID:	152587	API #:	42071
Current Wells #:	42	Well Type:	Dry Hole
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	261	Well Number:	Not Reported
Surface ID:	152593	API #:	42071
Bottom ID:	152593	Well Type:	Plugged Oil Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	262	Well Number:	32509
Surface ID:	1271730	API #:	4207132509D1
Bottom ID:	1271730	Well Type:	Oil Well
Current Wells #:	185	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	263	Well Number:	Not Reported
Surface ID:	152602	API #:	42071
Bottom ID:	152602	Well Type:	Oil Well
Current Wells #:	1M	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	264	Well Number:	03053
Surface ID:	152603	API #:	4207103053
Bottom ID:	152603	Well Type:	Oil Well
Current Wells #:	1911	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	265	Well Number:	03161
Surface ID:	152604	API #:	4207103161
Bottom ID:	152604	Well Type:	Oil Well
Current Wells #:	1961	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	266	Well Number:	Not Reported
Surface ID:	152605	API #:	42071
Bottom ID:	152605	Well Type:	Oil/Gas Well
Current Wells #:	1952	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	267		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	152596	Well Number:	Not Reported
Bottom ID:	152596	API #:	42071 D1
Current Wells #:	23	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	D1

Map ID:	268	Well Number:	31988
Surface ID:	152713	API #:	4207131988
Bottom ID:	152713	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	269	Well Number:	Not Reported
Surface ID:	152608	API #:	42071
Bottom ID:	152608	Well Type:	Oil Well
Current Wells #:	181	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	270	Well Number:	32516
Surface ID:	1274885	API #:	4207132516D1
Bottom ID:	1274885	Well Type:	Permitted Location
Current Wells #:	189	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	271	Well Number:	32518
Surface ID:	1275581	API #:	4207132518D1
Bottom ID:	1275581	Well Type:	Oil Well
Current Wells #:	190	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	272	Well Number:	03040
Surface ID:	152609	API #:	4207103040
Bottom ID:	152609	Well Type:	Oil Well
Current Wells #:	1811	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	273	Well Number:	Not Reported
Surface ID:	152597	API #:	42071
Bottom ID:	152597	Well Type:	Plugged Oil Well
Current Wells #:	2	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID: 274

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	152583	Well Number:	Not Reported
Bottom ID:	152583	API #:	42071
Current Wells #:	5	Well Type:	Dry Hole
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	275	Well Number:	30041
Surface ID:	152646	API #:	4207130041
Bottom ID:	152646	Well Type:	Plugged Oil Well
Current Wells #:	951	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	276	Well Number:	Not Reported
Surface ID:	152599	API #:	42071
Bottom ID:	152599	Well Type:	Oil Well
Current Wells #:	53	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	277	Well Number:	80909
Surface ID:	152610	API #:	4207180909
Bottom ID:	152610	Well Type:	Oil Well
Current Wells #:	12	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	278	Well Number:	03058
Surface ID:	152606	API #:	4207103058
Bottom ID:	152606	Well Type:	Oil Well
Current Wells #:	1962	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	279	Well Number:	32517
Surface ID:	1275177	API #:	4207132517
Bottom ID:	1275177	Well Type:	Oil Well
Current Wells #:	187	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	280	Well Number:	32310
Surface ID:	1126573	API #:	4207132310D1
Bottom ID:	1126573	Well Type:	Oil Well
Current Wells #:	1877	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	281		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	152645	Well Number:	30163
Bottom ID:	152645	API #:	4207130163
Current Wells #:	1873	Well Type:	Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	282	Well Number:	80914
Surface ID:	152616	API #:	4207180914
Bottom ID:	152616	Well Type:	Plugged Oil Well
Current Wells #:	20	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	283	Well Number:	03021
Surface ID:	152611	API #:	4207103021
Bottom ID:	152611	Well Type:	Plugged Oil Well
Current Wells #:	16	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	284	Well Number:	03038
Surface ID:	152653	API #:	4207103038
Bottom ID:	152653	Well Type:	Plugged Oil/Gas Well
Current Wells #:	185	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	285	Well Number:	31867
Surface ID:	152648	API #:	4207131867
Bottom ID:	152648	Well Type:	Permitted Location
Current Wells #:	76	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	286	Well Number:	32581
Surface ID:	1294560	API #:	4207132581D1
Bottom ID:	1294560	Well Type:	Oil Well
Current Wells #:	202	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	287	Well Number:	03043
Surface ID:	152612	API #:	4207103043
Bottom ID:	152612	Well Type:	Oil Well
Current Wells #:	21	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	288		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	152647	Well Number:	30106
Bottom ID:	152647	API #:	4207130106
Current Wells #:	1870	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	289	Well Number:	Not Reported
Surface ID:	152620	API #:	42071
Bottom ID:	152620	Well Type:	Oil Well
Current Wells #:	41M	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	290	Well Number:	03042
Surface ID:	152614	API #:	4207103042
Bottom ID:	152614	Well Type:	Oil/Gas Well
Current Wells #:	182	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	291	Well Number:	Not Reported
Surface ID:	152582	API #:	42071
Bottom ID:	152582	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	292	Well Number:	32523
Surface ID:	1277498	API #:	4207132523DW
Bottom ID:	1277498	Well Type:	Permitted Location
Current Wells #:	191	Side Track:	DW
Radioactive:	Not Reported		

Bottom ID:	1282038	API #:	4207132523D1
Current Wells #:	191	Well Type:	Oil Well
Radioactive:	Not Reported	Side Track:	D1

Map ID:	293	Well Number:	32519
Surface ID:	1275885	API #:	4207132519D1
Bottom ID:	1275885	Well Type:	Oil Well
Current Wells #:	188	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	294	Well Number:	03036
Surface ID:	152621	API #:	4207103036
Bottom ID:	152621	Well Type:	Oil Well
Current Wells #:	41		

GEOCHECK VERSION 2.1 STATE DATABASE WELL INFORMATION

Current Wells #:	184	Well Type:	Injection/Disposal from Oil
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	302	Well Number:	32506
Surface ID:	1271097	API #:	4207132506
Bottom ID:	1271097	Well Type:	Oil Well
Current Wells #:	198	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	303	Well Number:	Not Reported
Surface ID:	152607	API #:	42071
Bottom ID:	152607	Well Type:	Plugged Oil Well
Current Wells #:	64	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	304	Well Number:	Not Reported
Surface ID:	152617	API #:	42071
Bottom ID:	152617	Well Type:	Oil Well
Current Wells #:	40	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	305	Well Number:	80921
Surface ID:	152640	API #:	4207180921
Bottom ID:	152640	Well Type:	Plugged Oil Well
Current Wells #:	51	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	306	Well Number:	03048
Surface ID:	152585	API #:	4207103048D1
Bottom ID:	152585	Well Type:	Plugged Oil Well
Current Wells #:	22M	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	307	Well Number:	32382
Surface ID:	1193607	API #:	4207132382D1
Bottom ID:	1193607	Well Type:	Oil Well
Current Wells #:	81	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	308	Well Number:	Not Reported
Surface ID:	152588		

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Bottom ID:	152588	API #:	42071
Current Wells #:	55	Well Type:	Dry Hole
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	309	Well Number:	32575
Surface ID:	1291994	API #:	4207132575
Bottom ID:	1291994	Well Type:	Oil Well
Current Wells #:	196	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	310	Well Number:	03032
Surface ID:	152623	API #:	4207103032
Bottom ID:	152623	Well Type:	Oil Well
Current Wells #:	42	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	311	Well Number:	03033
Surface ID:	152622	API #:	4207103033
Bottom ID:	152622	Well Type:	Plugged Oil Well
Current Wells #:	1852M	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	312	Well Number:	32510
Surface ID:	1272915	API #:	4207132510D1
Bottom ID:	1272915	Well Type:	Oil Well
Current Wells #:	186	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	313	Well Number:	03031
Surface ID:	152618	API #:	4207103031
Bottom ID:	152618	Well Type:	Oil Well
Current Wells #:	42M	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	314	Well Number:	31990
Surface ID:	154570	API #:	4207131990D1
Bottom ID:	154570	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	315		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	152644	Well Number:	30130
Bottom ID:	152644	API #:	4207130130
Current Wells #:	1872	Well Type:	Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	316	Well Number:	Not Reported
Surface ID:	152630	API #:	42071
Bottom ID:	152630	Well Type:	Oil Well
Current Wells #:	3M	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	317	Well Number:	30104
Surface ID:	152650	API #:	4207130104
Bottom ID:	152650	Well Type:	Gas Well
Current Wells #:	18M	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	318	Well Number:	03181
Surface ID:	152601	API #:	4207103181
Bottom ID:	152601	Well Type:	Plugged Gas Well
Current Wells #:	18	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	319	Well Number:	31971
Surface ID:	152711	API #:	4207131971
Bottom ID:	152711	Well Type:	Gas Well
Current Wells #:	1876	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	320	Well Number:	32315
Surface ID:	1127965	API #:	4207132315D1
Bottom ID:	1127965	Well Type:	Oil Well
Current Wells #:	1878	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	321	Well Number:	32126
Surface ID:	154649	API #:	4207132126D1
Bottom ID:	154649	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	D1
Radioactive:	Not Reported		

Bottom ID:	1126579	API #:	4207132126D2
Current Wells #:	1879	Well Type:	Permitted Location

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Radioactive:	Not Reported	Side Track:	D2
Bottom ID:	1126586	API #:	4207132126DW
Current Wells #:	1879	Well Type:	Dry Hole
Radioactive:	Not Reported	Side Track:	DW
<hr/>			
Map ID:	322	Well Number:	80907
Surface ID:	152629	API #:	4207180907
Bottom ID:	152629	Well Type:	Plugged Oil Well
Current Wells #:	3	Side Track:	Not Reported
Radioactive:	Not Reported		
<hr/>			
Map ID:	323	Well Number:	03051
Surface ID:	152625	API #:	4207103051D1
Bottom ID:	152625	Well Type:	Plugged Oil Well
Current Wells #:	1824	Side Track:	D1
Radioactive:	Not Reported		
<hr/>			
Map ID:	324	Well Number:	31991
Surface ID:	152714	API #:	4207131991
Bottom ID:	152714	Well Type:	Permitted Location
Current Wells #:	3	Side Track:	Not Reported
Radioactive:	Not Reported		
<hr/>			
Map ID:	325	Well Number:	80915
Surface ID:	152627	API #:	4207180915
Bottom ID:	152627	Well Type:	Plugged Oil Well
Current Wells #:	23	Side Track:	Not Reported
Radioactive:	Not Reported		
<hr/>			
Map ID:	326	Well Number:	Not Reported
Surface ID:	152631	API #:	42071
Bottom ID:	152631	Well Type:	Oil Well
Current Wells #:	33M	Side Track:	Not Reported
Radioactive:	Not Reported		
<hr/>			
Map ID:	327	Well Number:	30279
Surface ID:	152651	API #:	4207130279
Bottom ID:	152651	Well Type:	Oil/Gas Well
Current Wells #:	1874L	Side Track:	Not Reported
Radioactive:	Not Reported		
<hr/>			
Map ID:	328		

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID: 152586
 Bottom ID: 1150516
 Current Wells #: 24M
 Radioactive: Not Reported

Well Number: 03023
 API #: 4207103023DW
 Well Type: Plugged Oil Well
 Side Track: DW

Bottom ID: 152586
 Current Wells #: 1816
 Radioactive: Not Reported

API #: 4207103023D1
 Well Type: Plugged Oil Well
 Side Track: D1

Map ID: 329
 Surface ID: 152649
 Bottom ID: 152649
 Current Wells #: 43M
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42071
 Well Type: Plugged Oil Well
 Side Track: Not Reported

Map ID: 330
 Surface ID: 152628
 Bottom ID: 152628
 Current Wells #: 1825
 Radioactive: Not Reported

Well Number: 03025
 API #: 4207103025
 Well Type: Injection/Disposal from Oil
 Side Track: Not Reported

Map ID: 331
 Surface ID: 1291957
 Bottom ID: 1314451
 Current Wells #: 201
 Radioactive: Not Reported

Well Number: 32574
 API #: 4207132574D2
 Well Type: Shut-In Well (Oil)
 Side Track: D2

Bottom ID: 1291957
 Current Wells #: 201
 Radioactive: Not Reported

API #: 4207132574D1
 Well Type: Oil Well
 Side Track: D1

Map ID: 332
 Surface ID: 152643
 Bottom ID: 152643
 Current Wells #: 43
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42071
 Well Type: Oil Well
 Side Track: Not Reported

Map ID: 333
 Surface ID: 1300980
 Bottom ID: 1300980
 Current Wells #: 203
 Radioactive: Not Reported

Well Number: 32597
 API #: 4207132597H1
 Well Type: Permitted Location
 Side Track: H1

Map ID: 334

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID: 152626
 Bottom ID: 152626
 Current Wells #: 15
 Radioactive: Not Reported

Well Number: 03022
 API #: 4207103022
 Well Type: Oil Well
 Side Track: Not Reported

Map ID: 335
 Surface ID: 154648
 Bottom ID: 154648
 Current Wells #: 2
 Radioactive: Not Reported

Well Number: 32131
 API #: 4207132131D1
 Well Type: Permitted Location
 Side Track: D1

Map ID: 336
 Surface ID: 152712
 Bottom ID: 152712
 Current Wells #: 2
 Radioactive: Not Reported

Well Number: 31989
 API #: 4207131989
 Well Type: Dry Hole
 Side Track: Not Reported

Map ID: 337
 Surface ID: 1275989
 Bottom ID: 1275989
 Current Wells #: 192
 Radioactive: Not Reported

Well Number: 32520
 API #: 4207132520D1
 Well Type: Oil Well
 Side Track: D1

Map ID: 338
 Surface ID: 152636
 Bottom ID: 152636
 Current Wells #: 8
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42071
 Well Type: Dry Hole
 Side Track: Not Reported

Map ID: 339
 Surface ID: 152633
 Bottom ID: 152633
 Current Wells #: 53
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42071
 Well Type: Plugged Oil Well
 Side Track: Not Reported

Map ID: 340
 Surface ID: 152632
 Bottom ID: 152632
 Current Wells #: 44
 Radioactive: Not Reported

Well Number: 03019
 API #: 4207103019
 Well Type: Oil Well
 Side Track: Not Reported

Map ID: 341

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	152576	Well Number:	Not Reported
Bottom ID:	152576	API #:	42071
Current Wells #:	12	Well Type:	Dry Hole
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	342	Well Number:	80918
Surface ID:	152639	API #:	4207180918
Bottom ID:	152639	Well Type:	Plugged Oil Well
Current Wells #:	35	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	343	Well Number:	80922
Surface ID:	152652	API #:	4207180922D1
Bottom ID:	152652	Well Type:	Plugged Oil Well
Current Wells #:	55	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	344	Well Number:	32586
Surface ID:	1295587	API #:	4207132586D1
Bottom ID:	1295587	Well Type:	Oil Well
Current Wells #:	10	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	345	Well Number:	32584
Surface ID:	1295571	API #:	4207132584D1
Bottom ID:	1295571	Well Type:	Permitted Location
Current Wells #:	2	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	346	Well Number:	32555
Surface ID:	1286778	API #:	4207132555
Bottom ID:	1286778	Well Type:	Injection/Disposal Well
Current Wells #:	195	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	347	Well Number:	Not Reported
Surface ID:	152579	API #:	42071
Bottom ID:	152579	Well Type:	Dry Hole
Current Wells #:	13	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID: 348

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID: 1295583
 Bottom ID: 1295583
 Current Wells #: 13
 Radioactive: Not Reported

Well Number: 32585
 API #: 4207132585D1
 Well Type: Oil Well
 Side Track: D1

Map ID: 349
 Surface ID: 1124757
 Bottom ID: 1124757
 Current Wells #: 1
 Radioactive: Not Reported

Well Number: 32306
 API #: 4207132306D1
 Well Type: Gas Well
 Side Track: D1

Map ID: 350
 Surface ID: 152580
 Bottom ID: 152580
 Current Wells #: 6
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42071
 Well Type: Dry Hole
 Side Track: Not Reported

Map ID: 351
 Surface ID: 1295597
 Bottom ID: 1295597
 Current Wells #: 9
 Radioactive: Not Reported

Well Number: 32588
 API #: 4207132588D1
 Well Type: Permitted Location
 Side Track: D1

Map ID: 352
 Surface ID: 1156489
 Bottom ID: 1156489
 Current Wells #: 8
 Radioactive: Not Reported

Well Number: 32355
 API #: 4207132355D1
 Well Type: Oil/Gas Well
 Side Track: D1

Map ID: 353
 Surface ID: 1193850
 Bottom ID: 1193850
 Current Wells #: 9
 Radioactive: Not Reported

Well Number: 32383
 API #: 4207132383D1
 Well Type: Oil Well
 Side Track: D1

Map ID: 354
 Surface ID: 152654
 Bottom ID: 152654
 Current Wells #: 1
 Radioactive: Not Reported

Well Number: 31079
 API #: 4207131079D1
 Well Type: Canceled Location
 Side Track: D1

Map ID: 355

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID: 152656
 Bottom ID: 152656
 Current Wells #: 1
 Radioactive: Not Reported

Well Number: 30933
 API #: 4207130933D1
 Well Type: Dry Hole
 Side Track: D1

Map ID: 356
 Surface ID: 152655
 Bottom ID: 1180135
 Current Wells #: 3
 Radioactive: Not Reported

Well Number: 31127
 API #: 4207131127D2
 Well Type: Permitted Location
 Side Track: D2

Bottom ID: 152655
 Current Wells #: 3
 Radioactive: Not Reported

API #: 4207131127D1
 Well Type: Oil Well
 Side Track: D1

Map ID: 357
 Surface ID: 1291857
 Bottom ID: 1291857
 Current Wells #: 200
 Radioactive: Not Reported

Well Number: 32573
 API #: 4207132573
 Well Type: Canceled Location
 Side Track: Not Reported

Map ID: 358
 Surface ID: 152765
 Bottom ID: 152765
 Current Wells #: 5
 Radioactive: Not Reported

Well Number: 32001
 API #: 4207132001D1
 Well Type: Permitted Location
 Side Track: D1

Map ID: 359
 Surface ID: 1295591
 Bottom ID: 1312151
 Current Wells #: 11
 Radioactive: Not Reported

Well Number: 32587
 API #: 4207132587D2
 Well Type: Oil Well
 Side Track: D2

Bottom ID: 1295591
 Current Wells #: 11
 Radioactive: Not Reported

API #: 4207132587D1
 Well Type: Shut-In Well (Oil)
 Side Track: D1

Map ID: 360
 Surface ID: 1078616
 Bottom ID: 1078616
 Current Wells #: 5
 Radioactive: Not Reported

Well Number: 32220
 API #: 4207132220D1
 Well Type: Oil Well
 Side Track: D1

Map ID: 361

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID: 1082600
 Bottom ID: 1082600
 Current Wells #: 6
 Radioactive: Not Reported

Well Number: 32226
 API #: 4207132226D1
 Well Type: Oil Well
 Side Track: D1

Map ID: 362
 Surface ID: 1076060
 Bottom ID: 1076060
 Current Wells #: 6
 Radioactive: Not Reported

Well Number: 32215
 API #: 4207132215D1
 Well Type: Permitted Location
 Side Track: D1

Map ID: 363
 Surface ID: 152766
 Bottom ID: 152766
 Current Wells #: 4
 Radioactive: Not Reported

Well Number: 31959
 API #: 4207131959D1
 Well Type: Oil Well
 Side Track: D1

Bottom ID: 152767
 Current Wells #: 4
 Radioactive: Not Reported

API #: 4207131959D2
 Well Type: Oil Well
 Side Track: D2

Map ID: 364
 Surface ID: 1070788
 Bottom ID: 1070788
 Current Wells #: 5
 Radioactive: Not Reported

Well Number: 32204
 API #: 4207132204D1
 Well Type: Permitted Location
 Side Track: D1

Map ID: 365
 Surface ID: 152637
 Bottom ID: 152637
 Current Wells #: 1
 Radioactive: Not Reported

Well Number: 31537
 API #: 4207131537
 Well Type: Dry Hole
 Side Track: Not Reported

Map ID: 366
 Surface ID: 1315038
 Bottom ID: 1315038
 Current Wells #: 12
 Radioactive: Not Reported

Well Number: 32607
 API #: 4207132607D1
 Well Type: Oil Well
 Side Track: D1

Map ID: 367
 Surface ID: 152657
 Bottom ID: 152657
 Current Wells #: 1

Well Number: 31063
 API #: 4207131063
 Well Type: Oil/Gas Well

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Current Wells #:	31	Well Type:	Dry Hole
Radioactive:	Not Reported	Side Track:	Not Reported
<hr/>			
Map ID:	375	Well Number:	31677
Surface ID:	152638	API #:	4207131677D1
Bottom ID:	152638	Well Type:	Permitted Location
Current Wells #:	2	Side Track:	D1
Radioactive:	Not Reported		
<hr/>			
Map ID:	376	Well Number:	Not Reported
Surface ID:	152577	API #:	42071
Bottom ID:	152577	Well Type:	Dry Hole
Current Wells #:	14	Side Track:	Not Reported
Radioactive:	Not Reported		
<hr/>			
Map ID:	377	Well Number:	Not Reported
Surface ID:	152574	API #:	42071
Bottom ID:	152574	Well Type:	Plugged Oil Well
Current Wells #:	17	Side Track:	Not Reported
Radioactive:	Not Reported		
<hr/>			
Map ID:	378	Well Number:	Not Reported
Surface ID:	152315	API #:	42071
Bottom ID:	152315	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		
<hr/>			
Map ID:	379	Well Number:	Not Reported
Surface ID:	152324	API #:	42071
Bottom ID:	152324	Well Type:	Dry Hole
Current Wells #:	22	Side Track:	Not Reported
Radioactive:	Not Reported		
<hr/>			
Map ID:	380	Well Number:	Not Reported
Surface ID:	152309	API #:	42071
Bottom ID:	152309	Well Type:	Plugged Oil Well
Current Wells #:	4	Side Track:	Not Reported
Radioactive:	Not Reported		
<hr/>			
Map ID:	381	Well Number:	31705
Surface ID:	152486		

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Bottom ID:	152486	API #:	4207131705
Current Wells #:	1	Well Type:	Permitted Location
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	382	Well Number:	Not Reported
Surface ID:	152487	API #:	42071
Bottom ID:	152487	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	383	Well Number:	Not Reported
Surface ID:	152323	API #:	42071
Bottom ID:	152323	Well Type:	Dry Hole
Current Wells #:	18	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	384	Well Number:	Not Reported
Surface ID:	152310	API #:	42071
Bottom ID:	152310	Well Type:	Plugged Oil Well
Current Wells #:	7	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	385	Well Number:	Not Reported
Surface ID:	152313	API #:	42071
Bottom ID:	152313	Well Type:	Plugged Gas Well
Current Wells #:	11	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	386	Well Number:	31252
Surface ID:	152479	API #:	4207131252
Bottom ID:	152479	Well Type:	Canceled Location
Current Wells #:	2	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	387	Well Number:	32360
Surface ID:	1163908	API #:	4207132360
Bottom ID:	1163908	Well Type:	Plugged Oil Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID: 388

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID: 152316
 Bottom ID: 152316
 Current Wells #: 1
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42071
 Well Type: Dry Hole
 Side Track: Not Reported

Map ID: 389
 Surface ID: 152481
 Bottom ID: 152481
 Current Wells #: 2
 Radioactive: Not Reported

Well Number: 31402
 API #: 4207131402
 Well Type: Dry Hole
 Side Track: Not Reported

Map ID: 390
 Surface ID: 152325
 Bottom ID: 152325
 Current Wells #: 16
 Radioactive: Not Reported

Well Number: Not Reported
 API #: 42071
 Well Type: Dry Hole
 Side Track: Not Reported

Map ID: 391
 Surface ID: 152314
 Bottom ID: 152314
 Current Wells #: 15
 Radioactive: Not Reported

Well Number: 03076
 API #: 4207103076
 Well Type: Plugged Oil/Gas Well
 Side Track: Not Reported

Map ID: 392
 Surface ID: 152488
 Bottom ID: 152488
 Current Wells #: 5
 Radioactive: Not Reported

Well Number: 31528
 API #: 4207131528D1
 Well Type: Plugged Oil Well
 Side Track: D1

Map ID: 393
 Surface ID: 152490
 Bottom ID: 152490
 Current Wells #: 6
 Radioactive: Not Reported

Well Number: 31565
 API #: 4207131565
 Well Type: Dry Hole
 Side Track: Not Reported

Map ID: 394
 Surface ID: 152480
 Bottom ID: 152480
 Current Wells #: 3
 Radioactive: Not Reported

Well Number: 31285
 API #: 4207131285
 Well Type: Canceled Location
 Side Track: Not Reported

Map ID: 395

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	152311	Well Number:	Not Reported
Bottom ID:	152311	API #:	42071
Current Wells #:	21	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	396	Well Number:	Not Reported
Surface ID:	152321	API #:	42071
Bottom ID:	152321	Well Type:	Dry Hole
Current Wells #:	24	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	397	Well Number:	31503
Surface ID:	152491	API #:	4207131503
Bottom ID:	152491	Well Type:	Dry Hole
Current Wells #:	2	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	398	Well Number:	31253
Surface ID:	152492	API #:	4207131253
Bottom ID:	152492	Well Type:	Plugged Oil Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	399	Well Number:	Not Reported
Surface ID:	152322	API #:	42071
Bottom ID:	152322	Well Type:	Dry Hole
Current Wells #:	13	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	400	Well Number:	31196
Surface ID:	152511	API #:	4207131196D1
Bottom ID:	152511	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	401	Well Number:	31504
Surface ID:	152489	API #:	4207131504D1
Bottom ID:	152489	Well Type:	Oil Well
Current Wells #:	1	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	402		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	152320	Well Number:	Not Reported
Bottom ID:	152320	API #:	42071
Current Wells #:	19	Well Type:	Dry Hole
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	403	Well Number:	31131
Surface ID:	152482	API #:	4207131131
Bottom ID:	152482	Well Type:	Plugged Oil Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	404	Well Number:	Not Reported
Surface ID:	152499	API #:	42071
Bottom ID:	152499	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	405	Well Number:	31346
Surface ID:	152500	API #:	4207131346
Bottom ID:	152500	Well Type:	Canceled Location
Current Wells #:	5	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	406	Well Number:	31254
Surface ID:	152493	API #:	4207131254
Bottom ID:	152493	Well Type:	Dry Hole
Current Wells #:	2	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	407	Well Number:	Not Reported
Surface ID:	152317	API #:	42071
Bottom ID:	152317	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	408	Well Number:	31410
Surface ID:	152494	API #:	4207131410
Bottom ID:	152494	Well Type:	Dry Hole
Current Wells #:	3	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	409		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	152495	Well Number:	30203
Bottom ID:	152495	API #:	4207130203
Current Wells #:	2	Well Type:	Plugged Oil Well
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	410	Well Number:	Not Reported
Surface ID:	152312	API #:	42071
Bottom ID:	152312	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	411	Well Number:	30175
Surface ID:	152340	API #:	4207130175
Bottom ID:	152340	Well Type:	Plugged Oil Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	412	Well Number:	31776
Surface ID:	152498	API #:	4207131776
Bottom ID:	152498	Well Type:	Permitted Location
Current Wells #:	2	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	413	Well Number:	31770
Surface ID:	152541	API #:	4207131770
Bottom ID:	152541	Well Type:	Permitted Location
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	414	Well Number:	30569
Surface ID:	152496	API #:	4207130569
Bottom ID:	152496	Well Type:	Plugged Oil Well
Current Wells #:	3	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	415	Well Number:	30911
Surface ID:	152497	API #:	4207130911
Bottom ID:	152497	Well Type:	Plugged Oil Well
Current Wells #:	4	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID: 416

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	152318	Well Number:	Not Reported
Bottom ID:	152318	API #:	42071
Current Wells #:	1	Well Type:	Dry Hole
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	417	Well Number:	Not Reported
Surface ID:	152477	API #:	42071
Bottom ID:	152477	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	418	Well Number:	30388
Surface ID:	152559	API #:	4207130388
Bottom ID:	152559	Well Type:	Permitted Location
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	419	Well Number:	32243
Surface ID:	1090505	API #:	4207132243D1
Bottom ID:	1090505	Well Type:	Dry Hole
Current Wells #:	2	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	420	Well Number:	32246
Surface ID:	1096518	API #:	4207132246D1
Bottom ID:	1176025	Well Type:	Shut-In Well (Gas)
Current Wells #:	1	Side Track:	D1
Radioactive:	Not Reported		

Bottom ID:	1096518	API #:	4207132246DW
Current Wells #:	1	Well Type:	Dry Hole
Radioactive:	Not Reported	Side Track:	DW

Map ID:	421	Well Number:	Not Reported
Surface ID:	152326	API #:	42071
Bottom ID:	152326	Well Type:	Plugged Oil Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	422	Well Number:	30939
Surface ID:	152319	API #:	4207130939
Bottom ID:	152319	Well Type:	Canceled Location
Current Wells #:	1		

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Bottom ID:	152476	API #:	4207131574
Current Wells #:	2	Well Type:	Dry Hole
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	429	Well Number:	31821
Surface ID:	152475	API #:	4207131821
Bottom ID:	152475	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	430	Well Number:	31449
Surface ID:	152509	API #:	4207131449D1
Bottom ID:	1108401	Well Type:	Oil Well
Current Wells #:	3	Side Track:	D1
Radioactive:	Not Reported		

Bottom ID:	152509	API #:	4207131449DW
Current Wells #:	3	Well Type:	Oil Well
Radioactive:	Not Reported	Side Track:	DW

Map ID:	431	Well Number:	31568
Surface ID:	152507	API #:	4207131568
Bottom ID:	152507	Well Type:	Gas Well
Current Wells #:	4	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	432	Well Number:	30940
Surface ID:	152537	API #:	4207130940D1
Bottom ID:	152537	Well Type:	Canceled Location
Current Wells #:	1	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	433	Well Number:	Not Reported
Surface ID:	152337	API #:	42071
Bottom ID:	152337	Well Type:	Oil/Gas Well
Current Wells #:	79	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	434	Well Number:	Not Reported
Surface ID:	152478	API #:	42071
Bottom ID:	152478	Well Type:	Plugged Gas Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID: 435

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	152503	Well Number:	31092
Bottom ID:	152503	API #:	4207131092
Current Wells #:	1	Well Type:	Dry Hole
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	436	Well Number:	Not Reported
Surface ID:	152330	API #:	42071
Bottom ID:	152330	Well Type:	Dry Hole
Current Wells #:	81A	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	437	Well Number:	Not Reported
Surface ID:	152502	API #:	42071
Bottom ID:	152502	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	438	Well Number:	31535
Surface ID:	152538	API #:	4207131535D1
Bottom ID:	152538	Well Type:	Canceled Location
Current Wells #:	1	Side Track:	D1
Radioactive:	Not Reported		

Map ID:	439	Well Number:	Not Reported
Surface ID:	152336	API #:	42071
Bottom ID:	152336	Well Type:	Dry Hole
Current Wells #:	56	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	440	Well Number:	30398
Surface ID:	152504	API #:	4207130398
Bottom ID:	152504	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	441	Well Number:	30156
Surface ID:	152539	API #:	4207130156
Bottom ID:	152539	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	442		
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GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID:	152331	Well Number:	Not Reported
Bottom ID:	152331	API #:	42071
Current Wells #:	67A	Well Type:	Dry Hole
Radioactive:	Not Reported	Side Track:	Not Reported

Map ID:	443	Well Number:	Not Reported
Surface ID:	152333	API #:	42071
Bottom ID:	152333	Well Type:	Dry Hole
Current Wells #:	11	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	444	Well Number:	Not Reported
Surface ID:	152368	API #:	42071
Bottom ID:	152368	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	445	Well Number:	31795
Surface ID:	152473	API #:	4207131795
Bottom ID:	152473	Well Type:	Permitted Location
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	446	Well Number:	02920
Surface ID:	152372	API #:	4207102920
Bottom ID:	152372	Well Type:	Dry Hole
Current Wells #:	10A	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	447	Well Number:	Not Reported
Surface ID:	152371	API #:	42071
Bottom ID:	152371	Well Type:	Dry Hole
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID:	448	Well Number:	Not Reported
Surface ID:	152369	API #:	42071
Bottom ID:	152369	Well Type:	Oil Well
Current Wells #:	1	Side Track:	Not Reported
Radioactive:	Not Reported		

Map ID: 449

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID: 152472
 Bottom ID: 152472
 Current Wells #: 4
 Radioactive: Not Reported

Well Number: 30858
 API #: 4207130858
 Well Type: Dry Hole
 Side Track: Not Reported

Map ID: 450
 Surface ID: 1180398
 Bottom ID: 1180398
 Current Wells #: 1
 Radioactive: Not Reported

Well Number: 32377
 API #: 4207132377
 Well Type: Dry Hole
 Side Track: Not Reported

Map ID: 451
 Surface ID: 152550
 Bottom ID: 152550
 Current Wells #: 1
 Radioactive: Not Reported

Well Number: 32015
 API #: 4207132015
 Well Type: Permitted Location
 Side Track: Not Reported

Map ID: 452
 Surface ID: 152370
 Bottom ID: 152370
 Current Wells #: 2
 Radioactive: Not Reported

Well Number: 02986
 API #: 4207102986
 Well Type: Dry Hole
 Side Track: Not Reported

Map ID: 453
 Surface ID: 152469
 Bottom ID: 152469
 Current Wells #: 1
 Radioactive: Not Reported

Well Number: 31249
 API #: 4207131249D1
 Well Type: Dry Hole
 Side Track: D1

Map ID: 454
 Surface ID: 152470
 Bottom ID: 152470
 Current Wells #: 4A
 Radioactive: Not Reported

Well Number: 31022
 API #: 4207131022D1
 Well Type: Dry Hole
 Side Track: D1

Map ID: 455
 Surface ID: 152471
 Bottom ID: 152471
 Current Wells #: 4
 Radioactive: Not Reported

Well Number: 30962
 API #: 4207130962D1
 Well Type: Dry Hole
 Side Track: D1

Map ID: 456

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Surface ID: 152373
Bottom ID: 152373
Current Wells #: 1
Radioactive: Not Reported

Well Number: 02987
API #: 4207102987
Well Type: Plugged Gas Well
Side Track: Not Reported

TEXAS GOVERNMENT WELL RECORDS SEARCHED

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

State Wetlands Data: Wetland Inventory

Source: Texas General Land Office

Telephone: 512-463-0745

Public Water Supply Sources Databases

Source: Texas Commission on Environmental Quality

Telephone: 512-239-6199

Locations of public drinking water sources maintained by the TCEQ.

Groundwater Database

Source: Texas Water Development Board

Telephone: 512-936-0837

Well Report Database

Source: Department of Licensing and Regulation

Telephone: 512-936-0833

Water Well Database

Source: Harris-Galveston Coastal Subsidence District

Telephone: 281-486-1105

Brackish Resources Aquifer Characterization System Database

Source: Texas Water Development Board

WDB's Brackish Resources Aquifer Characterization System (BRACS) was designed to map and characterize the brackish aquifers of Texas in greater detail than previous studies. The information is contained in the BRACS Database and project data are summarized in a project report with companion geographic information system data files.

Submitted Driller's Reports Database

Source: Texas Water Development Board

Telephone: 512-936-0833

The Submitted Driller's Report Database is populated from the online Texas Well Report Submission and Retrieval System which is a cooperative Texas Department of Licensing and Regulation (TDLR) and Texas Water Development Board (TWDB) application that registered water-well drillers use to submit their required reports.

Texas Oil and Gas Wells

Source: Texas Railroad Commission

Telephone: 512-463-6882

Oil and gas well locations.

TEXAS GOVERNMENT WELL RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Attachment 2

NWDLS Analytical Reports



October 27, 2023

LAB REPORT

Sara Flaherty
Anchor QEA, LLC
1201 3rd Avenue, Suite 2600
Seattle, WA 98101

Report ID: 20231027132113MM

RE: Galveston Bay 2023

The following test results meet all NELAP requirements for analytes for which certification is available. Any deviations from our quality system will be noted in the case narrative. All analyses performed by North Water District Laboratory Services, Inc. unless noted.

For questions regarding this report, contact Monica Martin at 936-321-6060.

Sincerely,

Monica O. Martin
Chief Administrative Officer

Anchor QEA, LLC
1201 3rd Avenue, Suite 2600
Seattle, WA 98101

Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
10/27/2023 13:21

Work Order Case Narrative

A total of 22 samples were collected on:

<u>Laboratory ID</u>	<u>Sample Name</u>	<u>Sample Date</u>
23H3257-01	CPC-EQ BLK-230815	08/15/2023 14:20
23H3257-02	CPC-01-SW-230815	08/15/2023 08:38
23H3257-03	CPC-02-SW-230815	08/15/2023 09:43
23H3257-04	CPC-03-SW-230815	08/15/2023 10:44
23H3257-05	CPC-04-SW-230815	08/15/2023 11:55
23H3257-06	CPC-05-SW-230816	08/16/2023 08:57
23H3257-07	CPC-06-SW-230816	08/16/2023 10:11
23H3257-08	CPC-07-SW-230816	08/16/2023 11:18
23H3257-09	CPC-01-SET-230815	08/15/2023 08:58
23H3257-10	CPC-02-SET-230815	08/15/2023 09:59
23H3257-11	CPC-03-SET-230815	08/15/2023 11:09
23H3257-12	CPC-04-SET-230815	08/15/2023 11:55
23H3257-13	CPC-05-SET-230816	08/16/2023 09:30
23H3257-14	CPC-06-SET-230816	08/16/2023 10:40
23H3257-15	CPC-07-SET-230816	08/16/2023 11:40
23H3257-16	CPC-01-SC-230815	08/15/2023 08:58
23H3257-17	CPC-02-SC-230815	08/15/2023 09:59
23H3257-18	CPC-03-SC-230815	08/15/2023 11:09
23H3257-19	CPC-04-SC-230815	08/15/2023 11:55
23H3257-20	CPC-05-SC-230816	08/16/2023 09:30
23H3257-21	CPC-06-SC-230816	08/16/2023 10:40
23H3257-22	CPC-07-SC-230816	08/16/2023 11:40

Samples were received and accepted at NWDLS on 08/17/2023 11:18. Any receiving discrepancies are recorded and stored in NWDLS' database. The samples received a Work Order of 23H3257. The lab sample IDs, client sample IDs, and dates of collection can be found at the top of each result page.

NWDLS provided their lowest detection limit for all requested analyses. Note that detection and reporting limits are adjusted to account for sample specific parameters.

Any QC that did not meet the laboratory specified control limits was flagged and reported with qualifiers. For additional information, please refer to the included quality control data pages.



Anchor QEA, LLC 1201 3rd Avenue, Suite 2600 Seattle, WA 98101	Project: Galveston Bay 2023 Project Number: Project Manager: Sara Flaherty	Reported: 10/27/2023 13:21
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Sample Results

Client Sample ID: CPC-EQ BLK-230815 Sample Matrix: 18 MOhm DI Water
 Lab Sample ID: 23H3257-01 Date Collected: 08/15/2023 14:20
 Sample Alias: Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Metals, Total

EPA 245.1	Mercury	A	<0.150U	ug/L	1	0.150	0.200	BGH4732	08/29/2023 14:26	AKR
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Metals, Dissolved

EPA 200.8	Antimony	A	<0.200U	ug/L	1	0.200	1.00	BGH4284	08/29/2023 12:07	JKC
EPA 200.8	Arsenic	A	<0.100U	ug/L	1	0.100	0.500	BGH4284	08/29/2023 12:07	JKC
EPA 200.8	Cadmium	A	<0.0500U	ug/L	1	0.0500	1.00	BGH4284	08/29/2023 12:07	JKC
EPA 200.8	Chromium	A	0.262J	ug/L	1	0.0800	3.00	BGH4284	08/29/2023 12:07	JKC
EPA 200.8	Copper	A	0.778V, J	ug/L	1	0.200	1.00	BGH4284	08/29/2023 12:07	JKC
EPA 200.8	Lead	A	<0.100U	ug/L	1	0.100	0.500	BGH4284	08/29/2023 12:07	JKC
EPA 200.8	Nickel	A	0.284J	ug/L	1	0.0500	1.00	BGH4284	08/29/2023 12:07	JKC
EPA 200.8	Silver	A	<0.0300U	ug/L	1	0.0300	0.500	BGH4284	08/29/2023 12:07	JKC
EPA 200.8	Zinc	A	1.40J	ug/L	1	0.200	2.00	BGH4284	08/29/2023 12:07	JKC

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Project Number:
Project Manager: Sara Flaherty

Reported:
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Sample Results
(Continued)

Client Sample ID: CPC-01-SW-230815
Lab Sample ID: 23H3257-02
Sample Alias:

Sample Matrix: Marine Water
Date Collected: 08/15/2023 8:38
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	2,4-Dichlorophenol	A	<0.557U	ug/L	1	0.557	1.12	BGH3513	09/01/2023 06:15	KRB
SW-8270	2,4-Dimethylphenol	A	<0.557U	ug/L	1	0.557	1.12	BGH3513	09/01/2023 06:15	KRB
SW-8270	2,4-Dinitrophenol	A	<4.48U	ug/L	1	4.48	4.48	BGH3513	09/01/2023 06:15	KRB
SW-8270	Acenaphthene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	Acenaphthylene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	Anthracene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	Benzo(a)anthracene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	Benzo(a)pyrene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	benzo(b&k)fluoranthene	A	<0.280U	ug/L	1	0.280	1.12	BGH3513	09/01/2023 06:15	KRB
SW-8270	Benzo(g,h,i)perylene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	Chrysene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	Diethyl phthalate	A	0.582V	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	Fluoranthene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	Fluorene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	Hexachlorobenzene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	Naphthalene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	Pentachlorophenol	A	<0.557U	ug/L	1	0.557	1.12	BGH3513	09/01/2023 06:15	KRB
SW-8270	Phenanthrene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	Phenol, Total	A	2.05V	ug/L	1	0.557	1.12	BGH3513	09/01/2023 06:15	KRB
SW-8270	Pyrene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 06:15	KRB
SW-8270	Surrogate: 2-Fluorobiphenyl-surr		93.8%	54.6-148					09/01/2023 06:15	
SW-8270	Surrogate: 2-Fluorophenol-surr		113%	55-152					09/01/2023 06:15	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		103%	52.4-136					09/01/2023 06:15	
SW-8270	Surrogate: Nitrobenzene-d5-surr		106%	52-162					09/01/2023 06:15	
SW-8270	Surrogate: Phenol-d5-surr		119%	58.7-152					09/01/2023 06:15	
SW-8270	Surrogate: p-Terphenyl-d14-surr		68.2%	51.9-147					09/01/2023 06:15	

Organics by GC

SW-8081	4,4'-DDD	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	4,4'-DDE	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	4,4'-DDT	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	Aldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala

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Project Manager: Sara Flaherty

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Sample Results
(Continued)

Client Sample ID: CPC-01-SW-230815 (Continued)
Lab Sample ID: 23H3257-02
Sample Alias:

Sample Matrix: Marine Water
Date Collected: 08/15/2023 8:38
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	Chlordane (Total)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	delta-BHC	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	Dieldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	Endosulfan I	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	Endosulfan II	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	Endosulfan sulfate	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	Endrin	A	<0.00600B, U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	Endrin aldehyde	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	Endrin ketone	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	gamma-Chlordane	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	Heptachlor	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	Heptachlor epoxide	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 12:14	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<0.300C+, U	ug/L	1	0.300	0.300	BGH3795	08/25/2023 12:14	ala

SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		130%	60-140					08/25/2023 12:14	
SW-8081	Surrogate: Decachlorobiphenyl-surr		114%	60-140					08/25/2023 12:14	
SW-8082	Aroclor-1016 (PCB-1016)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:19	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:19	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:19	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:19	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:19	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:19	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:19	ALA
SW-8082	Aroclor-1262 (PCB-1262)	N	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:19	ALA
SW-8082	Aroclor-1268 (PCB-1268)	N	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:19	ALA
SW-8082	PCBs, Total	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:19	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		94.3%	60-140					09/01/2023 08:19	
SW-8082	Surrogate: Decachlorobiphenyl-surr		69.7%	60-140					09/01/2023 08:19	

Metals, Total



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Sample Results
(Continued)

Client Sample ID: CPC-01-SW-230815 (Continued)
 Lab Sample ID: 23H3257-02
 Sample Alias:

Sample Matrix: Marine Water
 Date Collected: 08/15/2023 8:38
 Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Metals, Total (Continued)

EPA 245.1	Mercury	A	<0.150U	ug/L	1	0.150	0.200	BGH4732	08/29/2023 14:30	AKR
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Metals, Dissolved

EPA 200.8	Antimony	A	<1.00U	ug/L	5	1.00	5.00	BGH4284	08/29/2023 11:59	JKC
EPA 200.8	Arsenic	A	2.79	ug/L	5	0.500	2.50	BGH4284	08/29/2023 11:59	JKC
EPA 200.8	Cadmium	A	<0.250U	ug/L	5	0.250	5.00	BGH4284	08/29/2023 11:59	JKC
EPA 200.8	Chromium	A	1.06J	ug/L	5	0.400	15.0	BGH4284	08/29/2023 11:59	JKC
EPA 200.8	Copper	A	2.67V, J	ug/L	5	1.00	5.00	BGH4284	08/29/2023 11:59	JKC
EPA 200.8	Lead	A	0.579J	ug/L	5	0.500	2.50	BGH4284	08/29/2023 11:59	JKC
EPA 200.8	Nickel	A	1.96J	ug/L	5	0.250	5.00	BGH4284	08/29/2023 11:59	JKC
EPA 200.8	Silver	A	<0.150U	ug/L	5	0.150	2.50	BGH4284	08/29/2023 11:59	JKC
EPA 200.8	Zinc	A	3.42J	ug/L	5	1.00	10.0	BGH4284	08/29/2023 11:59	JKC

General Chemistry

EPA 350.1	Ammonia as N	A	0.482	mg/L	1	0.0200	0.0500	BGH3209	08/18/2023 10:54	TBB
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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-02-SW-230815
Lab Sample ID: 23H3257-03
Sample Alias:

Sample Matrix: Marine Water
Date Collected: 08/15/2023 9:43
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	2,4-Dichlorophenol	A	<0.555U	ug/L	1	0.555	1.12	BGH3513	09/01/2023 06:50	KRB
SW-8270	2,4-Dimethylphenol	A	<0.555U	ug/L	1	0.555	1.12	BGH3513	09/01/2023 06:50	KRB
SW-8270	2,4-Dinitrophenol	A	<4.46U	ug/L	1	4.46	4.46	BGH3513	09/01/2023 06:50	KRB
SW-8270	Acenaphthene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	Acenaphthylene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	Anthracene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	Benzo(a)anthracene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	Benzo(a)pyrene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	benzo(b&k)fluoranthene	A	<0.279U	ug/L	1	0.279	1.12	BGH3513	09/01/2023 06:50	KRB
SW-8270	Benzo(g,h,i)perylene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	Chrysene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	Diethyl phthalate	A	0.332V, J	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	Fluoranthene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	Fluorene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	Hexachlorobenzene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	Naphthalene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	Pentachlorophenol	A	<0.555U	ug/L	1	0.555	1.12	BGH3513	09/01/2023 06:50	KRB
SW-8270	Phenanthrene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB
SW-8270	Phenol, Total	A	1.89V	ug/L	1	0.555	1.12	BGH3513	09/01/2023 06:50	KRB
SW-8270	Pyrene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 06:50	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		94.3%	54.6-148					09/01/2023 06:50	
SW-8270	Surrogate: 2-Fluorophenol-surr		111%	55-152					09/01/2023 06:50	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		100%	52.4-136					09/01/2023 06:50	
SW-8270	Surrogate: Nitrobenzene-d5-surr		100%	52-162					09/01/2023 06:50	
SW-8270	Surrogate: Phenol-d5-surr		120%	58.7-152					09/01/2023 06:50	
SW-8270	Surrogate: p-Terphenyl-d14-surr		73.6%	51.9-147					09/01/2023 06:50	

Organics by GC

SW-8081	4,4'-DDD	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	4,4'-DDE	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	4,4'-DDT	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	Aldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala

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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-02-SW-230815 (Continued)
Lab Sample ID: 23H3257-03
Sample Alias:

Sample Matrix: Marine Water
Date Collected: 08/15/2023 9:43
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	Chlordane (Total)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	delta-BHC	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	Dieldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	Endosulfan I	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	Endosulfan II	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	Endosulfan sulfate	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	Endrin	A	<0.00600B, U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	Endrin aldehyde	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	Endrin ketone	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	gamma-Chlordane	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	Heptachlor	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	Heptachlor epoxide	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:11	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<0.300C+, U	ug/L	1	0.300	0.300	BGH3795	08/28/2023 23:11	ala

SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		139%	60-140					08/28/2023 23:11	
SW-8081	Surrogate: Decachlorobiphenyl-surr		119%	60-140					08/28/2023 23:11	
SW-8082	Aroclor-1016 (PCB-1016)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:56	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:56	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:56	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:56	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:56	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:56	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:56	ALA
SW-8082	Aroclor-1262 (PCB-1262)	N	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:56	ALA
SW-8082	Aroclor-1268 (PCB-1268)	N	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:56	ALA
SW-8082	PCBs, Total	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 08:56	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		109%	60-140					09/01/2023 08:56	
SW-8082	Surrogate: Decachlorobiphenyl-surr		51.6% S	60-140					09/01/2023 08:56	

Metals, Total



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Project: Galveston Bay 2023
 Project Number:
 Project Manager: Sara Flaherty

Reported:
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Sample Results
(Continued)

Client Sample ID: CPC-02-SW-230815 (Continued)
 Lab Sample ID: 23H3257-03
 Sample Alias:

Sample Matrix: Marine Water
 Date Collected: 08/15/2023 9:43
 Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Metals, Total (Continued)

EPA 245.1	Mercury	A	<0.150U	ug/L	1	0.150	0.200	BGH4732	08/29/2023 14:33	AKR
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Metals, Dissolved

EPA 200.8	Antimony	A	<1.00U	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:10	JKC
EPA 200.8	Arsenic	A	2.74	ug/L	5	0.500	2.50	BGH4284	08/29/2023 12:10	JKC
EPA 200.8	Cadmium	A	<0.250U	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:10	JKC
EPA 200.8	Chromium	A	0.529J	ug/L	5	0.400	15.0	BGH4284	08/29/2023 12:10	JKC
EPA 200.8	Copper	A	4.50V, J	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:10	JKC
EPA 200.8	Lead	A	<0.500U	ug/L	5	0.500	2.50	BGH4284	08/29/2023 12:10	JKC
EPA 200.8	Nickel	A	1.48J	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:10	JKC
EPA 200.8	Silver	A	<0.150U	ug/L	5	0.150	2.50	BGH4284	08/29/2023 12:10	JKC
EPA 200.8	Zinc	A	2.44J	ug/L	5	1.00	10.0	BGH4284	08/29/2023 12:10	JKC

General Chemistry

EPA 350.1	Ammonia as N	A	0.447	mg/L	1	0.0200	0.0500	BGH3209	08/18/2023 10:55	TBB
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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
10/27/2023 13:21

Sample Results (Continued)

Client Sample ID: CPC-03-SW-230815
Lab Sample ID: 23H3257-04
Sample Alias:

Sample Matrix: Marine Water
Date Collected: 08/15/2023 10:44
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	2,4-Dichlorophenol	A	<0.558U	ug/L	1	0.558	1.12	BGH3513	09/01/2023 07:25	KRB
SW-8270	2,4-Dimethylphenol	A	<0.558U	ug/L	1	0.558	1.12	BGH3513	09/01/2023 07:25	KRB
SW-8270	2,4-Dinitrophenol	A	<4.48U	ug/L	1	4.48	4.48	BGH3513	09/01/2023 07:25	KRB
SW-8270	Acenaphthene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	Acenaphthylene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	Anthracene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	Benzo(a)anthracene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	Benzo(a)pyrene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	benzo(b&k)fluoranthene	A	<0.280U	ug/L	1	0.280	1.12	BGH3513	09/01/2023 07:25	KRB
SW-8270	Benzo(g,h,i)perylene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	Chrysene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	Diethyl phthalate	A	0.503V, J	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	Fluoranthene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	Fluorene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	Hexachlorobenzene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	Naphthalene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	Pentachlorophenol	A	<0.558U	ug/L	1	0.558	1.12	BGH3513	09/01/2023 07:25	KRB
SW-8270	Phenanthrene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB
SW-8270	Phenol, Total	A	1.27V	ug/L	1	0.558	1.12	BGH3513	09/01/2023 07:25	KRB
SW-8270	Pyrene	A	<0.280U	ug/L	1	0.280	0.560	BGH3513	09/01/2023 07:25	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		84.6%	54.6-148					09/01/2023 07:25	
SW-8270	Surrogate: 2-Fluorophenol-surr		106%	55-152					09/01/2023 07:25	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		91.3%	52.4-136					09/01/2023 07:25	
SW-8270	Surrogate: Nitrobenzene-d5-surr		96.2%	52-162					09/01/2023 07:25	
SW-8270	Surrogate: Phenol-d5-surr		114%	58.7-152					09/01/2023 07:25	
SW-8270	Surrogate: p-Terphenyl-d14-surr		59.8%	51.9-147					09/01/2023 07:25	

Organics by GC

SW-8081	4,4'-DDD	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	4,4'-DDE	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	4,4'-DDT	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	Aldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala

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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

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Sample Results
(Continued)

Client Sample ID: CPC-03-SW-230815 (Continued)
Lab Sample ID: 23H3257-04
Sample Alias:

Sample Matrix: Marine Water
Date Collected: 08/15/2023 10:44
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	Chlordane (Total)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	delta-BHC	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	Dieldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	Endosulfan I	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	Endosulfan II	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	Endosulfan sulfate	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	Endrin	A	<0.00600B, U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	Endrin aldehyde	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	Endrin ketone	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	gamma-Chlordane	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	Heptachlor	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	Heptachlor epoxide	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/28/2023 23:46	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<0.300C+, U	ug/L	1	0.300	0.300	BGH3795	08/28/2023 23:46	ala

SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		138%	60-140					08/28/2023 23:46	
SW-8081	Surrogate: Decachlorobiphenyl-surr		118%	60-140					08/28/2023 23:46	
SW-8082	Aroclor-1016 (PCB-1016)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 09:31	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 09:31	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 09:31	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 09:31	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 09:31	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 09:31	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 09:31	ALA
SW-8082	Aroclor-1262 (PCB-1262)	N	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 09:31	ALA
SW-8082	Aroclor-1268 (PCB-1268)	N	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 09:31	ALA
SW-8082	PCBs, Total	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 09:31	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		92.3%	60-140					09/01/2023 09:31	
SW-8082	Surrogate: Decachlorobiphenyl-surr		63.1%	60-140					09/01/2023 09:31	

Metals, Total



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Sample Results
(Continued)

Client Sample ID: CPC-03-SW-230815 (Continued) Sample Matrix: Marine Water
 Lab Sample ID: 23H3257-04 Date Collected: 08/15/2023 10:44
 Sample Alias: Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Metals, Total (Continued)

EPA 245.1	Mercury	A	<0.150U	ug/L	1	0.150	0.200	BGH4732	08/29/2023 14:36	AKR
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Metals, Dissolved

EPA 200.8	Antimony	A	<1.00U	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:12	JKC
EPA 200.8	Arsenic	A	2.48J	ug/L	5	0.500	2.50	BGH4284	08/29/2023 12:12	JKC
EPA 200.8	Cadmium	A	<0.250U	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:12	JKC
EPA 200.8	Chromium	A	0.618J	ug/L	5	0.400	15.0	BGH4284	08/29/2023 12:12	JKC
EPA 200.8	Copper	A	2.07V, J	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:12	JKC
EPA 200.8	Lead	A	<0.500U	ug/L	5	0.500	2.50	BGH4284	08/29/2023 12:12	JKC
EPA 200.8	Nickel	A	1.66J	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:12	JKC
EPA 200.8	Silver	A	<0.150U	ug/L	5	0.150	2.50	BGH4284	08/29/2023 12:12	JKC
EPA 200.8	Zinc	A	4.89J	ug/L	5	1.00	10.0	BGH4284	08/29/2023 12:12	JKC

General Chemistry

EPA 350.1	Ammonia as N	A	0.496	mg/L	1	0.0200	0.0500	BGH3209	08/18/2023 10:56	TBB
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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-04-SW-230815
Lab Sample ID: 23H3257-05
Sample Alias:

Sample Matrix: Marine Water
Date Collected: 08/15/2023 11:55
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	2,4-Dichlorophenol	A	<0.558U	ug/L	1	0.558	1.12	BGH3513	09/01/2023 08:00	KRB
SW-8270	2,4-Dimethylphenol	A	<0.558U	ug/L	1	0.558	1.12	BGH3513	09/01/2023 08:00	KRB
SW-8270	2,4-Dinitrophenol	A	<4.49U	ug/L	1	4.49	4.49	BGH3513	09/01/2023 08:00	KRB
SW-8270	Acenaphthene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	Acenaphthylene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	Anthracene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	Benzo(a)anthracene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	Benzo(a)pyrene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	benzo(b&k)fluoranthene	A	<0.280U	ug/L	1	0.280	1.12	BGH3513	09/01/2023 08:00	KRB
SW-8270	Benzo(g,h,i)perylene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	Chrysene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	Diethyl phthalate	A	0.462V, J	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	Fluoranthene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	Fluorene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	Hexachlorobenzene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	Naphthalene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	Pentachlorophenol	A	<0.558U	ug/L	1	0.558	1.12	BGH3513	09/01/2023 08:00	KRB
SW-8270	Phenanthrene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB
SW-8270	Phenol, Total	A	1.39V	ug/L	1	0.558	1.12	BGH3513	09/01/2023 08:00	KRB
SW-8270	Pyrene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:00	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		88.2%	54.6-148					09/01/2023 08:00	
SW-8270	Surrogate: 2-Fluorophenol-surr		108%	55-152					09/01/2023 08:00	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		96.7%	52.4-136					09/01/2023 08:00	
SW-8270	Surrogate: Nitrobenzene-d5-surr		98.8%	52-162					09/01/2023 08:00	
SW-8270	Surrogate: Phenol-d5-surr		121%	58.7-152					09/01/2023 08:00	
SW-8270	Surrogate: p-Terphenyl-d14-surr		67.4%	51.9-147					09/01/2023 08:00	

Organics by GC

SW-8081	4,4'-DDD	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	4,4'-DDE	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	4,4'-DDT	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	Aldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala

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Project Number:
Project Manager: Sara Flaherty

Reported:
10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-04-SW-230815 (Continued)
Lab Sample ID: 23H3257-05
Sample Alias:

Sample Matrix: Marine Water
Date Collected: 08/15/2023 11:55
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	Chlordane (Total)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	delta-BHC	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	Dieldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	Endosulfan I	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	Endosulfan II	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	Endosulfan sulfate	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	Endrin	A	<0.00600B, U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	Endrin aldehyde	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	Endrin ketone	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	gamma-Chlordane	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	Heptachlor	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	Heptachlor epoxide	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 00:58	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<0.300C+, U	ug/L	1	0.300	0.300	BGH3795	08/29/2023 00:58	ala

SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		124%	60-140					08/29/2023 00:58	
SW-8081	Surrogate: Decachlorobiphenyl-surr		121%	60-140					08/29/2023 00:58	
SW-8082	Aroclor-1016 (PCB-1016)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:08	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:08	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:08	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:08	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:08	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:08	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:08	ALA
SW-8082	Aroclor-1262 (PCB-1262)	N	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:08	ALA
SW-8082	Aroclor-1268 (PCB-1268)	N	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:08	ALA
SW-8082	PCBs, Total	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:08	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		94.5%	60-140					09/01/2023 10:08	
SW-8082	Surrogate: Decachlorobiphenyl-surr		79.2%	60-140					09/01/2023 10:08	

Metals, Total



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Sample Results
(Continued)

Client Sample ID: CPC-04-SW-230815 (Continued) Sample Matrix: Marine Water
 Lab Sample ID: 23H3257-05 Date Collected: 08/15/2023 11:55
 Sample Alias: Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Metals, Total (Continued)

EPA 245.1	Mercury	A	<0.150U	ug/L	1	0.150	0.200	BGH4732	08/29/2023 14:40	AKR
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Metals, Dissolved

EPA 200.8	Antimony	A	<1.00U	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:15	JKC
EPA 200.8	Arsenic	A	2.69	ug/L	5	0.500	2.50	BGH4284	08/29/2023 12:15	JKC
EPA 200.8	Cadmium	A	<0.250U	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:15	JKC
EPA 200.8	Chromium	A	0.851J	ug/L	5	0.400	15.0	BGH4284	08/29/2023 12:15	JKC
EPA 200.8	Copper	A	2.16V, J	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:15	JKC
EPA 200.8	Lead	A	<0.500U	ug/L	5	0.500	2.50	BGH4284	08/29/2023 12:15	JKC
EPA 200.8	Nickel	A	1.71J	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:15	JKC
EPA 200.8	Silver	A	<0.150U	ug/L	5	0.150	2.50	BGH4284	08/29/2023 12:15	JKC
EPA 200.8	Zinc	A	4.20J	ug/L	5	1.00	10.0	BGH4284	08/29/2023 12:15	JKC

General Chemistry

EPA 350.1	Ammonia as N	A	0.444	mg/L	1	0.0200	0.0500	BGH3209	08/18/2023 10:57	TBB
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Seattle, WA 98101

Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
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Sample Results
(Continued)

Client Sample ID: CPC-05-SW-230816
Lab Sample ID: 23H3257-06
Sample Alias:

Sample Matrix: Marine Water
Date Collected: 08/16/2023 8:57
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	2,4-Dichlorophenol	A	<0.558U	ug/L	1	0.558	1.12	BGH3513	09/01/2023 08:35	KRB
SW-8270	2,4-Dimethylphenol	A	<0.558U	ug/L	1	0.558	1.12	BGH3513	09/01/2023 08:35	KRB
SW-8270	2,4-Dinitrophenol	A	<4.49U	ug/L	1	4.49	4.49	BGH3513	09/01/2023 08:35	KRB
SW-8270	Acenaphthene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	Acenaphthylene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	Anthracene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	Benzo(a)anthracene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	Benzo(a)pyrene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	benzo(b&k)fluoranthene	A	<0.280U	ug/L	1	0.280	1.12	BGH3513	09/01/2023 08:35	KRB
SW-8270	Benzo(g,h,i)perylene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	Chrysene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	Diethyl phthalate	A	0.509V, J	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	Fluoranthene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	Fluorene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	Hexachlorobenzene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	Naphthalene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	Pentachlorophenol	A	<0.558U	ug/L	1	0.558	1.12	BGH3513	09/01/2023 08:35	KRB
SW-8270	Phenanthrene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB
SW-8270	Phenol, Total	A	1.48V	ug/L	1	0.558	1.12	BGH3513	09/01/2023 08:35	KRB
SW-8270	Pyrene	A	<0.280U	ug/L	1	0.280	0.561	BGH3513	09/01/2023 08:35	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		95.6%	54.6-148					09/01/2023 08:35	
SW-8270	Surrogate: 2-Fluorophenol-surr		111%	55-152					09/01/2023 08:35	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		104%	52.4-136					09/01/2023 08:35	
SW-8270	Surrogate: Nitrobenzene-d5-surr		105%	52-162					09/01/2023 08:35	
SW-8270	Surrogate: Phenol-d5-surr		122%	58.7-152					09/01/2023 08:35	
SW-8270	Surrogate: p-Terphenyl-d14-surr		62.1%	51.9-147					09/01/2023 08:35	

Organics by GC

SW-8081	4,4'-DDD	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	4,4'-DDE	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	4,4'-DDT	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	Aldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala

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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
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Sample Results
(Continued)

Client Sample ID: CPC-05-SW-230816 (Continued)
Lab Sample ID: 23H3257-06
Sample Alias:

Sample Matrix: Marine Water
Date Collected: 08/16/2023 8:57
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	Chlordane (Total)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	delta-BHC	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	Dieldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	Endosulfan I	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	Endosulfan II	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	Endosulfan sulfate	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	Endrin	A	<0.00600B, U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	Endrin aldehyde	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	Endrin ketone	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	gamma-Chlordane	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	Heptachlor	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	Heptachlor epoxide	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 01:34	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<0.300C+, U	ug/L	1	0.300	0.300	BGH3795	08/29/2023 01:34	ala

SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		137%	60-140					08/29/2023 01:34	
SW-8081	Surrogate: Decachlorobiphenyl-surr		116%	60-140					08/29/2023 01:34	
SW-8082	Aroclor-1016 (PCB-1016)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:45	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:45	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:45	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:45	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:45	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:45	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:45	ALA
SW-8082	Aroclor-1262 (PCB-1262)	N	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:45	ALA
SW-8082	Aroclor-1268 (PCB-1268)	N	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:45	ALA
SW-8082	PCBs, Total	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 10:45	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		109%	60-140					09/01/2023 10:45	
SW-8082	Surrogate: Decachlorobiphenyl-surr		48.2% S	60-140					09/01/2023 10:45	

Metals, Total



Anchor QEA, LLC 1201 3rd Avenue, Suite 2600 Seattle, WA 98101	Project: Galveston Bay 2023 Project Number: Project Manager: Sara Flaherty	Reported: 10/27/2023 13:21
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Sample Results
(Continued)

Client Sample ID: CPC-05-SW-230816 (Continued) Sample Matrix: Marine Water
 Lab Sample ID: 23H3257-06 Date Collected: 08/16/2023 8:57
 Sample Alias: Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Metals, Total (Continued)

EPA 245.1	Mercury	A	<0.150U	ug/L	1	0.150	0.200	BGH4732	08/29/2023 14:43	AKR
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Metals, Dissolved

EPA 200.8	Antimony	A	<1.00U	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:38	JKC
EPA 200.8	Arsenic	A	3.06	ug/L	5	0.500	2.50	BGH4284	08/29/2023 12:38	JKC
EPA 200.8	Cadmium	A	0.531J	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:38	JKC
EPA 200.8	Chromium	A	0.960J	ug/L	5	0.400	15.0	BGH4284	08/30/2023 08:53	JKC
EPA 200.8	Copper	A	3.22V, J	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:38	JKC
EPA 200.8	Lead	A	<0.500U	ug/L	5	0.500	2.50	BGH4284	08/31/2023 14:39	JKC
EPA 200.8	Nickel	A	2.75J	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:38	JKC
EPA 200.8	Silver	A	0.231J	ug/L	5	0.150	2.50	BGH4284	08/29/2023 12:38	JKC
EPA 200.8	Zinc	A	4.78J	ug/L	5	1.00	10.0	BGH4284	08/29/2023 12:38	JKC

General Chemistry

EPA 350.1	Ammonia as N	A	0.471	mg/L	1	0.0200	0.0500	BGH3209	08/18/2023 10:58	TBB
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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
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Sample Results
(Continued)

Client Sample ID: CPC-06-SW-230816
Lab Sample ID: 23H3257-07
Sample Alias:

Sample Matrix: Marine Water
Date Collected: 08/16/2023 10:11
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	2,4-Dichlorophenol	A	<0.557U	ug/L	1	0.557	1.12	BGH3513	09/01/2023 09:09	KRB
SW-8270	2,4-Dimethylphenol	A	<0.557U	ug/L	1	0.557	1.12	BGH3513	09/01/2023 09:09	KRB
SW-8270	2,4-Dinitrophenol	A	<4.47U	ug/L	1	4.47	4.47	BGH3513	09/01/2023 09:09	KRB
SW-8270	Acenaphthene	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	Acenaphthylene	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	Anthracene	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	Benzo(a)anthracene	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	Benzo(a)pyrene	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	benzo(b&k)fluoranthene	A	<0.279U	ug/L	1	0.279	1.12	BGH3513	09/01/2023 09:09	KRB
SW-8270	Benzo(g,h,i)perylene	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	Chrysene	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	Diethyl phthalate	A	0.469V, J	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	Fluoranthene	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	Fluorene	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	Hexachlorobenzene	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	Naphthalene	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	Pentachlorophenol	A	<0.557U	ug/L	1	0.557	1.12	BGH3513	09/01/2023 09:09	KRB
SW-8270	Phenanthrene	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB
SW-8270	Phenol, Total	A	1.37V	ug/L	1	0.557	1.12	BGH3513	09/01/2023 09:09	KRB
SW-8270	Pyrene	A	<0.279U	ug/L	1	0.279	0.559	BGH3513	09/01/2023 09:09	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		92.5%	54.6-148					09/01/2023 09:09	
SW-8270	Surrogate: 2-Fluorophenol-surr		109%	55-152					09/01/2023 09:09	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		98.2%	52.4-136					09/01/2023 09:09	
SW-8270	Surrogate: Nitrobenzene-d5-surr		99.3%	52-162					09/01/2023 09:09	
SW-8270	Surrogate: Phenol-d5-surr		118%	58.7-152					09/01/2023 09:09	
SW-8270	Surrogate: p-Terphenyl-d14-surr		61.6%	51.9-147					09/01/2023 09:09	

Organics by GC

SW-8081	4,4'-DDD	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	4,4'-DDE	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	4,4'-DDT	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	Aldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala

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Project Manager: Sara Flaherty

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10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-06-SW-230816 (Continued)
Lab Sample ID: 23H3257-07
Sample Alias:

Sample Matrix: Marine Water
Date Collected: 08/16/2023 10:11
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	Chlordane (Total)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	delta-BHC	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	Dieldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	Endosulfan I	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	Endosulfan II	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	Endosulfan sulfate	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	Endrin	A	<0.00600B, U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	Endrin aldehyde	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	Endrin ketone	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	gamma-Chlordane	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	Heptachlor	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	Heptachlor epoxide	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:09	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<0.300C+, U	ug/L	1	0.300	0.300	BGH3795	08/29/2023 02:09	ala

SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		126%	60-140					08/29/2023 02:09	
SW-8081	Surrogate: Decachlorobiphenyl-surr		118%	60-140					08/29/2023 02:09	
SW-8082	Aroclor-1016 (PCB-1016)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:22	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:22	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:22	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:22	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:22	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:22	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:22	ALA
SW-8082	Aroclor-1262 (PCB-1262)	N	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:22	ALA
SW-8082	Aroclor-1268 (PCB-1268)	N	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:22	ALA
SW-8082	PCBs, Total	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:22	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		110%	60-140					09/01/2023 11:22	
SW-8082	Surrogate: Decachlorobiphenyl-surr		51.8% S	60-140					09/01/2023 11:22	

Metals, Total



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Project: Galveston Bay 2023
 Project Number:
 Project Manager: Sara Flaherty

Reported:
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Sample Results
(Continued)

Client Sample ID: CPC-06-SW-230816 (Continued)
 Lab Sample ID: 23H3257-07
 Sample Alias:

Sample Matrix: Marine Water
 Date Collected: 08/16/2023 10:11
 Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Metals, Total (Continued)

EPA 245.1	Mercury	A	<0.150U	ug/L	1	0.150	0.200	BGH4732	08/29/2023 14:53	AKR
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Metals, Dissolved

EPA 200.8	Antimony	A	<1.00U	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:25	JKC
EPA 200.8	Arsenic	A	2.60	ug/L	5	0.500	2.50	BGH4284	08/29/2023 12:25	JKC
EPA 200.8	Cadmium	A	<0.250U	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:25	JKC
EPA 200.8	Chromium	A	1.00J	ug/L	5	0.400	15.0	BGH4284	08/30/2023 08:39	JKC
EPA 200.8	Copper	A	1.90V, J	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:25	JKC
EPA 200.8	Lead	A	<0.500U	ug/L	5	0.500	2.50	BGH4284	08/31/2023 14:26	JKC
EPA 200.8	Nickel	A	1.58J	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:25	JKC
EPA 200.8	Silver	A	<0.150U	ug/L	5	0.150	2.50	BGH4284	08/29/2023 12:25	JKC
EPA 200.8	Zinc	A	1.85J	ug/L	5	1.00	10.0	BGH4284	08/29/2023 12:25	JKC

General Chemistry

EPA 350.1	Ammonia as N	A	0.483	mg/L	1	0.0200	0.0500	BGH3209	08/18/2023 10:59	TBB
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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-07-SW-230816
Lab Sample ID: 23H3257-08
Sample Alias:

Sample Matrix: Marine Water
Date Collected: 08/16/2023 11:18
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	2,4-Dichlorophenol	A	<0.555U	ug/L	1	0.555	1.12	BGH3513	09/01/2023 09:44	KRB
SW-8270	2,4-Dimethylphenol	A	<0.555U	ug/L	1	0.555	1.12	BGH3513	09/01/2023 09:44	KRB
SW-8270	2,4-Dinitrophenol	A	<4.46U	ug/L	1	4.46	4.46	BGH3513	09/01/2023 09:44	KRB
SW-8270	Acenaphthene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	Acenaphthylene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	Anthracene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	Benzo(a)anthracene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	Benzo(a)pyrene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	benzo(b&k)fluoranthene	A	<0.279U	ug/L	1	0.279	1.12	BGH3513	09/01/2023 09:44	KRB
SW-8270	Benzo(g,h,i)perylene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	Chrysene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	Diethyl phthalate	A	0.457V, J	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	Fluoranthene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	Fluorene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	Hexachlorobenzene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	Naphthalene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	Pentachlorophenol	A	<0.555U	ug/L	1	0.555	1.12	BGH3513	09/01/2023 09:44	KRB
SW-8270	Phenanthrene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB
SW-8270	Phenol, Total	A	1.21V	ug/L	1	0.555	1.12	BGH3513	09/01/2023 09:44	KRB
SW-8270	Pyrene	A	<0.279U	ug/L	1	0.279	0.558	BGH3513	09/01/2023 09:44	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		92.6%	54.6-148					09/01/2023 09:44	
SW-8270	Surrogate: 2-Fluorophenol-surr		104%	55-152					09/01/2023 09:44	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		107%	52.4-136					09/01/2023 09:44	
SW-8270	Surrogate: Nitrobenzene-d5-surr		101%	52-162					09/01/2023 09:44	
SW-8270	Surrogate: Phenol-d5-surr		120%	58.7-152					09/01/2023 09:44	
SW-8270	Surrogate: p-Terphenyl-d14-surr		77.7%	51.9-147					09/01/2023 09:44	

Organics by GC

SW-8081	4,4'-DDD	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	4,4'-DDE	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	4,4'-DDT	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	Aldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala

Anchor QEA, LLC
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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-07-SW-230816 (Continued)
Lab Sample ID: 23H3257-08
Sample Alias:

Sample Matrix: Marine Water
Date Collected: 08/16/2023 11:18
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	0.00613	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	Chlordane (Total)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	delta-BHC	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	Dieldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	Endosulfan I	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	Endosulfan II	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	Endosulfan sulfate	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	Endrin	A	<0.00600B, U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	Endrin aldehyde	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	Endrin ketone	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	gamma-Chlordane	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	Heptachlor	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	Heptachlor epoxide	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/29/2023 02:44	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<0.300C+, U	ug/L	1	0.300	0.300	BGH3795	08/29/2023 02:44	ala

SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		121%	60-140					08/29/2023 02:44	
SW-8081	Surrogate: Decachlorobiphenyl-surr		119%	60-140					08/29/2023 02:44	
SW-8082	Aroclor-1016 (PCB-1016)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:59	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:59	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:59	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:59	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:59	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:59	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:59	ALA
SW-8082	Aroclor-1262 (PCB-1262)	N	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:59	ALA
SW-8082	Aroclor-1268 (PCB-1268)	N	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:59	ALA
SW-8082	PCBs, Total	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 11:59	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		120%	60-140					09/01/2023 11:59	
SW-8082	Surrogate: Decachlorobiphenyl-surr		80.3%	60-140					09/01/2023 11:59	

Metals, Total



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Sample Results
(Continued)

Client Sample ID: CPC-07-SW-230816 (Continued) Sample Matrix: Marine Water
 Lab Sample ID: 23H3257-08 Date Collected: 08/16/2023 11:18
 Sample Alias: Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Metals, Total (Continued)

EPA 245.1	Mercury	A	<0.150U	ug/L	1	0.150	0.200	BGH4732	08/29/2023 14:16	AKR
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Metals, Dissolved

EPA 200.8	Antimony	A	<1.00U	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:28	JKC
EPA 200.8	Arsenic	A	2.81	ug/L	5	0.500	2.50	BGH4284	08/29/2023 12:28	JKC
EPA 200.8	Cadmium	A	<0.250U	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:28	JKC
EPA 200.8	Chromium	A	0.632J	ug/L	5	0.400	15.0	BGH4284	08/30/2023 08:42	JKC
EPA 200.8	Copper	A	2.32V, J	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:28	JKC
EPA 200.8	Lead	A	<0.500U	ug/L	5	0.500	2.50	BGH4284	08/31/2023 14:28	JKC
EPA 200.8	Nickel	A	1.53J	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:28	JKC
EPA 200.8	Silver	A	<0.150U	ug/L	5	0.150	2.50	BGH4284	08/29/2023 12:28	JKC
EPA 200.8	Zinc	A	1.76J	ug/L	5	1.00	10.0	BGH4284	08/29/2023 12:28	JKC

General Chemistry

EPA 350.1	Ammonia as N	A	0.463	mg/L	1	0.0200	0.0500	BGH3209	08/18/2023 11:02	TBB
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Anchor QEA, LLC
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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-01-SET-230815
Lab Sample ID: 23H3257-09
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 08/15/2023 8:58
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	2,4-Dichlorophenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	08/31/2023 21:32	KRB
SW-8270	2,4-Dimethylphenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	08/31/2023 21:32	KRB
SW-8270	2,4-Dinitrophenol	A	<4.50U	ug/L	1	4.50	4.50	BGH4445	08/31/2023 21:32	KRB
SW-8270	Acenaphthene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	Acenaphthylene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	Anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	Benzo(a)anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	Benzo(a)pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	benzo(b&k)fluoranthene	A	<0.562U	ug/L	1	0.562	1.12	BGH4445	08/31/2023 21:32	KRB
SW-8270	Benzo(g,h,i)perylene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	Chrysene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	Diethyl phthalate	A	0.533V, V2, J	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	Fluoranthene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	Fluorene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	Hexachlorobenzene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	Naphthalene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	Pentachlorophenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	08/31/2023 21:32	KRB
SW-8270	Phenanthrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB
SW-8270	Phenol, Total	A	1.04V, V2, J	ug/L	1	0.560	1.12	BGH4445	08/31/2023 21:32	KRB
SW-8270	Pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 21:32	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		86.7%	54.6-148					08/31/2023 21:32	
SW-8270	Surrogate: 2-Fluorophenol-surr		103%	55-152					08/31/2023 21:32	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		95.0%	52.4-136					08/31/2023 21:32	
SW-8270	Surrogate: Nitrobenzene-d5-surr		96.4%	52-162					08/31/2023 21:32	
SW-8270	Surrogate: Phenol-d5-surr		114%	58.7-152					08/31/2023 21:32	
SW-8270	Surrogate: p-Terphenyl-d14-surr		73.7%	51.9-147					08/31/2023 21:32	

Elutriate Organics by GC

SW-8082	Aroclor-1016 (PCB-1016)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 03:25	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 03:25	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 03:25	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 03:25	ALA



Anchor QEA, LLC 1201 3rd Avenue, Suite 2600 Seattle, WA 98101	Project: Galveston Bay 2023 Project Number: Project Manager: Sara Flaherty	Reported: 10/27/2023 13:21
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Sample Results
(Continued)

Client Sample ID: CPC-01-SET-230815 (Continued) Sample Matrix: Elutriate
 Lab Sample ID: 23H3257-09 Date Collected: 08/15/2023 8:58
 Sample Alias: Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Organics by GC (Continued)

SW-8082	Aroclor-1248 (PCB-1248)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 03:25	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 03:25	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 03:25	ALA
SW-8082	PCBs, Total	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 03:25	ALA
<i>SW-8082</i>	<i>Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr</i>		<i>101%</i>	<i>60-140</i>					<i>09/01/2023 03:25</i>	
<i>SW-8082</i>	<i>Surrogate: Decachlorobiphenyl-surr</i>		<i>57.6% S</i>	<i>60-140</i>					<i>09/01/2023 03:25</i>	

Elutriate Metals, Dissolved

EPA 200.8	Antimony	A	1.67J	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:31	JKC
EPA 200.8	Arsenic	A	3.35	ug/L	5	0.500	2.50	BGH4284	08/29/2023 12:31	JKC
EPA 200.8	Cadmium	A	<0.250U	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:31	JKC
EPA 200.8	Chromium	A	0.604V2, J	ug/L	5	0.400	15.0	BGH4284	08/30/2023 08:45	JKC
EPA 200.8	Copper	A	<1.00B, B2, U	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:31	JKC
EPA 200.8	Lead	A	<0.500U	ug/L	5	0.500	2.50	BGH4284	08/31/2023 14:31	JKC
EPA 200.8	Nickel	A	2.22V2, J	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:31	JKC
EPA 200.8	Silver	A	<0.150U	ug/L	5	0.150	2.50	BGH4284	08/29/2023 12:31	JKC
EPA 200.8	Zinc	A	2.22V2, J	ug/L	5	1.00	10.0	BGH4284	08/29/2023 12:31	JKC

Elutriate General Chemistry

EPA 350.1	Ammonia as N	A	4.13	mg/L	5	0.100	0.250	BGH4002	08/24/2023 11:59	TBB
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Anchor QEA, LLC
1201 3rd Avenue, Suite 2600
Seattle, WA 98101

Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-01-SET-230815
Lab Sample ID: 23H3257-09RE1
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 08/15/2023 8:58
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Organics by GC

SW-8081	4,4'-DDD (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	4,4'-DDE (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	4,4'-DDT (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	Aldrin (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane) (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane) (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	Chlordane (Total) (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	cis-Chlordane (alpha-Chlordane) (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	delta-BHC (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	Dieldrin (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	Endosulfan I (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	Endosulfan II (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	Endosulfan sulfate (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	Endrin (Rerun)	A	<0.00600B, U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	Endrin aldehyde (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	Endrin ketone (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane) (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	gamma-Chlordane (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	Heptachlor (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	Heptachlor epoxide (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	09/05/2023 20:14	ala
SW-8081	Toxaphene (Chlorinated Camphene) (Rerun)	A	<0.300U	ug/L	1	0.300	0.300	BGH3795	09/05/2023 20:14	ala
SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		120%	60-140					09/05/2023 20:14	
SW-8081	Surrogate: Decachlorobiphenyl-surr (Rerun)		81.7%	60-140					09/05/2023 20:14	

Elutriate Metals, Total

EPA 245.1	Mercury (Rerun)	A	<0.150U	ug/L	1	0.150	0.200	BGH4560	08/28/2023 14:15	AKR
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Anchor QEA, LLC
1201 3rd Avenue, Suite 2600
Seattle, WA 98101

Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-02-SET-230815
Lab Sample ID: 23H3257-10
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 08/15/2023 9:59
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	2,4-Dichlorophenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	08/31/2023 22:07	KRB
SW-8270	2,4-Dimethylphenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	08/31/2023 22:07	KRB
SW-8270	2,4-Dinitrophenol	A	<4.50U	ug/L	1	4.50	4.50	BGH4445	08/31/2023 22:07	KRB
SW-8270	Acenaphthene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	Acenaphthylene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	Anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	Benzo(a)anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	Benzo(a)pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	benzo(b&k)fluoranthene	A	<0.562U	ug/L	1	0.562	1.12	BGH4445	08/31/2023 22:07	KRB
SW-8270	Benzo(g,h,i)perylene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	Chrysene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	Diethyl phthalate	A	0.430V, V2, J	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	Fluoranthene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	Fluorene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	Hexachlorobenzene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	Naphthalene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	Pentachlorophenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	08/31/2023 22:07	KRB
SW-8270	Phenanthrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB
SW-8270	Phenol, Total	A	1.20V, V2	ug/L	1	0.560	1.12	BGH4445	08/31/2023 22:07	KRB
SW-8270	Pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:07	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		91.9%	54.6-148					08/31/2023 22:07	
SW-8270	Surrogate: 2-Fluorophenol-surr		103%	55-152					08/31/2023 22:07	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		109%	52.4-136					08/31/2023 22:07	
SW-8270	Surrogate: Nitrobenzene-d5-surr		99.5%	52-162					08/31/2023 22:07	
SW-8270	Surrogate: Phenol-d5-surr		106%	58.7-152					08/31/2023 22:07	
SW-8270	Surrogate: p-Terphenyl-d14-surr		77.6%	51.9-147					08/31/2023 22:07	

Elutriate Organics by GC

SW-8081	4,4'-DDD	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	4,4'-DDE	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	4,4'-DDT	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	Aldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala

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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

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10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-02-SET-230815 (Continued)
Lab Sample ID: 23H3257-10
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 08/15/2023 9:59
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	Chlordane (Total)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	delta-BHC	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	Dieldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	Endosulfan I	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	Endosulfan II	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	Endosulfan sulfate	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	Endrin	A	<0.00600B, U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	Endrin aldehyde	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	Endrin ketone	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	gamma-Chlordane	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	Heptachlor	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	Heptachlor epoxide	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 05:29	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<0.300C+, U	ug/L	1	0.300	0.300	BGH3795	08/25/2023 05:29	ala

SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		162% S	60-140					08/25/2023 05:29	
SW-8081	Surrogate: Decachlorobiphenyl-surr		111%	60-140					08/25/2023 05:29	
SW-8082	Aroclor-1016 (PCB-1016)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 04:02	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 04:02	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 04:02	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 04:02	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 04:02	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 04:02	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 04:02	ALA
SW-8082	PCBs, Total	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 04:02	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		94.1%	60-140					09/01/2023 04:02	
SW-8082	Surrogate: Decachlorobiphenyl-surr		66.1%	60-140					09/01/2023 04:02	

Elutriate Metals, Dissolved

EPA 200.8	Antimony	A	3.12J	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:33	JKC
EPA 200.8	Arsenic	A	14.8	ug/L	5	0.500	2.50	BGH4284	08/29/2023 12:33	JKC



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 Project Number:
 Project Manager: Sara Flaherty

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Sample Results
(Continued)

Client Sample ID: CPC-02-SET-230815 (Continued)
 Lab Sample ID: 23H3257-10
 Sample Alias:

Sample Matrix: Elutriate
 Date Collected: 08/15/2023 9:59
 Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Metals, Dissolved (Continued)

EPA 200.8	Cadmium	A	<0.250U	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:33	JKC
EPA 200.8	Chromium	A	<0.400B2, U	ug/L	5	0.400	15.0	BGH4284	08/30/2023 08:47	JKC
EPA 200.8	Copper	A	1.23V, V2, J	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:33	JKC
EPA 200.8	Lead	A	<0.500U	ug/L	5	0.500	2.50	BGH4284	08/31/2023 14:33	JKC
EPA 200.8	Nickel	A	1.97V2, J	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:33	JKC
EPA 200.8	Silver	A	<0.150U	ug/L	5	0.150	2.50	BGH4284	08/29/2023 12:33	JKC
EPA 200.8	Zinc	A	1.35V2, J	ug/L	5	1.00	10.0	BGH4284	08/29/2023 12:33	JKC

Elutriate General Chemistry

EPA 350.1	Ammonia as N	A	0.975	mg/L	1	0.0200	0.0500	BGH4002	08/24/2023 10:03	TBB
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Project: Galveston Bay 2023
 Project Number:
 Project Manager: Sara Flaherty

Reported:
 10/27/2023 13:21

Sample Results
 (Continued)

Client Sample ID: CPC-02-SET-230815
 Lab Sample ID: 23H3257-10RE1
 Sample Alias:

Sample Matrix: Elutriate
 Date Collected: 08/15/2023 9:59
 Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Metals, Total

EPA 245.1	Mercury (Rerun)	A	<0.150U	ug/L	1	0.150	0.200	BGH4560	08/28/2023 14:25	AKR
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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-03-SET-230815
Lab Sample ID: 23H3257-11
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 08/15/2023 11:09
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	2,4-Dichlorophenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	08/31/2023 22:42	KRB
SW-8270	2,4-Dimethylphenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	08/31/2023 22:42	KRB
SW-8270	2,4-Dinitrophenol	A	<4.50U	ug/L	1	4.50	4.50	BGH4445	08/31/2023 22:42	KRB
SW-8270	Acenaphthene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	Acenaphthylene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	Anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	Benzo(a)anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	Benzo(a)pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	benzo(b&k)fluoranthene	A	<0.562U	ug/L	1	0.562	1.12	BGH4445	08/31/2023 22:42	KRB
SW-8270	Benzo(g,h,i)perylene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	Chrysene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	Diethyl phthalate	A	0.400V, V2, J	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	Fluoranthene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	Fluorene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	Hexachlorobenzene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	Naphthalene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	Pentachlorophenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	08/31/2023 22:42	KRB
SW-8270	Phenanthrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB
SW-8270	Phenol, Total	A	1.03V, V2, J	ug/L	1	0.560	1.12	BGH4445	08/31/2023 22:42	KRB
SW-8270	Pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 22:42	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		86.3%	54.6-148					08/31/2023 22:42	
SW-8270	Surrogate: 2-Fluorophenol-surr		105%	55-152					08/31/2023 22:42	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		106%	52.4-136					08/31/2023 22:42	
SW-8270	Surrogate: Nitrobenzene-d5-surr		99.7%	52-162					08/31/2023 22:42	
SW-8270	Surrogate: Phenol-d5-surr		111%	58.7-152					08/31/2023 22:42	
SW-8270	Surrogate: p-Terphenyl-d14-surr		78.9%	51.9-147					08/31/2023 22:42	

Elutriate Organics by GC

SW-8081	4,4'-DDD	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	4,4'-DDE	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	4,4'-DDT	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	Aldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala

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Reported:
10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-03-SET-230815 (Continued)
Lab Sample ID: 23H3257-11
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 08/15/2023 11:09
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	Chlordane (Total)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	delta-BHC	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	Dieldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	Endosulfan I	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	Endosulfan II	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	Endosulfan sulfate	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	Endrin	A	<0.00600B, U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	Endrin aldehyde	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	Endrin ketone	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	gamma-Chlordane	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	Heptachlor	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	Heptachlor epoxide	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 06:05	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<0.300C+, U	ug/L	1	0.300	0.300	BGH3795	08/25/2023 06:05	ala
SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		155% S	60-140					08/25/2023 06:05	
SW-8081	Surrogate: Decachlorobiphenyl-surr		88.0%	60-140					08/25/2023 06:05	
SW-8082	Aroclor-1016 (PCB-1016)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 04:39	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 04:39	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 04:39	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 04:39	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 04:39	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 04:39	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 04:39	ALA
SW-8082	PCBs, Total	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 04:39	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		102%	60-140					09/01/2023 04:39	
SW-8082	Surrogate: Decachlorobiphenyl-surr		59.7% S	60-140					09/01/2023 04:39	

Elutriate Metals, Dissolved

EPA 200.8	Antimony	A	3.72J	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:36	JKC
EPA 200.8	Arsenic	A	15.4	ug/L	5	0.500	2.50	BGH4284	08/29/2023 12:36	JKC



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 Project Number:
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Sample Results
(Continued)

Client Sample ID: CPC-03-SET-230815 (Continued)
 Lab Sample ID: 23H3257-11
 Sample Alias:

Sample Matrix: Elutriate
 Date Collected: 08/15/2023 11:09
 Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Metals, Dissolved (Continued)

EPA 200.8	Cadmium	A	<0.250U	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:36	JKC
EPA 200.8	Chromium	A	0.454V2, J	ug/L	5	0.400	15.0	BGH4284	08/30/2023 08:50	JKC
EPA 200.8	Copper	A	<1.00B, B2, U	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:36	JKC
EPA 200.8	Lead	A	<0.500U	ug/L	5	0.500	2.50	BGH4284	08/31/2023 14:36	JKC
EPA 200.8	Nickel	A	1.72V2, J	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:36	JKC
EPA 200.8	Silver	A	<0.150U	ug/L	5	0.150	2.50	BGH4284	08/29/2023 12:36	JKC
EPA 200.8	Zinc	A	<1.00B2, U	ug/L	5	1.00	10.0	BGH4284	08/29/2023 12:36	JKC

Elutriate General Chemistry

EPA 350.1	Ammonia as N	A	1.78	mg/L	5	0.100	0.250	BGH4002	08/24/2023 12:00	TBB
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Project: Galveston Bay 2023
 Project Number:
 Project Manager: Sara Flaherty

Reported:
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Sample Results
 (Continued)

Client Sample ID: CPC-03-SET-230815
 Lab Sample ID: 23H3257-11RE1
 Sample Alias:

Sample Matrix: Elutriate
 Date Collected: 08/15/2023 11:09
 Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Metals, Total

EPA 245.1	Mercury (Rerun)	A	<0.150U	ug/L	1	0.150	0.200	BGH4560	08/28/2023 14:28	AKR
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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-04-SET-230815
Lab Sample ID: 23H3257-12
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 08/15/2023 11:55
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	2,4-Dichlorophenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	08/31/2023 23:17	KRB
SW-8270	2,4-Dimethylphenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	08/31/2023 23:17	KRB
SW-8270	2,4-Dinitrophenol	A	<4.50U	ug/L	1	4.50	4.50	BGH4445	08/31/2023 23:17	KRB
SW-8270	Acenaphthene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	Acenaphthylene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	Anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	Benzo(a)anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	Benzo(a)pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	benzo(b&k)fluoranthene	A	<0.562U	ug/L	1	0.562	1.12	BGH4445	08/31/2023 23:17	KRB
SW-8270	Benzo(g,h,i)perylene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	Chrysene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	Diethyl phthalate	A	0.409V, V2, J	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	Fluoranthene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	Fluorene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	Hexachlorobenzene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	Naphthalene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	Pentachlorophenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	08/31/2023 23:17	KRB
SW-8270	Phenanthrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB
SW-8270	Phenol, Total	A	0.898V, V2, J	ug/L	1	0.560	1.12	BGH4445	08/31/2023 23:17	KRB
SW-8270	Pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:17	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		84.6%	54.6-148					08/31/2023 23:17	
SW-8270	Surrogate: 2-Fluorophenol-surr		97.2%	55-152					08/31/2023 23:17	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		101%	52.4-136					08/31/2023 23:17	
SW-8270	Surrogate: Nitrobenzene-d5-surr		93.1%	52-162					08/31/2023 23:17	
SW-8270	Surrogate: Phenol-d5-surr		101%	58.7-152					08/31/2023 23:17	
SW-8270	Surrogate: p-Terphenyl-d14-surr		75.0%	51.9-147					08/31/2023 23:17	

Elutriate Organics by GC

SW-8081	4,4'-DDD	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	4,4'-DDE	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	4,4'-DDT	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	Aldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala

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Sample Results
(Continued)

Client Sample ID: CPC-04-SET-230815 (Continued)
Lab Sample ID: 23H3257-12
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 08/15/2023 11:55
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	Chlordane (Total)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	delta-BHC	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	Dieldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	Endosulfan I	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	Endosulfan II	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	Endosulfan sulfate	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	Endrin	A	<0.00600B, U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	Endrin aldehyde	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	Endrin ketone	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	gamma-Chlordane	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	Heptachlor	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	Heptachlor epoxide	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 07:51	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<0.300C+, U	ug/L	1	0.300	0.300	BGH3795	08/25/2023 07:51	ala
SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		175% S	60-140					08/25/2023 07:51	
SW-8081	Surrogate: Decachlorobiphenyl-surr		110%	60-140					08/25/2023 07:51	
SW-8082	Aroclor-1016 (PCB-1016)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 05:15	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 05:15	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 05:15	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 05:15	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 05:15	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 05:15	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 05:15	ALA
SW-8082	PCBs, Total	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 05:15	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		110%	60-140					09/01/2023 05:15	
SW-8082	Surrogate: Decachlorobiphenyl-surr		62.7%	60-140					09/01/2023 05:15	

Elutriate Metals, Dissolved

EPA 200.8	Antimony	A	1.04J	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:46	JKC
EPA 200.8	Arsenic	A	2.07J	ug/L	5	0.500	2.50	BGH4284	08/29/2023 12:46	JKC



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Sample Results
(Continued)

Client Sample ID: CPC-04-SET-230815 (Continued)
 Lab Sample ID: 23H3257-12
 Sample Alias:

Sample Matrix: Elutriate
 Date Collected: 08/15/2023 11:55
 Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Metals, Dissolved (Continued)

EPA 200.8	Cadmium	A	<0.250U	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:46	JKC
EPA 200.8	Chromium	A	0.511V2, J	ug/L	5	0.400	15.0	BGH4284	08/30/2023 09:01	JKC
EPA 200.8	Copper	A	<1.00B, B2, U	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:46	JKC
EPA 200.8	Lead	A	<0.500U	ug/L	5	0.500	2.50	BGH4284	08/31/2023 14:47	JKC
EPA 200.8	Nickel	A	1.43V2, J	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:46	JKC
EPA 200.8	Silver	A	<0.150U	ug/L	5	0.150	2.50	BGH4284	08/29/2023 12:46	JKC
EPA 200.8	Zinc	A	1.32V2, J	ug/L	5	1.00	10.0	BGH4284	08/29/2023 12:46	JKC

Elutriate General Chemistry

EPA 350.1	Ammonia as N	A	7.35	mg/L	20	0.400	1.00	BGH4002	08/24/2023 12:28	TBB
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 Project Number:
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Reported:
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Sample Results
 (Continued)

Client Sample ID: CPC-04-SET-230815
 Lab Sample ID: 23H3257-12RE1
 Sample Alias:

Sample Matrix: Elutriate
 Date Collected: 08/15/2023 11:55
 Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Metals, Total

EPA 245.1	Mercury (Rerun)	A	<0.150U	ug/L	1	0.150	0.200	BGH4560	08/28/2023 14:32	AKR
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Project Number:
Project Manager: Sara Flaherty

Reported:
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Sample Results
(Continued)

Client Sample ID: CPC-05-SET-230816
Lab Sample ID: 23H3257-13
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 08/16/2023 9:30
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	2,4-Dichlorophenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	08/31/2023 23:52	KRB
SW-8270	2,4-Dimethylphenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	08/31/2023 23:52	KRB
SW-8270	2,4-Dinitrophenol	A	<4.50U	ug/L	1	4.50	4.50	BGH4445	08/31/2023 23:52	KRB
SW-8270	Acenaphthene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	Acenaphthylene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	Anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	Benzo(a)anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	Benzo(a)pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	benzo(b&k)fluoranthene	A	<0.562U	ug/L	1	0.562	1.12	BGH4445	08/31/2023 23:52	KRB
SW-8270	Benzo(g,h,i)perylene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	Chrysene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	Diethyl phthalate	A	0.492V, V2, J	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	Fluoranthene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	Fluorene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	Hexachlorobenzene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	Naphthalene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	Pentachlorophenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	08/31/2023 23:52	KRB
SW-8270	Phenanthrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	Phenol, Total	A	0.868V, V2, J	ug/L	1	0.560	1.12	BGH4445	08/31/2023 23:52	KRB
SW-8270	Pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	08/31/2023 23:52	KRB
SW-8270	Surrogate: 2-Fluorobiphenyl-surr		95.2%	54.6-148					08/31/2023 23:52	
SW-8270	Surrogate: 2-Fluorophenol-surr		110%	55-152					08/31/2023 23:52	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		113%	52.4-136					08/31/2023 23:52	
SW-8270	Surrogate: Nitrobenzene-d5-surr		105%	52-162					08/31/2023 23:52	
SW-8270	Surrogate: Phenol-d5-surr		127%	58.7-152					08/31/2023 23:52	
SW-8270	Surrogate: p-Terphenyl-d14-surr		79.6%	51.9-147					08/31/2023 23:52	

Elutriate Organics by GC

SW-8081	4,4'-DDD	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	4,4'-DDE	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	4,4'-DDT	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	Aldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala

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Project Manager: Sara Flaherty

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Sample Results
(Continued)

Client Sample ID: CPC-05-SET-230816 (Continued)
Lab Sample ID: 23H3257-13
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 08/16/2023 9:30
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	Chlordane (Total)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	delta-BHC	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	Dieldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	Endosulfan I	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	Endosulfan II	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	Endosulfan sulfate	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	Endrin	A	<0.00600B, U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	Endrin aldehyde	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	Endrin ketone	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	gamma-Chlordane	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	Heptachlor	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	Heptachlor epoxide	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 08:27	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<0.300C+, U	ug/L	1	0.300	0.300	BGH3795	08/25/2023 08:27	ala

SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		156% S	60-140					08/25/2023 08:27	
SW-8081	Surrogate: Decachlorobiphenyl-surr		107%	60-140					08/25/2023 08:27	
SW-8082	Aroclor-1016 (PCB-1016)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 05:52	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 05:52	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 05:52	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 05:52	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 05:52	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 05:52	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 05:52	ALA
SW-8082	PCBs, Total	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 05:52	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		84.5%	60-140					09/01/2023 05:52	
SW-8082	Surrogate: Decachlorobiphenyl-surr		58.4% S	60-140					09/01/2023 05:52	

Elutriate Metals, Dissolved

EPA 200.8	Antimony	A	3.33J	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:49	JKC
EPA 200.8	Arsenic	A	11.7	ug/L	5	0.500	2.50	BGH4284	08/29/2023 12:49	JKC



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Sample Results
(Continued)

Client Sample ID: CPC-05-SET-230816 (Continued)
 Lab Sample ID: 23H3257-13
 Sample Alias:

Sample Matrix: Elutriate
 Date Collected: 08/16/2023 9:30
 Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Metals, Dissolved (Continued)

EPA 200.8	Cadmium	A	<0.250U	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:49	JKC
EPA 200.8	Chromium	A	0.430V2, J	ug/L	5	0.400	15.0	BGH4284	08/30/2023 09:04	JKC
EPA 200.8	Copper	A	<1.00B, B2, U	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:49	JKC
EPA 200.8	Lead	A	<0.500U	ug/L	5	0.500	2.50	BGH4284	08/31/2023 14:49	JKC
EPA 200.8	Nickel	A	1.45V2, J	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:49	JKC
EPA 200.8	Silver	A	<0.150U	ug/L	5	0.150	2.50	BGH4284	08/29/2023 12:49	JKC
EPA 200.8	Zinc	A	<1.00B2, U	ug/L	5	1.00	10.0	BGH4284	08/29/2023 12:49	JKC

Elutriate General Chemistry

EPA 350.1	Ammonia as N	A	1.24	mg/L	5	0.100	0.250	BGH4002	08/24/2023 12:01	TBB
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Project: Galveston Bay 2023
 Project Number:
 Project Manager: Sara Flaherty

Reported:
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Sample Results
 (Continued)

Client Sample ID: CPC-05-SET-230816
 Lab Sample ID: 23H3257-13RE1
 Sample Alias:

Sample Matrix: Elutriate
 Date Collected: 08/16/2023 9:30
 Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Metals, Total

EPA 245.1	Mercury (Rerun)	A	<0.150U	ug/L	1	0.150	0.200	BGH4560	08/28/2023 14:42	AKR
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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
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Sample Results
(Continued)

Client Sample ID: CPC-06-SET-230816
Lab Sample ID: 23H3257-14
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 08/16/2023 10:40
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	2,4-Dichlorophenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	09/01/2023 00:26	KRB
SW-8270	2,4-Dimethylphenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	09/01/2023 00:26	KRB
SW-8270	2,4-Dinitrophenol	A	<4.50U	ug/L	1	4.50	4.50	BGH4445	09/01/2023 00:26	KRB
SW-8270	Acenaphthene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	Acenaphthylene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	Anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	Benzo(a)anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	Benzo(a)pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	benzo(b&k)fluoranthene	A	<0.562U	ug/L	1	0.562	1.12	BGH4445	09/01/2023 00:26	KRB
SW-8270	Benzo(g,h,i)perylene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	Chrysene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	Diethyl phthalate	A	0.459V, V2, J	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	Fluoranthene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	Fluorene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	Hexachlorobenzene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	Naphthalene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	Pentachlorophenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	09/01/2023 00:26	KRB
SW-8270	Phenanthrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB
SW-8270	Phenol, Total	A	1.01V, V2, J	ug/L	1	0.560	1.12	BGH4445	09/01/2023 00:26	KRB
SW-8270	Pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 00:26	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		94.8%	54.6-148					09/01/2023 00:26	
SW-8270	Surrogate: 2-Fluorophenol-surr		110%	55-152					09/01/2023 00:26	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		114%	52.4-136					09/01/2023 00:26	
SW-8270	Surrogate: Nitrobenzene-d5-surr		106%	52-162					09/01/2023 00:26	
SW-8270	Surrogate: Phenol-d5-surr		118%	58.7-152					09/01/2023 00:26	
SW-8270	Surrogate: p-Terphenyl-d14-surr		84.9%	51.9-147					09/01/2023 00:26	

Elutriate Organics by GC

SW-8081	4,4'-DDD	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	4,4'-DDE	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	4,4'-DDT	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	Aldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala

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Sample Results
(Continued)

Client Sample ID: CPC-06-SET-230816 (Continued)
Lab Sample ID: 23H3257-14
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 08/16/2023 10:40
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	Chlordane (Total)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	delta-BHC	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	Dieldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	Endosulfan I	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	Endosulfan II	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	Endosulfan sulfate	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	Endrin	A	<0.00600B, U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	Endrin aldehyde	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	Endrin ketone	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	gamma-Chlordane	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	Heptachlor	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	Heptachlor epoxide	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 09:03	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<0.300C+, U	ug/L	1	0.300	0.300	BGH3795	08/25/2023 09:03	ala
SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		148% S	60-140					08/25/2023 09:03	
SW-8081	Surrogate: Decachlorobiphenyl-surr		111%	60-140					08/25/2023 09:03	
SW-8082	Aroclor-1016 (PCB-1016)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 02:48	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 02:48	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 02:48	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 02:48	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 02:48	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 02:48	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 02:48	ALA
SW-8082	PCBs, Total	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 02:48	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		94.3%	60-140					09/01/2023 02:48	
SW-8082	Surrogate: Decachlorobiphenyl-surr		67.4%	60-140					09/01/2023 02:48	

Elutriate Metals, Dissolved

EPA 200.8	Antimony	A	3.51J	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:59	JKC
EPA 200.8	Arsenic	A	11.6	ug/L	5	0.500	2.50	BGH4284	08/29/2023 12:59	JKC



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Project: Galveston Bay 2023
 Project Number:
 Project Manager: Sara Flaherty

Reported:
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Sample Results
(Continued)

Client Sample ID: CPC-06-SET-230816 (Continued)
 Lab Sample ID: 23H3257-14
 Sample Alias:

Sample Matrix: Elutriate
 Date Collected: 08/16/2023 10:40
 Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Metals, Dissolved (Continued)

EPA 200.8	Cadmium	A	<0.250U	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:59	JKC
EPA 200.8	Chromium	A	0.458V2, J	ug/L	5	0.400	15.0	BGH4284	08/30/2023 09:15	JKC
EPA 200.8	Copper	A	1.26V, V2, J	ug/L	5	1.00	5.00	BGH4284	08/29/2023 12:59	JKC
EPA 200.8	Lead	A	<0.500U	ug/L	5	0.500	2.50	BGH4284	08/31/2023 15:00	JKC
EPA 200.8	Nickel	A	1.42V2, J	ug/L	5	0.250	5.00	BGH4284	08/29/2023 12:59	JKC
EPA 200.8	Silver	A	<0.150U	ug/L	5	0.150	2.50	BGH4284	08/29/2023 12:59	JKC
EPA 200.8	Zinc	A	<1.00B2, U	ug/L	5	1.00	10.0	BGH4284	08/30/2023 09:15	JKC

Elutriate General Chemistry

EPA 350.1	Ammonia as N	A	0.932	mg/L	5	0.100	0.250	BGH4002	08/24/2023 12:01	TBB
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 Seattle, WA 98101

Project: Galveston Bay 2023
 Project Number:
 Project Manager: Sara Flaherty

Reported:
 10/27/2023 13:21

Sample Results
 (Continued)

Client Sample ID: CPC-06-SET-230816
 Lab Sample ID: 23H3257-14RE1
 Sample Alias:

Sample Matrix: Elutriate
 Date Collected: 08/16/2023 10:40
 Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Metals, Total

EPA 245.1	Mercury (Rerun)	A	<0.150U	ug/L	1	0.150	0.200	BGH4560	08/28/2023 14:45	AKR
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Anchor QEA, LLC
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Seattle, WA 98101

Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-07-SET-230816
Lab Sample ID: 23H3257-15
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 08/16/2023 11:40
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	2,4-Dichlorophenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	09/01/2023 01:01	KRB
SW-8270	2,4-Dimethylphenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	09/01/2023 01:01	KRB
SW-8270	2,4-Dinitrophenol	A	<4.50U	ug/L	1	4.50	4.50	BGH4445	09/01/2023 01:01	KRB
SW-8270	Acenaphthene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	Acenaphthylene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	Anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	Benzo(a)anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	Benzo(a)pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	benzo(b&k)fluoranthene	A	<0.562U	ug/L	1	0.562	1.12	BGH4445	09/01/2023 01:01	KRB
SW-8270	Benzo(g,h,i)perylene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	Chrysene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	Diethyl phthalate	A	0.398V, V2, J	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	Fluoranthene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	Fluorene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	Hexachlorobenzene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	Naphthalene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	Pentachlorophenol	A	<0.560U	ug/L	1	0.560	1.12	BGH4445	09/01/2023 01:01	KRB
SW-8270	Phenanthrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB
SW-8270	Phenol, Total	A	1.43V, V2	ug/L	1	0.560	1.12	BGH4445	09/01/2023 01:01	KRB
SW-8270	Pyrene	A	<0.281U	ug/L	1	0.281	0.562	BGH4445	09/01/2023 01:01	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		94.2%	54.6-148					09/01/2023 01:01	
SW-8270	Surrogate: 2-Fluorophenol-surr		107%	55-152					09/01/2023 01:01	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		106%	52.4-136					09/01/2023 01:01	
SW-8270	Surrogate: Nitrobenzene-d5-surr		98.9%	52-162					09/01/2023 01:01	
SW-8270	Surrogate: Phenol-d5-surr		119%	58.7-152					09/01/2023 01:01	
SW-8270	Surrogate: p-Terphenyl-d14-surr		80.1%	51.9-147					09/01/2023 01:01	

Elutriate Organics by GC

SW-8081	4,4'-DDD	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	4,4'-DDE	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	4,4'-DDT	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	Aldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala

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Sample Results
(Continued)

Client Sample ID: CPC-07-SET-230816 (Continued) Sample Matrix: Elutriate
Lab Sample ID: 23H3257-15 Date Collected: 08/16/2023 11:40
Sample Alias: Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	Chlordane (Total)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	delta-BHC	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	Dieldrin	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	Endosulfan I	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	Endosulfan II	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	Endosulfan sulfate	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	Endrin	A	<0.00600B, U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	Endrin aldehyde	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	Endrin ketone	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	gamma-Chlordane	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	Heptachlor	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	Heptachlor epoxide	A	<0.00600U	ug/L	1	0.00600	0.00600	BGH3795	08/25/2023 04:18	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<0.300C+, U	ug/L	1	0.300	0.300	BGH3795	08/25/2023 04:18	ala
SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		149% S	60-140					08/25/2023 04:18	
SW-8081	Surrogate: Decachlorobiphenyl-surr		112%	60-140					08/25/2023 04:18	
SW-8082	Aroclor-1016 (PCB-1016)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 06:29	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 06:29	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 06:29	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 06:29	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 06:29	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 06:29	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 06:29	ALA
SW-8082	PCBs, Total	A	<0.00600U	ug/L	1	0.00600	0.120	BGH4424	09/01/2023 06:29	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		106%	60-140					09/01/2023 06:29	
SW-8082	Surrogate: Decachlorobiphenyl-surr		61.7%	60-140					09/01/2023 06:29	

Elutriate Metals, Dissolved

EPA 200.8	Antimony	A	2.81J	ug/L	5	1.00	5.00	BGH4284	08/29/2023 13:02	JKC
EPA 200.8	Arsenic	A	10.7	ug/L	5	0.500	2.50	BGH4284	08/29/2023 13:02	JKC



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 Project Number:
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Sample Results
(Continued)

Client Sample ID: CPC-07-SET-230816 (Continued)
 Lab Sample ID: 23H3257-15
 Sample Alias:

Sample Matrix: Elutriate
 Date Collected: 08/16/2023 11:40
 Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Metals, Dissolved (Continued)

EPA 200.8	Cadmium	A	<0.250U	ug/L	5	0.250	5.00	BGH4284	08/29/2023 13:02	JKC
EPA 200.8	Chromium	A	0.473V2, J	ug/L	5	0.400	15.0	BGH4284	08/30/2023 09:17	JKC
EPA 200.8	Copper	A	1.25V, V2, J	ug/L	5	1.00	5.00	BGH4284	08/29/2023 13:02	JKC
EPA 200.8	Lead	A	<0.500U	ug/L	5	0.500	2.50	BGH4284	08/31/2023 15:02	JKC
EPA 200.8	Nickel	A	1.46V2, J	ug/L	5	0.250	5.00	BGH4284	08/29/2023 13:02	JKC
EPA 200.8	Silver	A	<0.150U	ug/L	5	0.150	2.50	BGH4284	08/29/2023 13:02	JKC
EPA 200.8	Zinc	A	<1.00B2, U	ug/L	5	1.00	10.0	BGH4284	08/30/2023 09:17	JKC

Elutriate General Chemistry

EPA 350.1	Ammonia as N	A	0.921	mg/L	1	0.0200	0.0500	BGH4002	08/24/2023 10:06	TBB
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Project: Galveston Bay 2023
 Project Number:
 Project Manager: Sara Flaherty

Reported:
 10/27/2023 13:21

Sample Results
 (Continued)

Client Sample ID: CPC-07-SET-230816
 Lab Sample ID: 23H3257-15RE1
 Sample Alias:

Sample Matrix: Elutriate
 Date Collected: 08/16/2023 11:40
 Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Metals, Total

EPA 245.1	Mercury (Rerun)	A	<0.150U	ug/L	1	0.150	0.200	BGH4560	08/28/2023 14:48	AKR
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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-01-SC-230815
Lab Sample ID: 23H3257-16
Sample Alias:

Sample Matrix: Sediment
Date Collected: 08/15/2023 8:58
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst	
Semivolatile Organic Compounds by GCMS											
SW-8270	1,2,4-Trichlorobenzene	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	
SW-8270	2,4-Dichlorophenol	A	<4.20CQa, R, U	ug/kg dry	1	4.20	8.39	BGH4163	09/01/2023 16:07	KRB	
SW-8270	2,4-Dimethylphenol	A	<4.20CQa, R, U	ug/kg dry	1	4.20	8.39	BGH4163	09/01/2023 16:07	KRB	
SW-8270	2,4-Dinitrophenol	A	<4.20CQa, R, U	ug/kg dry	1	4.20	8.39	BGH4163	09/01/2023 16:07	KRB	
SW-8270	Acenaphthene	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	
SW-8270	Acenaphthylene	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	
SW-8270	Anthracene	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	
SW-8270	Benzo(a)anthracene	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	
SW-8270	Benzo(a)pyrene	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	
SW-8270	benzo(b&k)fluoranthene	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	
SW-8270	Benzo(g,h,i)perylene	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	
SW-8270	Chrysene	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	
SW-8270	Dibenzo(a,h)anthracene	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	
SW-8270	Diethyl phthalate	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	
SW-8270	Fluoranthene	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	
SW-8270	Fluorene	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	
SW-8270	Hexachlorobenzene	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	
SW-8270	Indeno(1,2,3-cd) pyrene	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	
SW-8270	Naphthalene	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB	

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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
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Sample Results
(Continued)

Client Sample ID: CPC-01-SC-230815 (Continued)
Lab Sample ID: 23H3257-16
Sample Alias:

Sample Matrix: Sediment
Date Collected: 08/15/2023 8:58
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS (Continued)

SW-8270	Pentachlorophenol	A	<4.20CQa, R, U	ug/kg dry	1	4.20	8.39	BGH4163	09/01/2023 16:07	KRB
SW-8270	Phenanthrene	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB
SW-8270	Phenol, Total	A	5.67CQa, R, J	ug/kg dry	1	4.20	8.39	BGH4163	09/01/2023 16:07	KRB
SW-8270	Pyrene	A	<2.10CQa, R, U	ug/kg dry	1	2.10	4.20	BGH4163	09/01/2023 16:07	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		14.4% R, S	60-140					09/01/2023 16:07	
SW-8270	Surrogate: 2-Fluorophenol-surr		33.8% R, S	60-140					09/01/2023 16:07	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		22.7% R, S	60-140					09/01/2023 16:07	
SW-8270	Surrogate: Nitrobenzene-d5-surr		20.6% R, S	60-140					09/01/2023 16:07	
SW-8270	Surrogate: Phenol-d5-surr		38.7% R, S	60-140					09/01/2023 16:07	
SW-8270	Surrogate: p-Terphenyl-d14-surr		9.86% R, S	60-140					09/01/2023 16:07	

Organics by GC

SW-8081	4,4'-DDD	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	4,4'-DDE	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	4,4'-DDT	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	Aldrin	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	Chlordane (Total)	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	delta-BHC	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	Dieldrin	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	Endosulfan I	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	Endosulfan II	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	Endosulfan sulfate	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	Endrin	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	Endrin aldehyde	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	Endrin ketone	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	gamma-Chlordane	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	Heptachlor	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala

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Project Number:
Project Manager: Sara Flaherty

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Sample Results
(Continued)

Client Sample ID: CPC-01-SC-230815 (Continued)
Lab Sample ID: 23H3257-16
Sample Alias:

Sample Matrix: Sediment
Date Collected: 08/15/2023 8:58
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8081	Heptachlor epoxide	A	<0.504U	ug/kg dry	10	0.504	1.68	BGH3565	08/29/2023 09:55	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<25.2C+, U	ug/kg dry	10	25.2	25.2	BGH3565	08/29/2023 09:55	ala
<hr/>										
SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		93.2%	60-140					08/29/2023 09:55	
SW-8081	Surrogate: Decachlorobiphenyl-surr		116%	60-140					08/29/2023 09:55	
SW-8082	Aroclor-1016 (PCB-1016)	A	<1.68C+, U	ug/kg dry	1	1.68	3.36	BGH4443	09/01/2023 17:33	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<1.68U	ug/kg dry	1	1.68	3.36	BGH4443	09/01/2023 17:33	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<1.68U	ug/kg dry	1	1.68	3.36	BGH4443	09/01/2023 17:33	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<1.68U	ug/kg dry	1	1.68	3.36	BGH4443	09/01/2023 17:33	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<1.68U	ug/kg dry	1	1.68	3.36	BGH4443	09/01/2023 17:33	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<1.68U	ug/kg dry	1	1.68	3.36	BGH4443	09/01/2023 17:33	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<1.68C+, U	ug/kg dry	1	1.68	3.36	BGH4443	09/01/2023 17:33	ALA
SW-8082	Aroclor-1262 (PCB-1262)	N	<1.68U	ug/kg dry	1	1.68	3.36	BGH4443	09/01/2023 17:33	ALA
SW-8082	Aroclor-1268 (PCB-1268)	N	<1.68U	ug/kg dry	1	1.68	3.36	BGH4443	09/01/2023 17:33	ALA
SW-8082	PCBs, Total	A	<1.68C+, U	ug/kg dry	1	1.68	3.36	BGH4443	09/01/2023 17:33	ALA
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SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		112%	60-140					09/01/2023 17:33	
SW-8082	Surrogate: Decachlorobiphenyl-surr		148% S	60-140					09/01/2023 17:33	

Metals, Total

EPA 200.8	Antimony	A	<0.0347U	mg/kg dry	1	0.0347	0.0695	BGH5034	09/05/2023 09:59	JKC
EPA 200.8	Arsenic	A	3.58	mg/kg dry	1	0.00347	0.0347	BGH5034	09/05/2023 09:59	JKC
EPA 200.8	Cadmium	A	0.112	mg/kg dry	1	0.00347	0.0695	BGH5034	09/05/2023 09:59	JKC
EPA 200.8	Chromium	A	9.15	mg/kg dry	1	0.0104	0.208	BGH5034	09/05/2023 09:59	JKC
EPA 200.8	Copper	A	7.35V	mg/kg dry	1	0.0139	0.0695	BGH5034	09/05/2023 11:32	JKC
SW-7471B	Mercury	A	0.0136J	mg/kg dry	1	0.00988	0.0198	BGH3815	08/23/2023 16:21	AKR
EPA 200.8	Lead	A	14.7	mg/kg dry	5	0.0173	0.173	BGH5034	09/05/2023 10:01	JKC
EPA 200.8	Nickel	A	9.47	mg/kg dry	1	0.0695	0.0695	BGH5034	09/05/2023 09:59	JKC
EPA 200.8	Silver	A	0.0495	mg/kg dry	1	0.00174	0.0347	BGH5034	09/05/2023 09:59	JKC
EPA 200.8	Zinc	A	34.8	mg/kg dry	5	0.347	0.693	BGH5034	09/05/2023 10:01	JKC

General Chemistry

EPA 350.2	Ammonia as N	A	28.6	mg/kg dry	1	8.37	16.7	BGH3543	08/22/2023 13:20	GIW
SM 2540 G	% Solids	A	59.6V	%	1	0.100	0.100	BGH3159	08/18/2023 11:01	BP

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Project Number:
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Sample Results
(Continued)

Client Sample ID: CPC-01-SC-230815
Lab Sample ID: 23H3257-16RE1
Sample Alias:

Sample Matrix: Sediment
Date Collected: 08/15/2023 8:58
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene) (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene) (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene) (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	2,4-Dichlorophenol (Rerun)	A	<4.09HR, U	ug/kg dry	1	4.09	8.19	BGI0719	09/07/2023 00:42	KRB
SW-8270	2,4-Dimethylphenol (Rerun)	A	<4.09HR, U	ug/kg dry	1	4.09	8.19	BGI0719	09/07/2023 00:42	KRB
SW-8270	2,4-Dinitrophenol (Rerun)	A	<4.09HR, U	ug/kg dry	1	4.09	8.19	BGI0719	09/07/2023 00:42	KRB
SW-8270	Acenaphthene (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	Acenaphthylene (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	Anthracene (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	Benzo(a)anthracene (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	Benzo(a)pyrene (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	benzo(b&k)fluoranthene (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	Benzo(g,h,i)perylene (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	Chrysene (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	Dibenzo(a,h)anthracene (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	Diethyl phthalate (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	Fluoranthene (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	Fluorene (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	Hexachlorobenzene (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	Indeno(1,2,3-cd) pyrene (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	Naphthalene (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	Pentachlorophenol (Rerun)	A	<4.09HR, U	ug/kg dry	1	4.09	8.19	BGI0719	09/07/2023 00:42	KRB
SW-8270	Phenanthrene (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	Phenol, Total (Rerun)	A	<4.09HR, U	ug/kg dry	1	4.09	8.19	BGI0719	09/07/2023 00:42	KRB
SW-8270	Pyrene (Rerun)	A	<2.05HR, U	ug/kg dry	1	2.05	4.09	BGI0719	09/07/2023 00:42	KRB
SW-8270	Surrogate: 2-Fluorobiphenyl-surr (Rerun)		66.1% HR	60-140					09/07/2023 00:42	
SW-8270	Surrogate: 2-Fluorophenol-surr (Rerun)		76.3% HR	60-140					09/07/2023 00:42	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr (Rerun)		72.8% HR	60-140					09/07/2023 00:42	
SW-8270	Surrogate: Nitrobenzene-d5-surr (Rerun)		62.3% HR	60-140					09/07/2023 00:42	
SW-8270	Surrogate: Phenol-d5-surr (Rerun)		88.9% HR	60-140					09/07/2023 00:42	
SW-8270	Surrogate: p-Terphenyl-d14-surr (Rerun)		51.0% HR, S	60-140					09/07/2023 00:42	

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Project Number:
Project Manager: Sara Flaherty

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Sample Results
(Continued)

Client Sample ID: CPC-02-SC-230815
Lab Sample ID: 23H3257-17
Sample Alias:

Sample Matrix: Sediment
Date Collected: 08/15/2023 9:59
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	2,4-Dichlorophenol	A	<3.27U	ug/kg dry	1	3.27	6.55	BGH4163	09/01/2023 15:33	KRB
SW-8270	2,4-Dimethylphenol	A	<3.27U	ug/kg dry	1	3.27	6.55	BGH4163	09/01/2023 15:33	KRB
SW-8270	2,4-Dinitrophenol	A	<3.27U	ug/kg dry	1	3.27	6.55	BGH4163	09/01/2023 15:33	KRB
SW-8270	Acenaphthene	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	Acenaphthylene	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	Anthracene	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	Benzo(a)anthracene	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	Benzo(a)pyrene	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	benzo(b&k)fluoranthene	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	Benzo(g,h,i)perylene	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	Chrysene	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	Diethyl phthalate	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	Fluoranthene	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	Fluorene	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	Hexachlorobenzene	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	Naphthalene	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	Pentachlorophenol	A	<3.27U	ug/kg dry	1	3.27	6.55	BGH4163	09/01/2023 15:33	KRB
SW-8270	Phenanthrene	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB
SW-8270	Phenol, Total	A	5.58J	ug/kg dry	1	3.27	6.55	BGH4163	09/01/2023 15:33	KRB
SW-8270	Pyrene	A	<1.64U	ug/kg dry	1	1.64	3.27	BGH4163	09/01/2023 15:33	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		73.2%	60-140					09/01/2023 15:33	
SW-8270	Surrogate: 2-Fluorophenol-surr		82.6%	60-140					09/01/2023 15:33	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		79.6%	60-140					09/01/2023 15:33	
SW-8270	Surrogate: Nitrobenzene-d5-surr		79.9%	60-140					09/01/2023 15:33	
SW-8270	Surrogate: Phenol-d5-surr		93.7%	60-140					09/01/2023 15:33	
SW-8270	Surrogate: p-Terphenyl-d14-surr		50.1% S	60-140					09/01/2023 15:33	

Organics by GC

SW-8081	4,4'-DDD	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	4,4'-DDE	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	4,4'-DDT	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	Aldrin	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala

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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
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Sample Results
(Continued)

Client Sample ID: CPC-02-SC-230815 (Continued)
Lab Sample ID: 23H3257-17
Sample Alias:

Sample Matrix: Sediment
Date Collected: 08/15/2023 9:59
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	Chlordane (Total)	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	delta-BHC	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	Dieldrin	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	Endosulfan I	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	Endosulfan II	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	Endosulfan sulfate	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	Endrin	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	Endrin aldehyde	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	Endrin ketone	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	gamma-Chlordane	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	Heptachlor	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	Heptachlor epoxide	A	<0.393U	ug/kg dry	10	0.393	1.31	BGH3565	08/29/2023 10:32	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<19.6C+, U	ug/kg dry	10	19.6	19.6	BGH3565	08/29/2023 10:32	ala
SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		91.2%	60-140					08/29/2023 10:32	
SW-8081	Surrogate: Decachlorobiphenyl-surr		115%	60-140					08/29/2023 10:32	
SW-8082	Aroclor-1016 (PCB-1016)	A	<1.31C+, U	ug/kg dry	1	1.31	2.62	BGH4443	09/01/2023 18:10	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<1.31U	ug/kg dry	1	1.31	2.62	BGH4443	09/01/2023 18:10	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<1.31U	ug/kg dry	1	1.31	2.62	BGH4443	09/01/2023 18:10	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<1.31U	ug/kg dry	1	1.31	2.62	BGH4443	09/01/2023 18:10	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<1.31U	ug/kg dry	1	1.31	2.62	BGH4443	09/01/2023 18:10	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<1.31U	ug/kg dry	1	1.31	2.62	BGH4443	09/01/2023 18:10	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<1.31C+, U	ug/kg dry	1	1.31	2.62	BGH4443	09/01/2023 18:10	ALA
SW-8082	Aroclor-1262 (PCB-1262)	N	<1.31U	ug/kg dry	1	1.31	2.62	BGH4443	09/01/2023 18:10	ALA
SW-8082	Aroclor-1268 (PCB-1268)	N	<1.31U	ug/kg dry	1	1.31	2.62	BGH4443	09/01/2023 18:10	ALA
SW-8082	PCBs, Total	A	<1.31C+, U	ug/kg dry	1	1.31	2.62	BGH4443	09/01/2023 18:10	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		112%	60-140					09/01/2023 18:10	
SW-8082	Surrogate: Decachlorobiphenyl-surr		122%	60-140					09/01/2023 18:10	

Metals, Total



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 Project Number:
 Project Manager: Sara Flaherty

Reported:
 10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-02-SC-230815 (Continued)
 Lab Sample ID: 23H3257-17
 Sample Alias:

Sample Matrix: Sediment
 Date Collected: 08/15/2023 9:59
 Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Metals, Total (Continued)

EPA 200.8	Antimony	A	<0.0273U	mg/kg dry	1	0.0273	0.0547	BGH5034	09/05/2023 10:14	JKC
EPA 200.8	Arsenic	A	1.81	mg/kg dry	1	0.00273	0.0273	BGH5034	09/05/2023 10:14	JKC
EPA 200.8	Cadmium	A	0.0438J	mg/kg dry	1	0.00273	0.0547	BGH5034	09/05/2023 10:14	JKC
EPA 200.8	Chromium	A	3.42	mg/kg dry	1	0.00819	0.164	BGH5034	09/05/2023 10:14	JKC
EPA 200.8	Copper	A	2.63V	mg/kg dry	1	0.0109	0.0547	BGH5034	09/05/2023 11:40	JKC
SW-7471B	Mercury	A	0.0261	mg/kg dry	1	0.00984	0.0197	BGH3815	08/23/2023 16:24	AKR
EPA 200.8	Lead	A	4.89	mg/kg dry	1	0.00273	0.0273	BGH5034	09/05/2023 10:14	JKC
EPA 200.8	Nickel	A	3.73	mg/kg dry	1	0.0547	0.0547	BGH5034	09/05/2023 10:14	JKC
EPA 200.8	Silver	A	0.0198J	mg/kg dry	1	0.00137	0.0273	BGH5034	09/05/2023 10:14	JKC
EPA 200.8	Zinc	A	11.3	mg/kg dry	1	0.0547	0.109	BGH5034	09/05/2023 10:14	JKC

General Chemistry

EPA 350.2	Ammonia as N	A	12.4J	mg/kg dry	1	6.54	13.1	BGH3543	08/22/2023 13:20	GIW
SM 2540 G	% Solids	A	76.3V	%	1	0.100	0.100	BGH3159	08/18/2023 11:01	BP

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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-03-SC-230815
Lab Sample ID: 23H3257-18
Sample Alias:

Sample Matrix: Sediment
Date Collected: 08/15/2023 11:09
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	2,4-Dichlorophenol	A	<3.47U	ug/kg dry	1	3.47	6.93	BGH4163	09/01/2023 16:42	KRB
SW-8270	2,4-Dimethylphenol	A	<3.47U	ug/kg dry	1	3.47	6.93	BGH4163	09/01/2023 16:42	KRB
SW-8270	2,4-Dinitrophenol	A	<3.47U	ug/kg dry	1	3.47	6.93	BGH4163	09/01/2023 16:42	KRB
SW-8270	Acenaphthene	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	Acenaphthylene	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	Anthracene	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	Benzo(a)anthracene	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	Benzo(a)pyrene	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	benzo(b&k)fluoranthene	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	Benzo(g,h,i)perylene	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	Chrysene	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	Diethyl phthalate	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	Fluoranthene	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	Fluorene	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	Hexachlorobenzene	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	Naphthalene	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	Pentachlorophenol	A	<3.47U	ug/kg dry	1	3.47	6.93	BGH4163	09/01/2023 16:42	KRB
SW-8270	Phenanthrene	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB
SW-8270	Phenol, Total	A	<3.47U	ug/kg dry	1	3.47	6.93	BGH4163	09/01/2023 16:42	KRB
SW-8270	Pyrene	A	<1.73U	ug/kg dry	1	1.73	3.47	BGH4163	09/01/2023 16:42	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		59.6% S	60-140					09/01/2023 16:42	
SW-8270	Surrogate: 2-Fluorophenol-surr		77.3%	60-140					09/01/2023 16:42	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		71.0%	60-140					09/01/2023 16:42	
SW-8270	Surrogate: Nitrobenzene-d5-surr		73.6%	60-140					09/01/2023 16:42	
SW-8270	Surrogate: Phenol-d5-surr		89.3%	60-140					09/01/2023 16:42	
SW-8270	Surrogate: p-Terphenyl-d14-surr		38.3% S	60-140					09/01/2023 16:42	

Organics by GC

SW-8081	4,4'-DDD	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	4,4'-DDE	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	4,4'-DDT	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	Aldrin	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala

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Project Number:
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Sample Results
(Continued)

Client Sample ID: CPC-03-SC-230815 (Continued)
Lab Sample ID: 23H3257-18
Sample Alias:

Sample Matrix: Sediment
Date Collected: 08/15/2023 11:09
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	Chlordane (Total)	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	delta-BHC	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	Dieldrin	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	Endosulfan I	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	Endosulfan II	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	Endosulfan sulfate	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	Endrin	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	Endrin aldehyde	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	Endrin ketone	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	gamma-Chlordane	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	Heptachlor	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	Heptachlor epoxide	A	<0.416U	ug/kg dry	10	0.416	1.39	BGH3565	08/29/2023 11:08	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<20.8C+, U	ug/kg dry	10	20.8	20.8	BGH3565	08/29/2023 11:08	ala
SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		89.0%	60-140					08/29/2023 11:08	
SW-8081	Surrogate: Decachlorobiphenyl-surr		114%	60-140					08/29/2023 11:08	
SW-8082	Aroclor-1016 (PCB-1016)	A	<1.39U	ug/kg dry	1	1.39	2.77	BGH4443	09/01/2023 16:18	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<1.39U	ug/kg dry	1	1.39	2.77	BGH4443	09/01/2023 16:18	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<1.39U	ug/kg dry	1	1.39	2.77	BGH4443	09/01/2023 16:18	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<1.39U	ug/kg dry	1	1.39	2.77	BGH4443	09/01/2023 16:18	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<1.39U	ug/kg dry	1	1.39	2.77	BGH4443	09/01/2023 16:18	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<1.39U	ug/kg dry	1	1.39	2.77	BGH4443	09/01/2023 16:18	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<1.39U	ug/kg dry	1	1.39	2.77	BGH4443	09/01/2023 16:18	ALA
SW-8082	Aroclor-1262 (PCB-1262)	N	<1.39U	ug/kg dry	1	1.39	2.77	BGH4443	09/01/2023 16:18	ALA
SW-8082	Aroclor-1268 (PCB-1268)	N	<1.39U	ug/kg dry	1	1.39	2.77	BGH4443	09/01/2023 16:18	ALA
SW-8082	PCBs, Total	A	<1.39U	ug/kg dry	1	1.39	2.77	BGH4443	09/01/2023 16:18	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		114%	60-140					09/01/2023 16:18	
SW-8082	Surrogate: Decachlorobiphenyl-surr		145% S	60-140					09/01/2023 16:18	

Metals, Total



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Sample Results
(Continued)

Client Sample ID: CPC-03-SC-230815 (Continued) Sample Matrix: Sediment
 Lab Sample ID: 23H3257-18 Date Collected: 08/15/2023 11:09
 Sample Alias: Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Metals, Total (Continued)

EPA 200.8	Antimony	A	<0.0284U	mg/kg dry	1	0.0284	0.0569	BGH5034	09/05/2023 11:42	JKC
EPA 200.8	Arsenic	A	1.90	mg/kg dry	1	0.00284	0.0284	BGH5034	09/05/2023 11:42	JKC
EPA 200.8	Cadmium	A	0.0471J	mg/kg dry	1	0.00284	0.0569	BGH5034	09/05/2023 11:42	JKC
EPA 200.8	Chromium	A	3.84	mg/kg dry	1	0.00852	0.170	BGH5034	09/05/2023 11:42	JKC
EPA 200.8	Copper	A	3.18V	mg/kg dry	1	0.0114	0.0569	BGH5034	09/05/2023 11:42	JKC
SW-7471B	Mercury	A	0.0294	mg/kg dry	1	0.00993	0.0199	BGH3815	08/23/2023 16:27	AKR
EPA 200.8	Lead	A	6.09	mg/kg dry	5	0.0142	0.142	BGH5034	09/05/2023 11:45	JKC
EPA 200.8	Nickel	A	4.29	mg/kg dry	1	0.0569	0.0569	BGH5034	09/05/2023 11:42	JKC
EPA 200.8	Silver	A	0.0234J	mg/kg dry	1	0.00142	0.0284	BGH5034	09/05/2023 11:42	JKC
EPA 200.8	Zinc	A	14.6	mg/kg dry	1	0.0569	0.114	BGH5034	09/05/2023 11:42	JKC

General Chemistry

EPA 350.2	Ammonia as N	A	11.6J	mg/kg dry	1	6.91	13.8	BGH3543	08/22/2023 13:20	GIW
SM 2540 G	% Solids	A	72.1V	%	1	0.100	0.100	BGH3159	08/18/2023 11:01	BP

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Project Number:
Project Manager: Sara Flaherty

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10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-04-SC-230815
Lab Sample ID: 23H3257-19
Sample Alias:

Sample Matrix: Sediment
Date Collected: 08/15/2023 11:55
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	2,4-Dichlorophenol	A	<5.34U	ug/kg dry	1	5.34	10.7	BGH4163	09/01/2023 17:17	KRB
SW-8270	2,4-Dimethylphenol	A	<5.34U	ug/kg dry	1	5.34	10.7	BGH4163	09/01/2023 17:17	KRB
SW-8270	2,4-Dinitrophenol	A	<5.34U	ug/kg dry	1	5.34	10.7	BGH4163	09/01/2023 17:17	KRB
SW-8270	Acenaphthene	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	Acenaphthylene	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	Anthracene	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	Benzo(a)anthracene	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	Benzo(a)pyrene	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	benzo(b&k)fluoranthene	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	Benzo(g,h,i)perylene	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	Chrysene	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	Diethyl phthalate	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	Fluoranthene	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	Fluorene	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	Hexachlorobenzene	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	Naphthalene	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	Pentachlorophenol	A	<5.34U	ug/kg dry	1	5.34	10.7	BGH4163	09/01/2023 17:17	KRB
SW-8270	Phenanthrene	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB
SW-8270	Phenol, Total	A	<5.34U	ug/kg dry	1	5.34	10.7	BGH4163	09/01/2023 17:17	KRB
SW-8270	Pyrene	A	<2.67U	ug/kg dry	1	2.67	5.34	BGH4163	09/01/2023 17:17	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		51.2% S	60-140					09/01/2023 17:17	
SW-8270	Surrogate: 2-Fluorophenol-surr		76.8%	60-140					09/01/2023 17:17	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		66.0%	60-140					09/01/2023 17:17	
SW-8270	Surrogate: Nitrobenzene-d5-surr		69.8%	60-140					09/01/2023 17:17	
SW-8270	Surrogate: Phenol-d5-surr		89.6%	60-140					09/01/2023 17:17	
SW-8270	Surrogate: p-Terphenyl-d14-surr		40.7% S	60-140					09/01/2023 17:17	

Organics by GC

SW-8081	4,4'-DDD	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	4,4'-DDE	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	4,4'-DDT	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	Aldrin	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala

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Project Manager: Sara Flaherty

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Sample Results
(Continued)

Client Sample ID: CPC-04-SC-230815 (Continued)
Lab Sample ID: 23H3257-19
Sample Alias:

Sample Matrix: Sediment
Date Collected: 08/15/2023 11:55
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	Chlordane (Total)	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	delta-BHC	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	Dieldrin	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	Endosulfan I	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	Endosulfan II	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	Endosulfan sulfate	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	Endrin	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	Endrin aldehyde	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	Endrin ketone	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	gamma-Chlordane	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	Heptachlor	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	Heptachlor epoxide	A	<0.641U	ug/kg dry	10	0.641	2.14	BGH3565	08/29/2023 11:44	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<32.0C+, U	ug/kg dry	10	32.0	32.0	BGH3565	08/29/2023 11:44	ala
SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		84.0%	60-140					08/29/2023 11:44	
SW-8081	Surrogate: Decachlorobiphenyl-surr		119%	60-140					08/29/2023 11:44	
SW-8082	Aroclor-1016 (PCB-1016)	A	<2.14C+, U	ug/kg dry	1	2.14	4.27	BGH4443	09/01/2023 18:47	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<2.14U	ug/kg dry	1	2.14	4.27	BGH4443	09/01/2023 18:47	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<2.14U	ug/kg dry	1	2.14	4.27	BGH4443	09/01/2023 18:47	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<2.14U	ug/kg dry	1	2.14	4.27	BGH4443	09/01/2023 18:47	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<2.14U	ug/kg dry	1	2.14	4.27	BGH4443	09/01/2023 18:47	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<2.14U	ug/kg dry	1	2.14	4.27	BGH4443	09/01/2023 18:47	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<2.14C+, U	ug/kg dry	1	2.14	4.27	BGH4443	09/01/2023 18:47	ALA
SW-8082	Aroclor-1262 (PCB-1262)	N	<2.14U	ug/kg dry	1	2.14	4.27	BGH4443	09/01/2023 18:47	ALA
SW-8082	Aroclor-1268 (PCB-1268)	N	<2.14U	ug/kg dry	1	2.14	4.27	BGH4443	09/01/2023 18:47	ALA
SW-8082	PCBs, Total	A	<2.14C+, U	ug/kg dry	1	2.14	4.27	BGH4443	09/01/2023 18:47	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		103%	60-140					09/01/2023 18:47	
SW-8082	Surrogate: Decachlorobiphenyl-surr		125%	60-140					09/01/2023 18:47	

Metals, Total



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Sample Results
 (Continued)

Client Sample ID: CPC-04-SC-230815 (Continued)
 Lab Sample ID: 23H3257-19
 Sample Alias:

Sample Matrix: Sediment
 Date Collected: 08/15/2023 11:55
 Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Metals, Total (Continued)

EPA 200.8	Antimony	A	<0.0445U	mg/kg dry	1	0.0445	0.0892	BGH5034	09/05/2023 11:48	JKC
EPA 200.8	Arsenic	A	5.56	mg/kg dry	1	0.00445	0.0445	BGH5034	09/05/2023 11:48	JKC
EPA 200.8	Cadmium	A	0.187	mg/kg dry	1	0.00445	0.0892	BGH5034	09/05/2023 11:48	JKC
EPA 200.8	Chromium	A	16.2	mg/kg dry	1	0.0134	0.267	BGH5034	09/05/2023 11:48	JKC
EPA 200.8	Copper	A	12.9V	mg/kg dry	1	0.0178	0.0892	BGH5034	09/05/2023 11:48	JKC
SW-7471B	Mercury	A	0.0543	mg/kg dry	1	0.00997	0.0199	BGH3815	08/23/2023 15:57	AKR
EPA 200.8	Lead	A	21.4	mg/kg dry	5	0.0222	0.222	BGH5034	09/05/2023 11:58	JKC
EPA 200.8	Nickel	A	17.4	mg/kg dry	1	0.0892	0.0892	BGH5034	09/05/2023 11:48	JKC
EPA 200.8	Silver	A	0.0734	mg/kg dry	1	0.00223	0.0445	BGH5034	09/05/2023 11:48	JKC
EPA 200.8	Zinc	A	51.3	mg/kg dry	5	0.446	0.889	BGH5034	09/05/2023 11:58	JKC

General Chemistry

EPA 350.2	Ammonia as N	A	117	mg/kg dry	1	10.7	21.3	BGH3543	08/22/2023 13:20	GIW
SM 2540 G	% Solids	A	46.8V	%	1	0.100	0.100	BGH3159	08/18/2023 11:01	BP

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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

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Sample Results
(Continued)

Client Sample ID: CPC-05-SC-230816
Lab Sample ID: 23H3257-20
Sample Alias:

Sample Matrix: Sediment
Date Collected: 08/16/2023 9:30
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	2,4-Dichlorophenol	A	<4.35U	ug/kg dry	1	4.35	8.71	BGH4163	09/06/2023 03:14	KRB
SW-8270	2,4-Dimethylphenol	A	<4.35U	ug/kg dry	1	4.35	8.71	BGH4163	09/06/2023 03:14	KRB
SW-8270	2,4-Dinitrophenol	A	<4.35U	ug/kg dry	1	4.35	8.71	BGH4163	09/06/2023 03:14	KRB
SW-8270	Acenaphthene	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	Acenaphthylene	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	Anthracene	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	Benzo(a)anthracene	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	Benzo(a)pyrene	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	benzo(b&k)fluoranthene	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	Benzo(g,h,i)perylene	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	Chrysene	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	Diethyl phthalate	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	Fluoranthene	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	Fluorene	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	Hexachlorobenzene	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	Naphthalene	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	Pentachlorophenol	A	<4.35U	ug/kg dry	1	4.35	8.71	BGH4163	09/06/2023 03:14	KRB
SW-8270	Phenanthrene	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB
SW-8270	Phenol, Total	A	5.99J	ug/kg dry	1	4.35	8.71	BGH4163	09/06/2023 03:14	KRB
SW-8270	Pyrene	A	<2.18U	ug/kg dry	1	2.18	4.35	BGH4163	09/06/2023 03:14	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		63.7%	60-140					09/06/2023 03:14	
SW-8270	Surrogate: 2-Fluorophenol-surr		79.7%	60-140					09/06/2023 03:14	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		73.9%	60-140					09/06/2023 03:14	
SW-8270	Surrogate: Nitrobenzene-d5-surr		69.1%	60-140					09/06/2023 03:14	
SW-8270	Surrogate: Phenol-d5-surr		89.7%	60-140					09/06/2023 03:14	
SW-8270	Surrogate: p-Terphenyl-d14-surr		47.9% S	60-140					09/06/2023 03:14	

Organics by GC

SW-8081	4,4'-DDD	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	4,4'-DDE	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	4,4'-DDT	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	Aldrin	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala

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Project Number:
Project Manager: Sara Flaherty

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Sample Results
(Continued)

Client Sample ID: CPC-05-SC-230816 (Continued)
Lab Sample ID: 23H3257-20
Sample Alias:

Sample Matrix: Sediment
Date Collected: 08/16/2023 9:30
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	Chlordane (Total)	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	delta-BHC	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	Dieldrin	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	Endosulfan I	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	Endosulfan II	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	Endosulfan sulfate	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	Endrin	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	Endrin aldehyde	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	Endrin ketone	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	gamma-Chlordane	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	Heptachlor	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	Heptachlor epoxide	A	<0.523U	ug/kg dry	10	0.523	1.74	BGH3565	08/29/2023 12:21	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<26.1C+, U	ug/kg dry	10	26.1	26.1	BGH3565	08/29/2023 12:21	ala
SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		85.3%	60-140					08/29/2023 12:21	
SW-8081	Surrogate: Decachlorobiphenyl-surr		115%	60-140					08/29/2023 12:21	
SW-8082	Aroclor-1016 (PCB-1016)	A	<1.74C+, U	ug/kg dry	1	1.74	3.48	BGH4443	09/01/2023 19:24	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<1.74U	ug/kg dry	1	1.74	3.48	BGH4443	09/01/2023 19:24	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<1.74U	ug/kg dry	1	1.74	3.48	BGH4443	09/01/2023 19:24	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<1.74U	ug/kg dry	1	1.74	3.48	BGH4443	09/01/2023 19:24	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<1.74U	ug/kg dry	1	1.74	3.48	BGH4443	09/01/2023 19:24	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<1.74U	ug/kg dry	1	1.74	3.48	BGH4443	09/01/2023 19:24	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<1.74C+, U	ug/kg dry	1	1.74	3.48	BGH4443	09/01/2023 19:24	ALA
SW-8082	Aroclor-1262 (PCB-1262)	N	<1.74U	ug/kg dry	1	1.74	3.48	BGH4443	09/01/2023 19:24	ALA
SW-8082	Aroclor-1268 (PCB-1268)	N	<1.74U	ug/kg dry	1	1.74	3.48	BGH4443	09/01/2023 19:24	ALA
SW-8082	PCBs, Total	A	<1.74C+, U	ug/kg dry	1	1.74	3.48	BGH4443	09/01/2023 19:24	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		113%	60-140					09/01/2023 19:24	
SW-8082	Surrogate: Decachlorobiphenyl-surr		116%	60-140					09/01/2023 19:24	

Metals, Total



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Sample Results
(Continued)

Client Sample ID: CPC-05-SC-230816 (Continued) Sample Matrix: Sediment
 Lab Sample ID: 23H3257-20 Date Collected: 08/16/2023 9:30
 Sample Alias: Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Metals, Total (Continued)

EPA 200.8	Antimony	A	<0.0366U	mg/kg dry	1	0.0366	0.0733	BGH5034	09/05/2023 12:01	JKC
EPA 200.8	Arsenic	A	5.69	mg/kg dry	1	0.00366	0.0366	BGH5034	09/05/2023 12:01	JKC
EPA 200.8	Cadmium	A	0.110	mg/kg dry	1	0.00366	0.0733	BGH5034	09/05/2023 12:01	JKC
EPA 200.8	Chromium	A	8.62	mg/kg dry	1	0.0110	0.220	BGH5034	09/05/2023 12:01	JKC
EPA 200.8	Copper	A	7.37V	mg/kg dry	1	0.0146	0.0733	BGH5034	09/05/2023 12:01	JKC
SW-7471B	Mercury	A	0.0506	mg/kg dry	1	0.00990	0.0198	BGH3815	08/23/2023 16:37	AKR
EPA 200.8	Lead	A	17.0	mg/kg dry	5	0.0183	0.183	BGH5034	09/05/2023 12:03	JKC
EPA 200.8	Nickel	A	10.2	mg/kg dry	1	0.0733	0.0733	BGH5034	09/05/2023 12:01	JKC
EPA 200.8	Silver	A	0.0491	mg/kg dry	1	0.00183	0.0366	BGH5034	09/05/2023 12:01	JKC
EPA 200.8	Zinc	A	34.9	mg/kg dry	5	0.367	0.731	BGH5034	09/05/2023 12:03	JKC

General Chemistry

EPA 350.2	Ammonia as N	A	36.0	mg/kg dry	1	8.68	17.4	BGH3543	08/22/2023 13:20	GIW
SM 2540 G	% Solids	A	57.4V	%	1	0.100	0.100	BGH3159	08/18/2023 11:01	BP

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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-06-SC-230816
Lab Sample ID: 23H3257-21
Sample Alias:

Sample Matrix: Sediment
Date Collected: 08/16/2023 10:40
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	2,4-Dichlorophenol	A	<4.67U	ug/kg dry	1	4.67	9.35	BGH4163	09/01/2023 18:27	KRB
SW-8270	2,4-Dimethylphenol	A	<4.67U	ug/kg dry	1	4.67	9.35	BGH4163	09/01/2023 18:27	KRB
SW-8270	2,4-Dinitrophenol	A	<4.67U	ug/kg dry	1	4.67	9.35	BGH4163	09/01/2023 18:27	KRB
SW-8270	Acenaphthene	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	Acenaphthylene	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	Anthracene	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	Benzo(a)anthracene	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	Benzo(a)pyrene	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	benzo(b&k)fluoranthene	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	Benzo(g,h,i)perylene	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	Chrysene	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	Diethyl phthalate	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	Fluoranthene	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	Fluorene	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	Hexachlorobenzene	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	Naphthalene	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	Pentachlorophenol	A	<4.67U	ug/kg dry	1	4.67	9.35	BGH4163	09/01/2023 18:27	KRB
SW-8270	Phenanthrene	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB
SW-8270	Phenol, Total	A	5.00J	ug/kg dry	1	4.67	9.35	BGH4163	09/01/2023 18:27	KRB
SW-8270	Pyrene	A	<2.34U	ug/kg dry	1	2.34	4.67	BGH4163	09/01/2023 18:27	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		58.1% S	60-140					09/01/2023 18:27	
SW-8270	Surrogate: 2-Fluorophenol-surr		80.0%	60-140					09/01/2023 18:27	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		76.2%	60-140					09/01/2023 18:27	
SW-8270	Surrogate: Nitrobenzene-d5-surr		71.7%	60-140					09/01/2023 18:27	
SW-8270	Surrogate: Phenol-d5-surr		88.5%	60-140					09/01/2023 18:27	
SW-8270	Surrogate: p-Terphenyl-d14-surr		37.4% S	60-140					09/01/2023 18:27	

Organics by GC

SW-8081	4,4'-DDD	A	<0.561U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	4,4'-DDE	A	<0.561U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	4,4'-DDT	A	<0.561U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	Aldrin	A	<0.561U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala

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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

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Sample Results
(Continued)

Client Sample ID: CPC-06-SC-230816 (Continued)
Lab Sample ID: 23H3257-21
Sample Alias:

Sample Matrix: Sediment
Date Collected: 08/16/2023 10:40
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.561 U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.561 U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	Chlordane (Total)	A	<0.561 U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.561 U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	delta-BHC	A	<0.561 U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	Dieldrin	A	<0.561 U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	Endosulfan I	A	<0.561 U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	Endosulfan II	A	<0.561 U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	Endosulfan sulfate	A	<0.561 U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	Endrin	A	<0.561 U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	Endrin aldehyde	A	<0.561 U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	Endrin ketone	A	<0.561 U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.561 U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	gamma-Chlordane	A	<0.561 U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	Heptachlor	A	<0.561 U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	Heptachlor epoxide	A	<0.561 U	ug/kg dry	10	0.561	1.87	BGH3565	08/29/2023 12:57	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<28.0C+, U	ug/kg dry	10	28.0	28.0	BGH3565	08/29/2023 12:57	ala
SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		89.2%	60-140					08/29/2023 12:57	
SW-8081	Surrogate: Decachlorobiphenyl-surr		112%	60-140					08/29/2023 12:57	
SW-8082	Aroclor-1016 (PCB-1016)	A	<1.87C+, U	ug/kg dry	1	1.87	3.74	BGH4443	09/01/2023 20:01	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<1.87 U	ug/kg dry	1	1.87	3.74	BGH4443	09/01/2023 20:01	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<1.87 U	ug/kg dry	1	1.87	3.74	BGH4443	09/01/2023 20:01	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<1.87 U	ug/kg dry	1	1.87	3.74	BGH4443	09/01/2023 20:01	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<1.87 U	ug/kg dry	1	1.87	3.74	BGH4443	09/01/2023 20:01	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<1.87 U	ug/kg dry	1	1.87	3.74	BGH4443	09/01/2023 20:01	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<1.87C+, U	ug/kg dry	1	1.87	3.74	BGH4443	09/01/2023 20:01	ALA
SW-8082	Aroclor-1262 (PCB-1262)	N	<1.87 U	ug/kg dry	1	1.87	3.74	BGH4443	09/01/2023 20:01	ALA
SW-8082	Aroclor-1268 (PCB-1268)	N	<1.87 U	ug/kg dry	1	1.87	3.74	BGH4443	09/01/2023 20:01	ALA
SW-8082	PCBs, Total	A	<1.87C+, U	ug/kg dry	1	1.87	3.74	BGH4443	09/01/2023 20:01	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		153% S	60-140					09/01/2023 20:01	
SW-8082	Surrogate: Decachlorobiphenyl-surr		158% S	60-140					09/01/2023 20:01	

Metals, Total



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 Project Number:
 Project Manager: Sara Flaherty

Reported:
 10/27/2023 13:21

Sample Results
(Continued)

Client Sample ID: CPC-06-SC-230816 (Continued)
 Lab Sample ID: 23H3257-21
 Sample Alias:

Sample Matrix: Sediment
 Date Collected: 08/16/2023 10:40
 Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Metals, Total (Continued)

EPA 200.8	Antimony	A	<0.0377U	mg/kg dry	1	0.0377	0.0756	BGH5034	09/05/2023 12:06	JKC
EPA 200.8	Arsenic	A	5.93	mg/kg dry	1	0.00377	0.0377	BGH5034	09/05/2023 12:06	JKC
EPA 200.8	Cadmium	A	0.101	mg/kg dry	1	0.00377	0.0756	BGH5034	09/05/2023 12:06	JKC
EPA 200.8	Chromium	A	8.66	mg/kg dry	1	0.0113	0.226	BGH5034	09/05/2023 12:06	JKC
EPA 200.8	Copper	A	7.90V	mg/kg dry	1	0.0151	0.0756	BGH5034	09/05/2023 12:06	JKC
SW-7471B	Mercury	A	0.0271	mg/kg dry	1	0.00996	0.0199	BGH3815	08/23/2023 16:40	AKR
EPA 200.8	Lead	A	15.5	mg/kg dry	5	0.0188	0.188	BGH5034	09/05/2023 12:08	JKC
EPA 200.8	Nickel	A	10.8	mg/kg dry	1	0.0756	0.0756	BGH5034	09/05/2023 12:06	JKC
EPA 200.8	Silver	A	0.0509	mg/kg dry	1	0.00189	0.0377	BGH5034	09/05/2023 12:06	JKC
EPA 200.8	Zinc	A	38.1	mg/kg dry	5	0.378	0.753	BGH5034	09/05/2023 12:08	JKC

General Chemistry

EPA 350.2	Ammonia as N	A	23.0	mg/kg dry	1	9.33	18.7	BGH3543	08/22/2023 13:20	GIW
SM 2540 G	% Solids	A	53.5V	%	1	0.100	0.100	BGH3159	08/18/2023 11:01	BP

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1201 3rd Avenue, Suite 2600
Seattle, WA 98101

Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
10/27/2023 13:21

Sample Results (Continued)

Client Sample ID: CPC-07-SC-230816
Lab Sample ID: 23H3257-22
Sample Alias:

Sample Matrix: Sediment
Date Collected: 08/16/2023 11:40
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	2,4-Dichlorophenol	A	<4.92U	ug/kg dry	1	4.92	9.84	BGH4163	09/01/2023 19:02	KRB
SW-8270	2,4-Dimethylphenol	A	<4.92U	ug/kg dry	1	4.92	9.84	BGH4163	09/01/2023 19:02	KRB
SW-8270	2,4-Dinitrophenol	A	<4.92U	ug/kg dry	1	4.92	9.84	BGH4163	09/01/2023 19:02	KRB
SW-8270	Acenaphthene	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	Acenaphthylene	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	Anthracene	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	Benzo(a)anthracene	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	Benzo(a)pyrene	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	benzo(b&k)fluoranthene	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	Benzo(g,h,i)perylene	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	Chrysene	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	Diethyl phthalate	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	Fluoranthene	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	Fluorene	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	Hexachlorobenzene	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	Naphthalene	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	Pentachlorophenol	A	<4.92U	ug/kg dry	1	4.92	9.84	BGH4163	09/01/2023 19:02	KRB
SW-8270	Phenanthrene	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB
SW-8270	Phenol, Total	A	6.48J	ug/kg dry	1	4.92	9.84	BGH4163	09/01/2023 19:02	KRB
SW-8270	Pyrene	A	<2.46U	ug/kg dry	1	2.46	4.92	BGH4163	09/01/2023 19:02	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		55.6% S	60-140					09/01/2023 19:02	
SW-8270	Surrogate: 2-Fluorophenol-surr		74.3%	60-140					09/01/2023 19:02	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		75.1%	60-140					09/01/2023 19:02	
SW-8270	Surrogate: Nitrobenzene-d5-surr		70.4%	60-140					09/01/2023 19:02	
SW-8270	Surrogate: Phenol-d5-surr		94.5%	60-140					09/01/2023 19:02	
SW-8270	Surrogate: p-Terphenyl-d14-surr		41.7% S	60-140					09/01/2023 19:02	

Organics by GC

SW-8081	4,4'-DDD	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	4,4'-DDE	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	4,4'-DDT	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	Aldrin	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala

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Project Number:
Project Manager: Sara Flaherty

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Sample Results
(Continued)

Client Sample ID: CPC-07-SC-230816 (Continued)
Lab Sample ID: 23H3257-22
Sample Alias:

Sample Matrix: Sediment
Date Collected: 08/16/2023 11:40
Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	Chlordane (Total)	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	delta-BHC	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	Dieldrin	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	Endosulfan I	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	Endosulfan II	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	Endosulfan sulfate	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	Endrin	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	Endrin aldehyde	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	Endrin ketone	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	gamma-Chlordane	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	Heptachlor	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	Heptachlor epoxide	A	<0.590U	ug/kg dry	10	0.590	1.97	BGH3565	08/29/2023 13:34	ala
SW-8081	Toxaphene (Chlorinated Camphene)	A	<29.5C+, U	ug/kg dry	10	29.5	29.5	BGH3565	08/29/2023 13:34	ala
SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		84.0%	60-140					08/29/2023 13:34	
SW-8081	Surrogate: Decachlorobiphenyl-surr		109%	60-140					08/29/2023 13:34	
SW-8082	Aroclor-1016 (PCB-1016)	A	<1.97C+, U	ug/kg dry	1	1.97	3.94	BGH4443	09/01/2023 20:38	ALA
SW-8082	Aroclor-1221 (PCB-1221)	A	<1.97U	ug/kg dry	1	1.97	3.94	BGH4443	09/01/2023 20:38	ALA
SW-8082	Aroclor-1232 (PCB-1232)	A	<1.97U	ug/kg dry	1	1.97	3.94	BGH4443	09/01/2023 20:38	ALA
SW-8082	Aroclor-1242 (PCB-1242)	A	<1.97U	ug/kg dry	1	1.97	3.94	BGH4443	09/01/2023 20:38	ALA
SW-8082	Aroclor-1248 (PCB-1248)	A	<1.97U	ug/kg dry	1	1.97	3.94	BGH4443	09/01/2023 20:38	ALA
SW-8082	Aroclor-1254 (PCB-1254)	A	<1.97U	ug/kg dry	1	1.97	3.94	BGH4443	09/01/2023 20:38	ALA
SW-8082	Aroclor-1260 (PCB-1260)	A	<1.97C+, U	ug/kg dry	1	1.97	3.94	BGH4443	09/01/2023 20:38	ALA
SW-8082	Aroclor-1262 (PCB-1262)	N	<1.97U	ug/kg dry	1	1.97	3.94	BGH4443	09/01/2023 20:38	ALA
SW-8082	Aroclor-1268 (PCB-1268)	N	<1.97U	ug/kg dry	1	1.97	3.94	BGH4443	09/01/2023 20:38	ALA
SW-8082	PCBs, Total	A	<1.97C+, U	ug/kg dry	1	1.97	3.94	BGH4443	09/01/2023 20:38	ALA
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		123%	60-140					09/01/2023 20:38	
SW-8082	Surrogate: Decachlorobiphenyl-surr		121%	60-140					09/01/2023 20:38	

Metals, Total



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Sample Results
(Continued)

Client Sample ID: CPC-07-SC-230816 (Continued) Sample Matrix: Sediment
 Lab Sample ID: 23H3257-22 Date Collected: 08/16/2023 11:40
 Sample Alias: Collected by: E. Stewart

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Metals, Total (Continued)

EPA 200.8	Antimony	A	<0.0406U	mg/kg dry	1	0.0406	0.0815	BGH5034	09/05/2023 12:11	JKC
EPA 200.8	Arsenic	A	6.00	mg/kg dry	1	0.00406	0.0406	BGH5034	09/05/2023 12:11	JKC
EPA 200.8	Cadmium	A	0.113	mg/kg dry	1	0.00406	0.0815	BGH5034	09/05/2023 12:11	JKC
EPA 200.8	Chromium	A	8.90	mg/kg dry	1	0.0122	0.244	BGH5034	09/05/2023 12:11	JKC
EPA 200.8	Copper	A	8.60V	mg/kg dry	1	0.0162	0.0815	BGH5034	09/05/2023 12:11	JKC
SW-7471B	Mercury	A	0.0447	mg/kg dry	1	0.00998	0.0200	BGH3815	08/23/2023 16:44	AKR
EPA 200.8	Lead	A	20.0	mg/kg dry	5	0.0203	0.203	BGH5034	09/05/2023 12:13	JKC
EPA 200.8	Nickel	A	11.1	mg/kg dry	1	0.0815	0.0815	BGH5034	09/05/2023 12:11	JKC
EPA 200.8	Silver	A	0.0516	mg/kg dry	1	0.00203	0.0406	BGH5034	09/05/2023 12:11	JKC
EPA 200.8	Zinc	A	38.3	mg/kg dry	5	0.407	0.812	BGH5034	09/05/2023 12:13	JKC

General Chemistry

EPA 350.2	Ammonia as N	A	29.7	mg/kg dry	1	9.82	19.6	BGH3543	08/22/2023 13:20	GIW
SM 2540 G	% Solids	A	50.8V	%	1	0.100	0.100	BGH3159	08/18/2023 11:01	BP

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Quality Control

Semivolatile Organic Compounds by GCMS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH3513 - SW-3511

Blank (BGH3513-BLK1)

Prepared: 8/21/2023 Analyzed: 9/1/2023

1,2,4-Trichlorobenzene	<0.559	U	0.559	ug/L						
1,2-Dichlorobenzene (o-Dichlorobenzene)	<0.559	U	0.559	ug/L						
1,3-Dichlorobenzene (m-Dichlorobenzene)	<0.559	U	0.559	ug/L						
1,4-Dichlorobenzene (p-Dichlorobenzene)	<0.559	U	0.559	ug/L						
2,4-Dichlorophenol	<0.559	U	0.559	ug/L						
2,4-Dimethylphenol	<1.12	U	1.12	ug/L						
2,4-Dinitrophenol	<4.47	U	4.47	ug/L						
Acenaphthene	<0.559	U	0.559	ug/L						
Acenaphthylene	<0.559	U	0.559	ug/L						
Anthracene	<0.559	U	0.559	ug/L						
Benzo(a)anthracene	<0.559	U	0.559	ug/L						
Benzo(a)pyrene	<0.559	U	0.559	ug/L						
Benzo(g,h,i)perylene	<0.559	U	0.559	ug/L						
Chrysene	<0.559	U	0.559	ug/L						
Dibenzo(a,h)anthracene	<0.559	U	0.559	ug/L						
Diethyl phthalate	0.506	J	0.559	ug/L						
Fluoranthene	<0.559	U	0.559	ug/L						
Fluorene	<0.559	U	0.559	ug/L						
Hexachlorobenzene	<0.559	U	0.559	ug/L						
Indeno(1,2,3-cd) pyrene	<0.559	U	0.559	ug/L						
Naphthalene	<0.559	U	0.559	ug/L						
Pentachlorophenol	<1.12	U	1.12	ug/L						
Phenanthrene	<0.559	U	0.559	ug/L						
Phenol, Total	1.86		1.12	ug/L						
Pyrene	<0.559	U	0.559	ug/L						

Surrogate: 2-Fluorobiphenyl-surr	9.42	ug/L	9.94		94.8	54.6-148
Surrogate: 2-Fluorophenol-surr	21.7	ug/L	19.9		109	55-152
Surrogate: 2,4,6-Tribromophenol-surr	20.7	ug/L	19.9		104	52.4-136
Surrogate: Nitrobenzene-d5-surr	10.3	ug/L	9.94		103	52-162
Surrogate: Phenol-d5-surr	24.0	ug/L	19.9		121	58.7-152
Surrogate: p-Terphenyl-d14-surr	9.52	ug/L	9.94		95.8	51.9-147

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH3513 - SW-3511 (Continued)										
LCS (BGH3513-BS1)										
					Prepared: 8/21/2023 Analyzed: 9/1/2023					
1,2,4-Trichlorobenzene	9.44		0.560	ug/L	9.96		94.7	60-140		
1,2-Dichlorobenzene (o-Dichlorobenzene)	9.38		0.560	ug/L	9.96		94.2	60-140		
1,3-Dichlorobenzene (m-Dichlorobenzene)	8.40		0.560	ug/L	9.96		84.3	60-140		
1,4-Dichlorobenzene (p-Dichlorobenzene)	10.5		0.560	ug/L	9.96		105	60-140		
2,4-Dichlorophenol	23.6		0.560	ug/L	19.9		118	60-140		
2,4-Dimethylphenol	24.2		1.12	ug/L	19.9		121	35.9-153		
2,4-Dinitrophenol	53.2		4.48	ug/L	49.8		107	60-140		
Acenaphthene	10.5		0.560	ug/L	9.96		106	60-140		
Acenaphthylene	10.9		0.560	ug/L	9.96		109	60-140		
Anthracene	11.0		0.560	ug/L	9.96		110	60-140		
Benzo(a)anthracene	11.0		0.560	ug/L	9.96		110	60-140		
Benzo(a)pyrene	11.1		0.560	ug/L	9.96		112	60-140		
Benzo(g,h,i)perylene	11.0		0.560	ug/L	9.96		110	60-140		
Chrysene	10.3		0.560	ug/L	9.96		103	60-140		
Dibenzo(a,h)anthracene	10.9		0.560	ug/L	9.96		110	60-140		
Diethyl phthalate	10.6		0.560	ug/L	9.96		106	60-140		
Fluoranthene	11.8		0.560	ug/L	9.96		118	60-140		
Fluorene	10.8		0.560	ug/L	9.96		108	60-140		
Hexachlorobenzene	10.1		0.560	ug/L	9.96		102	60-140		
Indeno(1,2,3-cd) pyrene	10.9		0.560	ug/L	9.96		109	60-140		
Naphthalene	10.2		0.560	ug/L	9.96		102	60-140		
Pentachlorophenol	19.0		1.12	ug/L	19.9		95.5	36.8-149		
Phenanthrene	11.1		0.560	ug/L	9.96		111	60-140		
Phenol, Total	25.5		1.12	ug/L	19.9		128	60-140		
Pyrene	10.5		0.560	ug/L	9.96		105	60-140		
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Surrogate: 2-Fluorobiphenyl-surr			10.0	ug/L	9.96		101	54.6-148		
Surrogate: 2-Fluorophenol-surr			23.6	ug/L	19.9		118	55-152		
Surrogate: 2,4,6-Tribromophenol-surr			19.4	ug/L	19.9		97.2	52.4-136		
Surrogate: Nitrobenzene-d5-surr			10.6	ug/L	9.96		107	52-162		
Surrogate: Phenol-d5-surr			26.5	ug/L	19.9		133	58.7-152		
Surrogate: p-Terphenyl-d14-surr			8.94	ug/L	9.96		89.7	51.9-147		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH3513 - SW-3511 (Continued)										
LCS Dup (BGH3513-BSD1)										
					Prepared: 8/21/2023 Analyzed: 9/1/2023					
1,2,4-Trichlorobenzene	8.72		0.551	ug/L	9.80		89.0	60-140	7.95	40
1,2-Dichlorobenzene (o-Dichlorobenzene)	8.78		0.551	ug/L	9.80		89.6	60-140	6.60	40
1,3-Dichlorobenzene (m-Dichlorobenzene)	8.03		0.551	ug/L	9.80		81.9	60-140	4.54	40
1,4-Dichlorobenzene (p-Dichlorobenzene)	9.73		0.551	ug/L	9.80		99.3	60-140	7.22	40
2,4-Dichlorophenol	21.6		0.551	ug/L	19.6		110	60-140	8.51	40
2,4-Dimethylphenol	20.6		1.10	ug/L	19.6		105	35.9-153	15.9	40
2,4-Dinitrophenol	49.2		4.41	ug/L	49.0		100	60-140	7.82	40
Acenaphthene	9.73		0.551	ug/L	9.80		99.3	60-140	8.00	40
Acenaphthylene	10.1		0.551	ug/L	9.80		103	60-140	7.79	40
Anthracene	10.3		0.551	ug/L	9.80		105	60-140	6.66	40
Benzo(a)anthracene	10.5		0.551	ug/L	9.80		107	60-140	4.92	40
Benzo(a)pyrene	10.6		0.551	ug/L	9.80		108	60-140	4.96	40
Benzo(g,h,i)perylene	10.4		0.551	ug/L	9.80		106	60-140	5.75	40
Chrysene	9.78		0.551	ug/L	9.80		99.8	60-140	4.80	40
Dibenzo(a,h)anthracene	10.3		0.551	ug/L	9.80		105	60-140	6.16	40
Diethyl phthalate	9.47		0.551	ug/L	9.80		96.6	60-140	11.3	40
Fluoranthene	11.2		0.551	ug/L	9.80		115	60-140	4.81	40
Fluorene	10.0		0.551	ug/L	9.80		102	60-140	7.27	40
Hexachlorobenzene	9.83		0.551	ug/L	9.80		100	60-140	3.20	40
Indeno(1,2,3-cd) pyrene	10.3		0.551	ug/L	9.80		105	60-140	5.59	40
Naphthalene	9.34		0.551	ug/L	9.80		95.4	60-140	8.42	40
Pentachlorophenol	18.3		1.10	ug/L	19.6		93.2	36.8-149	4.04	40
Phenanthrene	10.5		0.551	ug/L	9.80		107	60-140	5.00	40
Phenol, Total	23.8		1.10	ug/L	19.6		122	60-140	6.81	40
Pyrene	10.2		0.551	ug/L	9.80		104	60-140	3.24	40
<i>Surrogate: 2-Fluorobiphenyl-surr</i>			<i>9.38</i>	<i>ug/L</i>	<i>9.80</i>		<i>95.8</i>	<i>54.6-148</i>		
<i>Surrogate: 2-Fluorophenol-surr</i>			<i>20.9</i>	<i>ug/L</i>	<i>19.6</i>		<i>107</i>	<i>55-152</i>		
<i>Surrogate: 2,4,6-Tribromophenol-surr</i>			<i>18.6</i>	<i>ug/L</i>	<i>19.6</i>		<i>95.0</i>	<i>52.4-136</i>		
<i>Surrogate: Nitrobenzene-d5-surr</i>			<i>9.92</i>	<i>ug/L</i>	<i>9.80</i>		<i>101</i>	<i>52-162</i>		
<i>Surrogate: Phenol-d5-surr</i>			<i>23.0</i>	<i>ug/L</i>	<i>19.6</i>		<i>118</i>	<i>58.7-152</i>		
<i>Surrogate: p-Terphenyl-d14-surr</i>			<i>8.55</i>	<i>ug/L</i>	<i>9.80</i>		<i>87.3</i>	<i>51.9-147</i>		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH3513 - SW-3511 (Continued)

MRL Check (BGH3513-MRL1)

Prepared: 8/21/2023 Analyzed: 9/1/2023

1,2,4-Trichlorobenzene	0.473	J	0.559	ug/L	0.497		95.2			
1,2-Dichlorobenzene (o-Dichlorobenzene)	0.673		0.559	ug/L	0.497		136			
1,3-Dichlorobenzene (m-Dichlorobenzene)	0.485	J	0.559	ug/L	0.497		97.5			
1,4-Dichlorobenzene (p-Dichlorobenzene)	0.516	J	0.559	ug/L	0.497		104			
2,4-Dichlorophenol	1.56	J1	0.559	ug/L	0.994		157	50-150		
2,4-Dimethylphenol	1.28		1.12	ug/L	0.994		129			
2,4-Dinitrophenol	4.92		4.47	ug/L	2.48		198			
Acenaphthene	0.517	J	0.559	ug/L	0.497		104			
Acenaphthylene	0.582		0.559	ug/L	0.497		117			
Anthracene	0.330	J	0.559	ug/L	0.497		66.4			
Benzo(a)anthracene	0.612		0.559	ug/L	0.497		123			
Benzo(a)pyrene	0.538	J	0.559	ug/L	0.497		108			
Benzo(g,h,i)perylene	0.481	J	0.559	ug/L	0.497		96.7			
Chrysene	0.497	J	0.559	ug/L	0.497		100			
Dibenzo(a,h)anthracene	0.575		0.559	ug/L	0.497		116			
Diethyl phthalate	0.822		0.559	ug/L	0.497		165			
Fluoranthene	0.448	J	0.559	ug/L	0.497		90.1			
Fluorene	0.625		0.559	ug/L	0.497		126			
Hexachlorobenzene	<0.559	U	0.559	ug/L	0.497					
Indeno(1,2,3-cd) pyrene	0.563		0.559	ug/L	0.497		113			
Naphthalene	0.553	J	0.559	ug/L	0.497		111			
Pentachlorophenol	0.693	J	1.12	ug/L	0.994		69.8			
Phenanthrene	0.595		0.559	ug/L	0.497		120			
Phenol, Total	2.64		1.12	ug/L	0.994		266			
Pyrene	0.419	J	0.559	ug/L	0.497		84.3			
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Surrogate: 2-Fluorobiphenyl-surr			9.05	ug/L	9.94		91.1	54.6-148		
Surrogate: 2-Fluorophenol-surr			20.7	ug/L	19.9		104	55-152		
Surrogate: 2,4,6-Tribromophenol-surr			19.7	ug/L	19.9		99.4	52.4-136		
Surrogate: Nitrobenzene-d5-surr			9.86	ug/L	9.94		99.2	52-162		
Surrogate: Phenol-d5-surr			22.3	ug/L	19.9		112	58.7-152		
Surrogate: p-Terphenyl-d14-surr			9.11	ug/L	9.94		91.7	51.9-147		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH3513 - SW-3511 (Continued)										
Matrix Spike (BGH3513-MS1)			Source: 23H3257-02			Prepared: 8/21/2023 Analyzed: 9/1/2023				
1,2,4-Trichlorobenzene	8.49		0.554	ug/L	9.84	<0.554	86.3	35.3-142		
1,2-Dichlorobenzene (o-Dichlorobenzene)	8.64		0.554	ug/L	9.84	<0.554	87.9	31.4-142		
1,3-Dichlorobenzene (m-Dichlorobenzene)	8.04		0.554	ug/L	9.84	<0.554	81.7	30.5-135		
1,4-Dichlorobenzene (p-Dichlorobenzene)	9.87		0.554	ug/L	9.84	<0.554	100	37.2-133		
2,4-Dichlorophenol	21.7		0.554	ug/L	19.7	<0.554	110	42.7-158		
2,4-Dimethylphenol	23.5		1.11	ug/L	19.7	<1.11	120	38.4-170		
2,4-Dinitrophenol	52.1		4.43	ug/L	49.2	<4.43	106	60-140		
Acenaphthene	9.90		0.554	ug/L	9.84	<0.554	101	47.3-149		
Acenaphthylene	10.1		0.554	ug/L	9.84	<0.554	103	56.5-173		
Anthracene	9.98		0.554	ug/L	9.84	<0.554	101	49.7-160		
Benzo(a)anthracene	9.45		0.554	ug/L	9.84	<0.554	96.0	41.7-151		
Benzo(a)pyrene	8.63		0.554	ug/L	9.84	<0.554	87.7	45.4-133		
Benzo(g,h,i)perylene	8.28		0.554	ug/L	9.84	<0.554	84.1	37.9-152		
Chrysene	9.07		0.554	ug/L	9.84	<0.554	92.2	51-147		
Dibenzo(a,h)anthracene	8.22		0.554	ug/L	9.84	<0.554	83.5	27.5-156		
Diethyl phthalate	9.74		0.554	ug/L	9.84	0.582	93.1	53.4-146		
Fluoranthene	10.2		0.554	ug/L	9.84	<0.554	104	45.3-156		
Fluorene	10.4		0.554	ug/L	9.84	<0.554	106	56.3-145		
Hexachlorobenzene	8.92		0.554	ug/L	9.84	<0.554	90.6	56.1-137		
Indeno(1,2,3-cd) pyrene	8.14		0.554	ug/L	9.84	<0.554	82.7	33.4-153		
Naphthalene	9.33		0.554	ug/L	9.84	<0.554	94.8	45.1-153		
Pentachlorophenol	18.4		1.11	ug/L	19.7	<1.11	93.4	42.2-151		
Phenanthrene	10.4		0.554	ug/L	9.84	<0.554	106	45.3-165		
Phenol, Total	23.2		1.11	ug/L	19.7	2.05	107	39.8-164		
Pyrene	9.60		0.554	ug/L	9.84	<0.554	97.6	46.3-149		
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Surrogate: 2-Fluorobiphenyl-surr			9.11	ug/L	9.84		92.6	54.6-148		
Surrogate: 2-Fluorophenol-surr			21.5	ug/L	19.7		109	55-152		
Surrogate: 2,4,6-Tribromophenol-surr			18.7	ug/L	19.7		95.2	52.4-136		
Surrogate: Nitrobenzene-d5-surr			10.1	ug/L	9.84		103	52-162		
Surrogate: Phenol-d5-surr			25.6	ug/L	19.7		130	58.7-152		
Surrogate: p-Terphenyl-d14-surr			7.02	ug/L	9.84		71.4	51.9-147		

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Project: Galveston Bay 2023
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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH3513 - SW-3511 (Continued)										
Matrix Spike Dup (BGH3513-MSD1)			Source: 23H3257-02			Prepared: 8/21/2023 Analyzed: 9/1/2023				
1,2,4-Trichlorobenzene	8.09		0.560	ug/L	9.95	<0.560	81.3	35.3-142	4.85	40
1,2-Dichlorobenzene (o-Dichlorobenzene)	8.10		0.560	ug/L	9.95	<0.560	81.4	31.4-142	6.52	40
1,3-Dichlorobenzene (m-Dichlorobenzene)	7.22		0.560	ug/L	9.95	<0.560	72.5	30.5-135	10.7	40
1,4-Dichlorobenzene (p-Dichlorobenzene)	8.72		0.560	ug/L	9.95	<0.560	87.7	37.2-133	12.3	40
2,4-Dichlorophenol	21.3		0.560	ug/L	19.9	<0.560	107	42.7-158	2.06	40
2,4-Dimethylphenol	22.9		1.12	ug/L	19.9	<1.12	115	38.4-170	2.59	40
2,4-Dinitrophenol	53.8		4.48	ug/L	49.8	<4.48	108	60-140	3.23	40
Acenaphthene	9.34		0.560	ug/L	9.95	<0.560	93.8	47.3-149	5.86	40
Acenaphthylene	9.69		0.560	ug/L	9.95	<0.560	97.4	56.5-173	4.36	40
Anthracene	8.71		0.560	ug/L	9.95	<0.560	87.5	49.7-160	13.6	40
Benzo(a)anthracene	9.21		0.560	ug/L	9.95	<0.560	92.5	41.7-151	2.55	40
Benzo(a)pyrene	7.87		0.560	ug/L	9.95	<0.560	79.1	45.4-133	9.23	40
Benzo(g,h,i)perylene	7.61		0.560	ug/L	9.95	<0.560	76.4	37.9-152	8.49	40
Chrysene	8.36		0.560	ug/L	9.95	<0.560	84.0	51-147	8.19	40
Dibenzo(a,h)anthracene	7.70		0.560	ug/L	9.95	<0.560	77.3	27.5-156	6.54	40
Diethyl phthalate	9.49		0.560	ug/L	9.95	0.582	89.5	53.4-146	2.63	40
Fluoranthene	9.55		0.560	ug/L	9.95	<0.560	95.9	45.3-156	6.82	40
Fluorene	9.53		0.560	ug/L	9.95	<0.560	95.8	56.3-145	8.82	40
Hexachlorobenzene	8.08		0.560	ug/L	9.95	<0.560	81.2	56.1-137	9.79	40
Indeno(1,2,3-cd) pyrene	7.59		0.560	ug/L	9.95	<0.560	76.2	33.4-153	7.01	40
Naphthalene	9.04		0.560	ug/L	9.95	<0.560	90.8	45.1-153	3.21	40
Pentachlorophenol	16.7		1.12	ug/L	19.9	<1.12	84.1	42.2-151	9.37	40
Phenanthrene	9.37		0.560	ug/L	9.95	<0.560	94.1	45.3-165	10.5	40
Phenol, Total	21.9		1.12	ug/L	19.9	2.05	99.9	39.8-164	5.59	40
Pyrene	8.66		0.560	ug/L	9.95	<0.560	87.1	46.3-149	10.3	40
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Surrogate: 2-Fluorobiphenyl-surr			8.80	ug/L	9.95		88.5	54.6-148		
Surrogate: 2-Fluorophenol-surr			21.4	ug/L	19.9		108	55-152		
Surrogate: 2,4,6-Tribromophenol-surr			17.6	ug/L	19.9		88.2	52.4-136		
Surrogate: Nitrobenzene-d5-surr			9.65	ug/L	9.95		97.0	52-162		
Surrogate: Phenol-d5-surr			24.0	ug/L	19.9		121	58.7-152		
Surrogate: p-Terphenyl-d14-surr			6.74	ug/L	9.95		67.7	51.9-147		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH4163 - SW-3570										
Blank (BGH4163-BLK1)										
Prepared: 8/24/2023 Analyzed: 9/1/2023										
1,2,4-Trichlorobenzene	<2.50	U	2.50	ug/kg wet						
1,2-Dichlorobenzene (o-Dichlorobenzene)	<2.50	U	2.50	ug/kg wet						
1,3-Dichlorobenzene (m-Dichlorobenzene)	<2.50	U	2.50	ug/kg wet						
1,4-Dichlorobenzene (p-Dichlorobenzene)	<2.50	U	2.50	ug/kg wet						
2,4-Dichlorophenol	<5.00	U	5.00	ug/kg wet						
2,4-Dimethylphenol	<5.00	U	5.00	ug/kg wet						
2,4-Dinitrophenol	<5.00	U	5.00	ug/kg wet						
Acenaphthene	<2.50	U	2.50	ug/kg wet						
Acenaphthylene	<2.50	U	2.50	ug/kg wet						
Anthracene	<2.50	U	2.50	ug/kg wet						
Benzo(a)anthracene	<2.50	U	2.50	ug/kg wet						
Benzo(a)pyrene	<2.50	U	2.50	ug/kg wet						
Benzo(g,h,i)perylene	<2.50	U	2.50	ug/kg wet						
Chrysene	<2.50	U	2.50	ug/kg wet						
Dibenzo(a,h)anthracene	<2.50	U	2.50	ug/kg wet						
Diethyl phthalate	<2.50	U	2.50	ug/kg wet						
Fluoranthene	<2.50	U	2.50	ug/kg wet						
Fluorene	<2.50	U	2.50	ug/kg wet						
Hexachlorobenzene	<2.50	U	2.50	ug/kg wet						
Indeno(1,2,3-cd) pyrene	<2.50	U	2.50	ug/kg wet						
Naphthalene	<2.50	U	2.50	ug/kg wet						
Pentachlorophenol	<5.00	U	5.00	ug/kg wet						
Phenanthrene	<2.50	U	2.50	ug/kg wet						
Phenol, Total	<5.00	U	5.00	ug/kg wet						
Pyrene	<2.50	U	2.50	ug/kg wet						
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Surrogate: 2-Fluorobiphenyl-surr			14.6	ug/kg wet	20.0		73.1	60-140		
Surrogate: 2-Fluorophenol-surr			33.0	ug/kg wet	40.0		82.4	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			31.6	ug/kg wet	40.0		79.0	60-140		
Surrogate: Nitrobenzene-d5-surr			16.1	ug/kg wet	20.0		80.3	60-140		
Surrogate: Phenol-d5-surr			34.4	ug/kg wet	40.0		86.0	60-140		
Surrogate: p-Terphenyl-d14-surr			14.3	ug/kg wet	20.0		71.6	60-140		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH4163 - SW-3570 (Continued)										
LCS (BGH4163-BS1)										
					Prepared: 8/24/2023 Analyzed: 9/1/2023					
1,2,4-Trichlorobenzene	14.4		2.50	ug/kg wet	20.0		72.0	60-140		
1,2-Dichlorobenzene (o-Dichlorobenzene)	13.4		2.50	ug/kg wet	20.0		66.8	60-140		
1,3-Dichlorobenzene (m-Dichlorobenzene)	13.2		2.50	ug/kg wet	20.0		65.8	60-140		
1,4-Dichlorobenzene (p-Dichlorobenzene)	15.0		2.50	ug/kg wet	20.0		74.9	60-140		
2,4-Dichlorophenol	33.6		5.00	ug/kg wet	40.0		83.9	60-140		
2,4-Dimethylphenol	33.9		5.00	ug/kg wet	40.0		84.7	60-140		
2,4-Dinitrophenol	33.5		5.00	ug/kg wet	100		33.5	10-50.4		
Acenaphthene	15.2		2.50	ug/kg wet	20.0		75.8	60-140		
Acenaphthylene	15.4		2.50	ug/kg wet	20.0		76.8	60-140		
Anthracene	15.4		2.50	ug/kg wet	20.0		77.1	60-140		
Benzo(a)anthracene	17.5		2.50	ug/kg wet	20.0		87.3	60-140		
Benzo(a)pyrene	16.8		2.50	ug/kg wet	20.0		83.8	60-140		
Benzo(g,h,i)perylene	16.1		2.50	ug/kg wet	20.0		80.4	60-140		
Chrysene	15.4		2.50	ug/kg wet	20.0		77.0	60-140		
Dibenzo(a,h)anthracene	15.9		2.50	ug/kg wet	20.0		79.6	60-140		
Diethyl phthalate	15.6		2.50	ug/kg wet	20.0		77.8	60-140		
Fluoranthene	16.9		2.50	ug/kg wet	20.0		84.7	60-140		
Fluorene	16.7		2.50	ug/kg wet	20.0		83.6	60-140		
Hexachlorobenzene	15.2		2.50	ug/kg wet	20.0		75.9	60-140		
Indeno(1,2,3-cd) pyrene	15.8		2.50	ug/kg wet	20.0		79.1	60-140		
Naphthalene	14.9		2.50	ug/kg wet	20.0		74.5	60-140		
Pentachlorophenol	27.8		5.00	ug/kg wet	40.0		69.4	60-140		
Phenanthrene	16.0		2.50	ug/kg wet	20.0		79.8	60-140		
Phenol, Total	34.6		5.00	ug/kg wet	40.0		86.6	60-140		
Pyrene	16.0		2.50	ug/kg wet	20.0		80.0	60-140		
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Surrogate: 2-Fluorobiphenyl-surr			12.9	ug/kg wet	20.0		64.7	60-140		
Surrogate: 2-Fluorophenol-surr			32.5	ug/kg wet	40.0		81.1	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			30.3	ug/kg wet	40.0		75.8	60-140		
Surrogate: Nitrobenzene-d5-surr			15.5	ug/kg wet	20.0		77.6	60-140		
Surrogate: Phenol-d5-surr			37.3	ug/kg wet	40.0		93.3	60-140		
Surrogate: p-Terphenyl-d14-surr			13.6	ug/kg wet	20.0		68.2	60-140		

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Quality Control
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Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH4163 - SW-3570 (Continued)										
LCS Dup (BGH4163-BSD1)										
					Prepared: 8/24/2023 Analyzed: 9/1/2023					
1,2,4-Trichlorobenzene	13.8		2.50	ug/kg wet	20.0		69.1	60-140	4.11	40
1,2-Dichlorobenzene (o-Dichlorobenzene)	12.8		2.50	ug/kg wet	20.0		64.0	60-140	4.35	40
1,3-Dichlorobenzene (m-Dichlorobenzene)	12.0	J1	2.50	ug/kg wet	20.0		59.9	60-140	9.46	40
1,4-Dichlorobenzene (p-Dichlorobenzene)	14.1		2.50	ug/kg wet	20.0		70.4	60-140	6.18	40
2,4-Dichlorophenol	33.8		5.00	ug/kg wet	40.0		84.4	60-140	0.653	40
2,4-Dimethylphenol	37.0		5.00	ug/kg wet	40.0		92.6	60-140	8.89	40
2,4-Dinitrophenol	71.0	J1	5.00	ug/kg wet	100		71.0	10-50.4	71.8	40
Acenaphthene	15.4		2.50	ug/kg wet	20.0		76.8	60-140	1.31	40
Acenaphthylene	15.5		2.50	ug/kg wet	20.0		77.7	60-140	1.22	40
Anthracene	15.1		2.50	ug/kg wet	20.0		75.4	60-140	2.24	40
Benzo(a)anthracene	17.9		2.50	ug/kg wet	20.0		89.3	60-140	2.22	40
Benzo(a)pyrene	17.7		2.50	ug/kg wet	20.0		88.4	60-140	5.32	40
Benzo(g,h,i)perylene	17.4		2.50	ug/kg wet	20.0		87.2	60-140	8.07	40
Chrysene	15.8		2.50	ug/kg wet	20.0		79.2	60-140	2.89	40
Dibenzo(a,h)anthracene	16.6		2.50	ug/kg wet	20.0		83.2	60-140	4.47	40
Diethyl phthalate	16.1		2.50	ug/kg wet	20.0		80.6	60-140	3.57	40
Fluoranthene	17.4		2.50	ug/kg wet	20.0		87.0	60-140	2.60	40
Fluorene	16.4		2.50	ug/kg wet	20.0		82.0	60-140	1.89	40
Hexachlorobenzene	15.1		2.50	ug/kg wet	20.0		75.5	60-140	0.644	40
Indeno(1,2,3-cd) pyrene	17.0		2.50	ug/kg wet	20.0		85.1	60-140	7.35	40
Naphthalene	14.4		2.50	ug/kg wet	20.0		71.9	60-140	3.57	40
Pentachlorophenol	27.9		5.00	ug/kg wet	40.0		69.8	60-140	0.615	40
Phenanthrene	15.7		2.50	ug/kg wet	20.0		78.6	60-140	1.45	40
Phenol, Total	31.6		5.00	ug/kg wet	40.0		79.1	60-140	9.10	40
Pyrene	15.6		2.50	ug/kg wet	20.0		78.1	60-140	2.39	40
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Surrogate: 2-Fluorobiphenyl-surr			14.2	ug/kg wet	20.0		71.2	60-140		
Surrogate: 2-Fluorophenol-surr			33.2	ug/kg wet	40.0		83.0	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			30.1	ug/kg wet	40.0		75.3	60-140		
Surrogate: Nitrobenzene-d5-surr			16.2	ug/kg wet	20.0		80.8	60-140		
Surrogate: Phenol-d5-surr			36.1	ug/kg wet	40.0		90.2	60-140		
Surrogate: p-Terphenyl-d14-surr			13.8	ug/kg wet	20.0		69.0	60-140		

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Quality Control
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Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH4163 - SW-3570 (Continued)

MRL Check (BGH4163-MRL1)

Prepared: 8/24/2023 Analyzed: 9/1/2023

1,2,4-Trichlorobenzene	1.71	J	2.50	ug/kg wet	2.00		85.4			
1,2-Dichlorobenzene (o-Dichlorobenzene)	1.75	J	2.50	ug/kg wet	2.00		87.6			
1,3-Dichlorobenzene (m-Dichlorobenzene)	1.29	J	2.50	ug/kg wet	2.00		64.5			
1,4-Dichlorobenzene (p-Dichlorobenzene)	1.54	J	2.50	ug/kg wet	2.00		77.2			
2,4-Dichlorophenol	4.46	J	5.00	ug/kg wet	4.00		112			
2,4-Dimethylphenol	4.02	J	5.00	ug/kg wet	4.00		101			
2,4-Dinitrophenol	9.30		5.00	ug/kg wet	10.0		93.0	50-150		
Acenaphthene	1.56	J	2.50	ug/kg wet	2.00		77.8			
Acenaphthylene	1.81	J	2.50	ug/kg wet	2.00		90.4			
Anthracene	<2.50	U	2.50	ug/kg wet	2.00					
Benzo(a)anthracene	1.93	J	2.50	ug/kg wet	2.00		96.6			
Benzo(a)pyrene	1.61	J	2.50	ug/kg wet	2.00		80.7			
Benzo(g,h,i)perylene	1.45	J	2.50	ug/kg wet	2.00		72.4			
Chrysene	1.49	J	2.50	ug/kg wet	2.00		74.3			
Dibenzo(a,h)anthracene	1.57	J	2.50	ug/kg wet	2.00		78.4			
Diethyl phthalate	2.20	J	2.50	ug/kg wet	2.00		110			
Fluoranthene	1.31	J	2.50	ug/kg wet	2.00		65.3			
Fluorene	1.82	J	2.50	ug/kg wet	2.00		91.0			
Hexachlorobenzene	<2.50	U	2.50	ug/kg wet	2.00					
Indeno(1,2,3-cd) pyrene	1.64	J	2.50	ug/kg wet	2.00		81.8			
Naphthalene	1.56	J	2.50	ug/kg wet	2.00		77.9			
Pentachlorophenol	<5.00	U	5.00	ug/kg wet	4.00					
Phenanthrene	1.79	J	2.50	ug/kg wet	2.00		89.3			
Phenol, Total	5.51		5.00	ug/kg wet	4.00		138			
Pyrene	<2.50	U	2.50	ug/kg wet	2.00					
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Surrogate: 2-Fluorobiphenyl-surr			13.5	ug/kg wet	20.0		67.7	60-140		
Surrogate: 2-Fluorophenol-surr			32.8	ug/kg wet	40.0		82.0	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			30.0	ug/kg wet	40.0		75.0	60-140		
Surrogate: Nitrobenzene-d5-surr			15.1	ug/kg wet	20.0		75.7	60-140		
Surrogate: Phenol-d5-surr			34.7	ug/kg wet	40.0		86.7	60-140		
Surrogate: p-Terphenyl-d14-surr			13.5	ug/kg wet	20.0		67.7	60-140		

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Quality Control
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Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH4163 - SW-3570 (Continued)										
Matrix Spike (BGH4163-MS1)			Source: 23H3257-17			Prepared: 8/24/2023 Analyzed: 9/1/2023				
1,2,4-Trichlorobenzene	21.2		3.27	ug/kg dry	26.2	<3.27	80.8	60-140		
1,2-Dichlorobenzene (o-Dichlorobenzene)	20.2		3.27	ug/kg dry	26.2	<3.27	77.2	60-140		
1,3-Dichlorobenzene (m-Dichlorobenzene)	19.1		3.27	ug/kg dry	26.2	<3.27	72.8	60-140		
1,4-Dichlorobenzene (p-Dichlorobenzene)	21.9		3.27	ug/kg dry	26.2	<3.27	83.6	60-140		
2,4-Dichlorophenol	44.5		6.55	ug/kg dry	52.4	<6.55	84.9	60-140		
2,4-Dimethylphenol	46.9		6.55	ug/kg dry	52.4	<6.55	89.5	60-140		
2,4-Dinitrophenol	14.5		6.55	ug/kg dry	131	<6.55	11.1	10-51.3		
Acenaphthene	20.2		3.27	ug/kg dry	26.2	<3.27	77.2	60-140		
Acenaphthylene	21.4		3.27	ug/kg dry	26.2	<3.27	81.7	60-140		
Anthracene	19.3		3.27	ug/kg dry	26.2	<3.27	73.9	60-140		
Benzo(a)anthracene	24.0		3.27	ug/kg dry	26.2	<3.27	91.6	60-140		
Benzo(a)pyrene	22.6		3.27	ug/kg dry	26.2	<3.27	86.3	60-140		
Benzo(g,h,i)perylene	25.0		3.27	ug/kg dry	26.2	<3.27	95.4	60-140		
Chrysene	20.7		3.27	ug/kg dry	26.2	<3.27	78.9	60-140		
Dibenzo(a,h)anthracene	24.6		3.27	ug/kg dry	26.2	<3.27	93.8	60-140		
Diethyl phthalate	19.4		3.27	ug/kg dry	26.2	<3.27	73.9	60-140		
Fluoranthene	20.4		3.27	ug/kg dry	26.2	<3.27	77.9	60-140		
Fluorene	21.8		3.27	ug/kg dry	26.2	<3.27	83.1	60-140		
Hexachlorobenzene	20.2		3.27	ug/kg dry	26.2	<3.27	77.2	60-140		
Indeno(1,2,3-cd) pyrene	24.3		3.27	ug/kg dry	26.2	<3.27	92.6	60-140		
Naphthalene	19.8		3.27	ug/kg dry	26.2	<3.27	75.6	60-140		
Pentachlorophenol	34.7		6.55	ug/kg dry	52.4	<6.55	66.3	60-140		
Phenanthrene	21.0		3.27	ug/kg dry	26.2	<3.27	80.2	60-140		
Phenol, Total	47.0		6.55	ug/kg dry	52.4	5.58	79.1	60-140		
Pyrene	18.4		3.27	ug/kg dry	26.2	<3.27	70.3	60-140		
<hr/>										
Surrogate: 2-Fluorobiphenyl-surr			18.7	ug/kg dry	26.2		71.3	60-140		
Surrogate: 2-Fluorophenol-surr			40.8	ug/kg dry	52.4		77.8	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			42.0	ug/kg dry	52.4		80.1	60-140		
Surrogate: Nitrobenzene-d5-surr			19.4	ug/kg dry	26.2		73.9	60-140		
Surrogate: Phenol-d5-surr			46.8	ug/kg dry	52.4		89.3	60-140		
Surrogate: p-Terphenyl-d14-surr		S	15.0	ug/kg dry	26.2		57.4	60-140		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH4163 - SW-3570 (Continued)										
Matrix Spike Dup (BGH4163-MSD1)			Source: 23H3257-17			Prepared: 8/24/2023 Analyzed: 9/1/2023				
1,2,4-Trichlorobenzene	20.2		3.27	ug/kg dry	26.2	<3.27	77.1	60-140	4.64	40
1,2-Dichlorobenzene (o-Dichlorobenzene)	18.3		3.27	ug/kg dry	26.2	<3.27	69.7	60-140	10.1	40
1,3-Dichlorobenzene (m-Dichlorobenzene)	16.8		3.27	ug/kg dry	26.2	<3.27	64.1	60-140	12.8	40
1,4-Dichlorobenzene (p-Dichlorobenzene)	18.6		3.27	ug/kg dry	26.2	<3.27	71.0	60-140	16.4	40
2,4-Dichlorophenol	48.9		6.55	ug/kg dry	52.4	<6.55	93.2	60-140	9.34	40
2,4-Dimethylphenol	51.4		6.55	ug/kg dry	52.4	<6.55	98.0	60-140	9.06	40
2,4-Dinitrophenol	16.8		6.55	ug/kg dry	131	<6.55	12.8	10-51.3	14.6	40
Acenaphthene	21.5		3.27	ug/kg dry	26.2	<3.27	82.2	60-140	6.37	40
Acenaphthylene	22.1		3.27	ug/kg dry	26.2	<3.27	84.4	60-140	3.20	40
Anthracene	20.9		3.27	ug/kg dry	26.2	<3.27	79.8	60-140	7.69	40
Benzo(a)anthracene	24.1		3.27	ug/kg dry	26.2	<3.27	91.9	60-140	0.376	40
Benzo(a)pyrene	20.4		3.27	ug/kg dry	26.2	<3.27	78.0	60-140	10.2	40
Benzo(g,h,i)perylene	18.3		3.27	ug/kg dry	26.2	<3.27	69.9	60-140	30.8	40
Chrysene	20.9		3.27	ug/kg dry	26.2	<3.27	79.7	60-140	0.996	40
Dibenzo(a,h)anthracene	18.7		3.27	ug/kg dry	26.2	<3.27	71.2	60-140	27.4	40
Diethyl phthalate	19.9		3.27	ug/kg dry	26.2	<3.27	76.1	60-140	2.91	40
Fluoranthene	23.6		3.27	ug/kg dry	26.2	<3.27	90.2	60-140	14.7	40
Fluorene	21.5		3.27	ug/kg dry	26.2	<3.27	82.2	60-140	1.06	40
Hexachlorobenzene	19.5		3.27	ug/kg dry	26.2	<3.27	74.6	60-140	3.39	40
Indeno(1,2,3-cd) pyrene	17.9		3.27	ug/kg dry	26.2	<3.27	68.4	60-140	30.1	40
Naphthalene	20.1		3.27	ug/kg dry	26.2	<3.27	76.8	60-140	1.55	40
Pentachlorophenol	35.5		6.55	ug/kg dry	52.4	<6.55	67.8	60-140	2.28	40
Phenanthrene	24.0		3.27	ug/kg dry	26.2	<3.27	91.5	60-140	13.2	40
Phenol, Total	46.3		6.55	ug/kg dry	52.4	5.58	77.7	60-140	1.60	40
Pyrene	20.1		3.27	ug/kg dry	26.2	<3.27	76.9	60-140	8.98	40
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Surrogate: 2-Fluorobiphenyl-surr			20.9	ug/kg dry	26.2		79.8	60-140		
Surrogate: 2-Fluorophenol-surr			43.3	ug/kg dry	52.4		82.6	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			43.9	ug/kg dry	52.4		83.7	60-140		
Surrogate: Nitrobenzene-d5-surr			20.2	ug/kg dry	26.2		76.9	60-140		
Surrogate: Phenol-d5-surr			50.1	ug/kg dry	52.4		95.6	60-140		
Surrogate: p-Terphenyl-d14-surr		S	14.7	ug/kg dry	26.2		56.3	60-140		

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Quality Control
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Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGI0719 - SW-3570										
Blank (BGI0719-BLK1)					Prepared & Analyzed: 9/6/2023					
1,2,4-Trichlorobenzene	<2.45	U	2.45	ug/kg wet						
1,2-Dichlorobenzene (o-Dichlorobenzene)	<2.45	U	2.45	ug/kg wet						
1,3-Dichlorobenzene (m-Dichlorobenzene)	<2.45	U	2.45	ug/kg wet						
1,4-Dichlorobenzene (p-Dichlorobenzene)	<2.45	U	2.45	ug/kg wet						
2,4-Dichlorophenol	<4.90	U	4.90	ug/kg wet						
2,4-Dimethylphenol	<4.90	U	4.90	ug/kg wet						
2,4-Dinitrophenol	<4.90	U	4.90	ug/kg wet						
Acenaphthene	<2.45	U	2.45	ug/kg wet						
Acenaphthylene	<2.45	U	2.45	ug/kg wet						
Anthracene	<2.45	U	2.45	ug/kg wet						
Benzo(a)anthracene	<2.45	U	2.45	ug/kg wet						
Benzo(a)pyrene	<2.45	U	2.45	ug/kg wet						
Benzo(g,h,i)perylene	<2.45	U	2.45	ug/kg wet						
Chrysene	<2.45	U	2.45	ug/kg wet						
Dibenzo(a,h)anthracene	<2.45	U	2.45	ug/kg wet						
Diethyl phthalate	<2.45	U	2.45	ug/kg wet						
Fluoranthene	<2.45	U	2.45	ug/kg wet						
Fluorene	<2.45	U	2.45	ug/kg wet						
Hexachlorobenzene	<2.45	U	2.45	ug/kg wet						
Indeno(1,2,3-cd) pyrene	<2.45	U	2.45	ug/kg wet						
Naphthalene	<2.45	U	2.45	ug/kg wet						
Pentachlorophenol	<4.90	U	4.90	ug/kg wet						
Phenanthrene	<2.45	U	2.45	ug/kg wet						
Phenol, Total	<4.90	U	4.90	ug/kg wet						
Pyrene	<2.45	U	2.45	ug/kg wet						
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Surrogate: 2-Fluorobiphenyl-surr			14.4	ug/kg wet	19.6		73.3	60-140		
Surrogate: 2-Fluorophenol-surr			31.7	ug/kg wet	39.2		80.9	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			33.4	ug/kg wet	39.2		85.3	60-140		
Surrogate: Nitrobenzene-d5-surr			17.1	ug/kg wet	19.6		87.4	60-140		
Surrogate: Phenol-d5-surr			33.9	ug/kg wet	39.2		86.6	60-140		
Surrogate: p-Terphenyl-d14-surr			16.6	ug/kg wet	19.6		84.8	60-140		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGI0719 - SW-3570 (Continued)										
LCS (BGI0719-BS1)										
Prepared & Analyzed: 9/6/2023										
1,2,4-Trichlorobenzene	10.6	J1	2.32	ug/kg wet	18.6		57.4	60-140		
1,2-Dichlorobenzene (o-Dichlorobenzene)	10.8	J1	2.32	ug/kg wet	18.6		58.0	60-140		
1,3-Dichlorobenzene (m-Dichlorobenzene)	9.58	J1	2.32	ug/kg wet	18.6		51.6	60-140		
1,4-Dichlorobenzene (p-Dichlorobenzene)	10.4	J1	2.32	ug/kg wet	18.6		56.0	60-140		
2,4-Dichlorophenol	32.2		4.64	ug/kg wet	37.1		86.7	60-140		
2,4-Dimethylphenol	35.3		4.64	ug/kg wet	37.1		95.0	60-140		
2,4-Dinitrophenol	17.2		4.64	ug/kg wet	92.8		18.6	10-50.4		
Acenaphthene	14.6		2.32	ug/kg wet	18.6		78.5	60-140		
Acenaphthylene	18.6		2.32	ug/kg wet	18.6		100	60-140		
Anthracene	15.7		2.32	ug/kg wet	18.6		84.7	60-140		
Benzo(a)anthracene	17.0		2.32	ug/kg wet	18.6		91.4	60-140		
Benzo(a)pyrene	15.7		2.32	ug/kg wet	18.6		84.5	60-140		
Benzo(g,h,i)perylene	16.4		2.32	ug/kg wet	18.6		88.3	60-140		
Chrysene	11.4		2.32	ug/kg wet	18.6		61.3	60-140		
Dibenzo(a,h)anthracene	14.1		2.32	ug/kg wet	18.6		76.1	60-140		
Diethyl phthalate	15.4		2.32	ug/kg wet	18.6		83.2	60-140		
Fluoranthene	16.7		2.32	ug/kg wet	18.6		89.9	60-140		
Fluorene	15.3		2.32	ug/kg wet	18.6		82.7	60-140		
Hexachlorobenzene	16.0		2.32	ug/kg wet	18.6		86.2	60-140		
Indeno(1,2,3-cd) pyrene	16.2		2.32	ug/kg wet	18.6		87.2	60-140		
Naphthalene	13.0		2.32	ug/kg wet	18.6		69.9	60-140		
Pentachlorophenol	30.8		4.64	ug/kg wet	37.1		83.1	60-140		
Phenanthrene	16.0		2.32	ug/kg wet	18.6		86.3	60-140		
Phenol, Total	30.4		4.64	ug/kg wet	37.1		81.9	60-140		
Pyrene	15.8		2.32	ug/kg wet	18.6		85.0	60-140		
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Surrogate: 2-Fluorobiphenyl-surr			13.9	ug/kg wet	18.6		75.1	60-140		
Surrogate: 2-Fluorophenol-surr			30.8	ug/kg wet	37.1		83.0	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			31.7	ug/kg wet	37.1		85.4	60-140		
Surrogate: Nitrobenzene-d5-surr			16.1	ug/kg wet	18.6		86.8	60-140		
Surrogate: Phenol-d5-surr			35.5	ug/kg wet	37.1		95.7	60-140		
Surrogate: p-Terphenyl-d14-surr			15.5	ug/kg wet	18.6		83.5	60-140		

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Quality Control
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Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGI0719 - SW-3570 (Continued)										
LCS Dup (BGI0719-BSD1)										
Prepared & Analyzed: 9/6/2023										
1,2,4-Trichlorobenzene	12.2		2.32	ug/kg wet	18.5		66.0	60-140	13.8	40
1,2-Dichlorobenzene (o-Dichlorobenzene)	11.5		2.32	ug/kg wet	18.5		62.0	60-140	6.62	40
1,3-Dichlorobenzene (m-Dichlorobenzene)	11.4		2.32	ug/kg wet	18.5		61.6	60-140	17.6	40
1,4-Dichlorobenzene (p-Dichlorobenzene)	11.9		2.32	ug/kg wet	18.5		64.4	60-140	14.0	40
2,4-Dichlorophenol	30.1		4.63	ug/kg wet	37.1		81.2	60-140	6.68	40
2,4-Dimethylphenol	36.0		4.63	ug/kg wet	37.1		97.1	60-140	2.10	40
2,4-Dinitrophenol	24.1		4.63	ug/kg wet	92.7		26.0	10-50.4	33.3	40
Acenaphthene	14.8		2.32	ug/kg wet	18.5		79.8	60-140	1.63	40
Acenaphthylene	19.6		2.32	ug/kg wet	18.5		106	60-140	5.32	40
Anthracene	15.7		2.32	ug/kg wet	18.5		84.8	60-140	0.0242	40
Benzo(a)anthracene	16.9		2.32	ug/kg wet	18.5		91.0	60-140	0.569	40
Benzo(a)pyrene	16.1		2.32	ug/kg wet	18.5		86.8	60-140	2.60	40
Benzo(g,h,i)perylene	16.8		2.32	ug/kg wet	18.5		90.8	60-140	2.69	40
Chrysene	11.0	J1	2.32	ug/kg wet	18.5		59.3	60-140	3.45	40
Dibenzo(a,h)anthracene	15.0		2.32	ug/kg wet	18.5		81.1	60-140	6.19	40
Diethyl phthalate	15.6		2.32	ug/kg wet	18.5		84.4	60-140	1.33	40
Fluoranthene	17.1		2.32	ug/kg wet	18.5		92.2	60-140	2.42	40
Fluorene	15.7		2.32	ug/kg wet	18.5		84.6	60-140	2.13	40
Hexachlorobenzene	16.5		2.32	ug/kg wet	18.5		88.8	60-140	2.79	40
Indeno(1,2,3-cd) pyrene	17.1		2.32	ug/kg wet	18.5		92.3	60-140	5.55	40
Naphthalene	14.1		2.32	ug/kg wet	18.5		76.3	60-140	8.65	40
Pentachlorophenol	31.0		4.63	ug/kg wet	37.1		83.7	60-140	0.562	40
Phenanthrene	15.7		2.32	ug/kg wet	18.5		84.9	60-140	1.70	40
Phenol, Total	29.0		4.63	ug/kg wet	37.1		78.2	60-140	4.79	40
Pyrene	15.3		2.32	ug/kg wet	18.5		82.6	60-140	2.95	40
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Surrogate: 2-Fluorobiphenyl-surr			14.2	ug/kg wet	18.5		76.4	60-140		
Surrogate: 2-Fluorophenol-surr			29.9	ug/kg wet	37.1		80.7	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			30.0	ug/kg wet	37.1		80.9	60-140		
Surrogate: Nitrobenzene-d5-surr			15.4	ug/kg wet	18.5		83.1	60-140		
Surrogate: Phenol-d5-surr			35.3	ug/kg wet	37.1		95.3	60-140		
Surrogate: p-Terphenyl-d14-surr			13.2	ug/kg wet	18.5		71.3	60-140		

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Quality Control
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Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGI0719 - SW-3570 (Continued)

MRL Check (BGI0719-MRL1)

Prepared & Analyzed: 9/6/2023

1,2,4-Trichlorobenzene	1.24	J	2.48	ug/kg wet	1.98					
1,2-Dichlorobenzene (o-Dichlorobenzene)	1.36	J	2.48	ug/kg wet	1.98		68.5			
1,3-Dichlorobenzene (m-Dichlorobenzene)	<2.48	U	2.48	ug/kg wet	1.98					
1,4-Dichlorobenzene (p-Dichlorobenzene)	<2.48	U	2.48	ug/kg wet	1.98					
2,4-Dichlorophenol	3.39	J	4.95	ug/kg wet	3.96		85.6			
2,4-Dimethylphenol	3.69	J	4.95	ug/kg wet	3.96		93.1			
2,4-Dinitrophenol	7.36		4.95	ug/kg wet	9.90		74.3	50-150		
Acenaphthene	1.69	J	2.48	ug/kg wet	1.98		85.5			
Acenaphthylene	1.81	J	2.48	ug/kg wet	1.98		91.2			
Anthracene	1.73	J	2.48	ug/kg wet	1.98		87.2			
Benzo(a)anthracene	1.80	J	2.48	ug/kg wet	1.98		91.0			
Benzo(a)pyrene	1.76	J	2.48	ug/kg wet	1.98		89.0			
Benzo(g,h,i)perylene	1.80	J	2.48	ug/kg wet	1.98		91.1			
Chrysene	1.73	J	2.48	ug/kg wet	1.98		87.3			
Dibenzo(a,h)anthracene	1.73	J	2.48	ug/kg wet	1.98		87.5			
Diethyl phthalate	2.36	J	2.48	ug/kg wet	1.98		119			
Fluoranthene	1.71	J	2.48	ug/kg wet	1.98		86.5			
Fluorene	1.85	J	2.48	ug/kg wet	1.98		93.4			
Hexachlorobenzene	1.63	J	2.48	ug/kg wet	1.98		82.2			
Indeno(1,2,3-cd) pyrene	1.78	J	2.48	ug/kg wet	1.98		89.9			
Naphthalene	1.56	J	2.48	ug/kg wet	1.98		78.9			
Pentachlorophenol	2.66	J	4.95	ug/kg wet	3.96		67.3	50-150		
Phenanthrene	1.91	J	2.48	ug/kg wet	1.98		96.4			
Phenol, Total	4.07	J	4.95	ug/kg wet	3.96		103			
Pyrene	1.51	J	2.48	ug/kg wet	1.98		76.3			
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Surrogate: 2-Fluorobiphenyl-surr			14.7	ug/kg wet	19.8		74.4	60-140		
Surrogate: 2-Fluorophenol-surr			31.6	ug/kg wet	39.6		79.7	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			32.7	ug/kg wet	39.6		82.5	60-140		
Surrogate: Nitrobenzene-d5-surr			16.8	ug/kg wet	19.8		85.0	60-140		
Surrogate: Phenol-d5-surr			35.8	ug/kg wet	39.6		90.3	60-140		
Surrogate: p-Terphenyl-d14-surr			14.6	ug/kg wet	19.8		73.9	60-140		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGI0719 - SW-3570 (Continued)										
Matrix Spike (BGI0719-MS1)			Source: 23H3257-16RE1			Prepared & Analyzed: 9/6/2023				
1,2,4-Trichlorobenzene	19.6		4.02	ug/kg dry	32.2	<4.02	61.0	60-140		
1,2-Dichlorobenzene (o-Dichlorobenzene)	20.4		4.02	ug/kg dry	32.2	<4.02	63.5	60-140		
1,3-Dichlorobenzene (m-Dichlorobenzene)	18.3	J1	4.02	ug/kg dry	32.2	<4.02	56.9	60-140		
1,4-Dichlorobenzene (p-Dichlorobenzene)	20.2		4.02	ug/kg dry	32.2	<4.02	62.9	60-140		
2,4-Dichlorophenol	51.9		8.05	ug/kg dry	64.4	<8.05	80.7	60-140		
2,4-Dimethylphenol	63.4		8.05	ug/kg dry	64.4	<8.05	98.5	60-140		
2,4-Dinitrophenol	<8.05	J1, U	8.05	ug/kg dry	161	<8.05		10-51.3		
Acenaphthene	19.8		4.02	ug/kg dry	32.2	<4.02	61.4	60-140		
Acenaphthylene	29.4		4.02	ug/kg dry	32.2	<4.02	91.5	60-140		
Anthracene	20.5		4.02	ug/kg dry	32.2	<4.02	63.7	60-140		
Benzo(a)anthracene	21.3		4.02	ug/kg dry	32.2	<4.02	66.3	60-140		
Benzo(a)pyrene	17.7	J1	4.02	ug/kg dry	32.2	<4.02	54.9	60-140		
Benzo(g,h,i)perylene	20.5		4.02	ug/kg dry	32.2	<4.02	63.5	60-140		
Chrysene	13.6	J1	4.02	ug/kg dry	32.2	<4.02	42.3	60-140		
Dibenzo(a,h)anthracene	18.5	J1	4.02	ug/kg dry	32.2	<4.02	57.4	60-140		
Diethyl phthalate	22.9		4.02	ug/kg dry	32.2	<4.02	71.2	60-140		
Fluoranthene	18.5	J1	4.02	ug/kg dry	32.2	<4.02	57.4	60-140		
Fluorene	19.7		4.02	ug/kg dry	32.2	<4.02	61.1	60-140		
Hexachlorobenzene	15.5	J1	4.02	ug/kg dry	32.2	<4.02	48.1	60-140		
Indeno(1,2,3-cd) pyrene	19.9		4.02	ug/kg dry	32.2	<4.02	61.9	60-140		
Naphthalene	22.4		4.02	ug/kg dry	32.2	<4.02	69.6	60-140		
Pentachlorophenol	41.2		8.05	ug/kg dry	64.4	<8.05	64.1	60-140		
Phenanthrene	19.5		4.02	ug/kg dry	32.2	<4.02	60.6	60-140		
Phenol, Total	54.8		8.05	ug/kg dry	64.4	<8.05	85.1	60-140		
Pyrene	16.1	J1	4.02	ug/kg dry	32.2	<4.02	50.0	60-140		
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Surrogate: 2-Fluorobiphenyl-surr			20.9	ug/kg dry	32.2		65.0	60-140		
Surrogate: 2-Fluorophenol-surr			52.3	ug/kg dry	64.4		81.2	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			50.6	ug/kg dry	64.4		78.7	60-140		
Surrogate: Nitrobenzene-d5-surr			22.2	ug/kg dry	32.2		68.8	60-140		
Surrogate: Phenol-d5-surr			61.7	ug/kg dry	64.4		95.8	60-140		
Surrogate: p-Terphenyl-d14-surr		S	16.8	ug/kg dry	32.2		52.2	60-140		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGI0719 - SW-3570 (Continued)										
Matrix Spike Dup (BGI0719-MSD1)			Source: 23H3257-16RE1			Prepared: 9/6/2023 Analyzed: 9/7/2023				
1,2,4-Trichlorobenzene	19.1		3.98	ug/kg dry	31.8	<3.98	60.0	60-140	2.65	40
1,2-Dichlorobenzene (o-Dichlorobenzene)	19.6		3.98	ug/kg dry	31.8	<3.98	61.4	60-140	4.37	40
1,3-Dichlorobenzene (m-Dichlorobenzene)	18.6	J1	3.98	ug/kg dry	31.8	<3.98	58.5	60-140	1.66	40
1,4-Dichlorobenzene (p-Dichlorobenzene)	19.7		3.98	ug/kg dry	31.8	<3.98	61.8	60-140	2.77	40
2,4-Dichlorophenol	51.9		7.96	ug/kg dry	63.7	<7.96	81.4	60-140	0.149	40
2,4-Dimethylphenol	60.1		7.96	ug/kg dry	63.7	<7.96	94.3	60-140	5.44	40
2,4-Dinitrophenol	<7.96	J1, U	7.96	ug/kg dry	159	<7.96		10-51.3		40
Acenaphthene	19.9		3.98	ug/kg dry	31.8	<3.98	62.6	60-140	0.846	40
Acenaphthylene	27.4		3.98	ug/kg dry	31.8	<3.98	85.9	60-140	7.32	40
Anthracene	21.5		3.98	ug/kg dry	31.8	<3.98	67.4	60-140	4.64	40
Benzo(a)anthracene	22.3		3.98	ug/kg dry	31.8	<3.98	70.1	60-140	4.56	40
Benzo(a)pyrene	19.6		3.98	ug/kg dry	31.8	<3.98	61.5	60-140	10.3	40
Benzo(g,h,i)perylene	22.5		3.98	ug/kg dry	31.8	<3.98	70.6	60-140	9.43	40
Chrysene	15.4	J1	3.98	ug/kg dry	31.8	<3.98	48.5	60-140	12.6	40
Dibenzo(a,h)anthracene	19.9		3.98	ug/kg dry	31.8	<3.98	62.5	60-140	7.50	40
Diethyl phthalate	22.0		3.98	ug/kg dry	31.8	<3.98	69.1	60-140	3.96	40
Fluoranthene	19.3		3.98	ug/kg dry	31.8	<3.98	60.5	60-140	4.36	40
Fluorene	19.9		3.98	ug/kg dry	31.8	<3.98	62.4	60-140	0.997	40
Hexachlorobenzene	17.0	J1	3.98	ug/kg dry	31.8	<3.98	53.4	60-140	9.55	40
Indeno(1,2,3-cd) pyrene	21.8		3.98	ug/kg dry	31.8	<3.98	68.5	60-140	9.07	40
Naphthalene	22.2		3.98	ug/kg dry	31.8	<3.98	69.7	60-140	0.900	40
Pentachlorophenol	41.6		7.96	ug/kg dry	63.7	<7.96	65.3	60-140	0.896	40
Phenanthrene	20.6		3.98	ug/kg dry	31.8	<3.98	64.7	60-140	5.40	40
Phenol, Total	56.3		7.96	ug/kg dry	63.7	<7.96	88.3	60-140	2.71	40
Pyrene	17.1	J1	3.98	ug/kg dry	31.8	<3.98	53.7	60-140	6.09	40
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Surrogate: 2-Fluorobiphenyl-surr			19.3	ug/kg dry	31.8		60.6	60-140		
Surrogate: 2-Fluorophenol-surr			51.2	ug/kg dry	63.7		80.4	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			49.2	ug/kg dry	63.7		77.3	60-140		
Surrogate: Nitrobenzene-d5-surr			21.2	ug/kg dry	31.8		66.4	60-140		
Surrogate: Phenol-d5-surr			60.6	ug/kg dry	63.7		95.1	60-140		
Surrogate: p-Terphenyl-d14-surr		S	17.7	ug/kg dry	31.8		55.5	60-140		



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Quality Control
(Continued)

Organics by GC

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH3565 - SW-3570

Blank (BGH3565-BLK1)

Prepared: 8/21/2023 Analyzed: 8/29/2023

4,4'-DDD	<1.00	U	1.00	ug/kg wet						
4,4'-DDE	<1.00	U	1.00	ug/kg wet						
4,4'-DDT	<1.00	U	1.00	ug/kg wet						
Aldrin	<1.00	U	1.00	ug/kg wet						
alpha-BHC	<1.00	U	1.00	ug/kg wet						
(alpha-Hexachlorocyclohexane)										
beta-BHC	<1.00	U	1.00	ug/kg wet						
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	<1.00	U	1.00	ug/kg wet						
cis-Chlordane (alpha-Chlordane)	<1.00	U	1.00	ug/kg wet						
delta-BHC	<1.00	U	1.00	ug/kg wet						
Dieldrin	<1.00	U	1.00	ug/kg wet						
Endosulfan I	<1.00	U	1.00	ug/kg wet						
Endosulfan II	<1.00	U	1.00	ug/kg wet						
Endosulfan sulfate	<1.00	U	1.00	ug/kg wet						
Endrin	<1.00	U	1.00	ug/kg wet						
Endrin aldehyde	<1.00	U	1.00	ug/kg wet						
Endrin ketone	<1.00	U	1.00	ug/kg wet						
gamma-BHC (Lindane,	<1.00	U	1.00	ug/kg wet						
gamma-HexachlorocyclohexanE)										
gamma-Chlordane	<1.00	U	1.00	ug/kg wet						
Heptachlor	<1.00	U	1.00	ug/kg wet						
Heptachlor epoxide	<1.00	U	1.00	ug/kg wet						
Toxaphene (Chlorinated Camphene)	<15.0	U	15.0	ug/kg wet						
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Surrogate: 2,4,5,6			4.81	ug/kg wet	6.00		80.1	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			6.81	ug/kg wet	6.00		114	60-140		

LCS TOX (BGH3565-BS1)

Prepared: 8/21/2023 Analyzed: 8/29/2023

Toxaphene (Chlorinated Camphene)	83.9		15.0	ug/kg wet	60.0		140	60-140		
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Surrogate: 2,4,5,6			6.72	ug/kg wet	6.00		112	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			8.22	ug/kg wet	6.00		137	60-140		

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Quality Control
(Continued)

Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH3565 - SW-3570 (Continued)

LC5 (BGH3565-BS2)

Prepared: 8/21/2023 Analyzed: 8/29/2023

4,4'-DDD	5.69		1.00	ug/kg wet	6.00		94.9	60-140		
4,4'-DDE	5.32		1.00	ug/kg wet	6.00		88.8	60-140		
4,4'-DDT	5.31		1.00	ug/kg wet	6.00		88.5	60-140		
Aldrin	5.01		1.00	ug/kg wet	6.00		83.4	60-140		
alpha-BHC	5.47		1.00	ug/kg wet	6.00		91.1	60-140		
(alpha-Hexachlorocyclohexane)										
beta-BHC	5.65		1.00	ug/kg wet	6.00		94.1	60-140		
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	20.4		1.00	ug/kg wet	24.0		85.2	60-140		
cis-Chlordane (alpha-Chlordane)	5.13		1.00	ug/kg wet	6.00		85.5	60-140		
delta-BHC	5.47		1.00	ug/kg wet	6.00		91.2	60-140		
Dieldrin	5.51		1.00	ug/kg wet	6.00		91.8	60-140		
Endosulfan I	5.29		1.00	ug/kg wet	6.00		88.2	60-140		
Endosulfan II	5.30		1.00	ug/kg wet	6.00		88.3	60-140		
Endosulfan sulfate	5.20		1.00	ug/kg wet	6.00		86.7	60-140		
Endrin	5.13		1.00	ug/kg wet	6.00		85.6	60-140		
Endrin aldehyde	5.19		1.00	ug/kg wet	6.00		86.6	60-140		
Endrin ketone	5.25		1.00	ug/kg wet	6.00		87.4	60-140		
gamma-BHC (Lindane,	5.58		1.00	ug/kg wet	6.00		93.0	60-140		
gamma-HexachlorocyclohexanE)										
gamma-Chlordane	5.17		1.00	ug/kg wet	6.00		86.1	60-140		
Heptachlor	4.87		1.00	ug/kg wet	6.00		81.2	60-140		
Heptachlor epoxide	5.32		1.00	ug/kg wet	6.00		88.7	60-140		
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Surrogate: 2,4,5,6			4.98	ug/kg wet	6.00		83.0	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			6.70	ug/kg wet	6.00		112	60-140		

LCSD TOX (BGH3565-BS1)

Prepared: 8/21/2023 Analyzed: 8/29/2023

Toxaphene (Chlorinated Camphene)	92.7	J1	15.0	ug/kg wet	60.0		155	60-140	9.95	40
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Surrogate: 2,4,5,6			7.85	ug/kg wet	6.00		131	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	8.83	ug/kg wet	6.00		147	60-140		

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Quality Control
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Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH3565 - SW-3570 (Continued)

LCS Dup (BGH3565-BSD2)		Prepared: 8/21/2023 Analyzed: 8/29/2023								
4,4'-DDD	5.10		1.00	ug/kg wet	6.00		85.0	60-140	11.0	40
4,4'-DDE	5.08		1.00	ug/kg wet	6.00		84.6	60-140	4.79	40
4,4'-DDT	5.03		1.00	ug/kg wet	6.00		83.9	60-140	5.38	40
Aldrin	4.90		1.00	ug/kg wet	6.00		81.7	60-140	2.04	40
alpha-BHC	5.54		1.00	ug/kg wet	6.00		92.4	60-140	1.37	40
(alpha-Hexachlorocyclohexane)										
beta-BHC	5.42		1.00	ug/kg wet	6.00		90.3	60-140	4.11	40
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	19.9		1.00	ug/kg wet	24.0		82.8	60-140	2.78	40
cis-Chlordane (alpha-Chlordane)	4.92		1.00	ug/kg wet	6.00		82.0	60-140	4.19	40
delta-BHC	5.31		1.00	ug/kg wet	6.00		88.6	60-140	2.95	40
Dieldrin	5.16		1.00	ug/kg wet	6.00		86.1	60-140	6.40	40
Endosulfan I	4.97		1.00	ug/kg wet	6.00		82.8	60-140	6.33	40
Endosulfan II	4.95		1.00	ug/kg wet	6.00		82.5	60-140	6.80	40
Endosulfan sulfate	5.15		1.00	ug/kg wet	6.00		85.8	60-140	1.12	40
Endrin	4.91		1.00	ug/kg wet	6.00		81.8	60-140	4.54	40
Endrin aldehyde	5.02		1.00	ug/kg wet	6.00		83.6	60-140	3.45	40
Endrin ketone	5.19		1.00	ug/kg wet	6.00		86.6	60-140	0.994	40
gamma-BHC (Lindane,	5.39		1.00	ug/kg wet	6.00		89.9	60-140	3.42	40
gamma-HexachlorocyclohexanE)										
gamma-Chlordane	4.86		1.00	ug/kg wet	6.00		81.0	60-140	6.21	40
Heptachlor	5.19		1.00	ug/kg wet	6.00		86.4	60-140	6.23	40
Heptachlor epoxide	4.92		1.00	ug/kg wet	6.00		81.9	60-140	7.95	40
<i>Surrogate: 2,4,5,6</i>			<i>5.18</i>	<i>ug/kg wet</i>	<i>6.00</i>		<i>86.3</i>	<i>60-140</i>		
<i>Tetrachloro-m-xylene-surr</i>										
<i>Surrogate: Decachlorobiphenyl-surr</i>			<i>6.79</i>	<i>ug/kg wet</i>	<i>6.00</i>		<i>113</i>	<i>60-140</i>		

MRL TOX (BGH3565-MRL1)		Prepared: 8/21/2023 Analyzed: 8/29/2023								
Toxaphene (Chlorinated Camphene)	25.0	J1	15.0	ug/kg wet	15.0		167	50-150		
<i>Surrogate: 2,4,5,6</i>			<i>S</i>	<i>8.91</i>	<i>ug/kg wet</i>	<i>6.00</i>	<i>149</i>	<i>60-140</i>		
<i>Tetrachloro-m-xylene-surr</i>										
<i>Surrogate: Decachlorobiphenyl-surr</i>			<i>S</i>	<i>10.6</i>	<i>ug/kg wet</i>	<i>6.00</i>	<i>177</i>	<i>60-140</i>		

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Quality Control
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Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH3565 - SW-3570 (Continued)

MRL Check (BGH3565-MRL2)

Prepared: 8/21/2023 Analyzed: 8/29/2023

4,4'-DDD	0.326	J	1.00	ug/kg wet	0.400		81.5			
4,4'-DDE	0.311	J	1.00	ug/kg wet	0.400		77.8			
4,4'-DDT	0.319	J	1.00	ug/kg wet	0.400		79.6			
Aldrin	0.282	J	1.00	ug/kg wet	0.400		70.5			
alpha-BHC	0.343	J	1.00	ug/kg wet	0.400		85.6			
(alpha-Hexachlorocyclohexane)										
beta-BHC	0.352	J	1.00	ug/kg wet	0.400		87.9			
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	1.25		1.00	ug/kg wet	1.60		78.3	50-150		
cis-Chlordane (alpha-Chlordane)	0.297	J	1.00	ug/kg wet	0.400		74.2			
delta-BHC	0.202	J	1.00	ug/kg wet	0.400		50.6			
Dieldrin	0.330	J	1.00	ug/kg wet	0.400		82.5			
Endosulfan I	0.318	J	1.00	ug/kg wet	0.400		79.4			
Endosulfan II	0.301	J	1.00	ug/kg wet	0.400		75.2			
Endosulfan sulfate	0.312	J	1.00	ug/kg wet	0.400		78.1			
Endrin	0.298	J	1.00	ug/kg wet	0.400		74.6			
Endrin aldehyde	0.320	J	1.00	ug/kg wet	0.400		80.0			
Endrin ketone	0.329	J	1.00	ug/kg wet	0.400		82.2			
gamma-BHC (Lindane,	0.310	J	1.00	ug/kg wet	0.400		77.4			
gamma-HexachlorocyclohexaneE)										
gamma-Chlordane	0.290	J	1.00	ug/kg wet	0.400		72.6			
Heptachlor	0.357	J	1.00	ug/kg wet	0.400		89.3			
Heptachlor epoxide	0.309	J	1.00	ug/kg wet	0.400		77.2			
<i>Surrogate: 2,4,5,6</i>			<i>4.94</i>	<i>ug/kg wet</i>	<i>6.00</i>		<i>82.3</i>	<i>60-140</i>		
<i>Tetrachloro-m-xylene-surr</i>										
<i>Surrogate: Decachlorobiphenyl-surr</i>			<i>6.64</i>	<i>ug/kg wet</i>	<i>6.00</i>		<i>111</i>	<i>60-140</i>		

Matrix Spike (BGH3565-MS1)

Source: 23H3257-16

Prepared: 8/21/2023 Analyzed: 8/29/2023

4,4'-DDD	8.90		1.68	ug/kg dry	10.1	<1.68	88.4	60-140		
4,4'-DDE	9.04		1.68	ug/kg dry	10.1	<1.68	89.8	60-140		
4,4'-DDT	8.35		1.68	ug/kg dry	10.1	<1.68	83.0	60-140		
Aldrin	7.19		1.68	ug/kg dry	10.1	<1.68	71.4	60-140		
alpha-BHC	8.14		1.68	ug/kg dry	10.1	<1.68	80.8	60-140		
(alpha-Hexachlorocyclohexane)										
beta-BHC	8.59		1.68	ug/kg dry	10.1	<1.68	85.3	60-140		
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	30.1		1.68	ug/kg dry	40.3	<1.68	74.8	60-140		
cis-Chlordane (alpha-Chlordane)	7.96		1.68	ug/kg dry	10.1	<1.68	79.1	60-140		
delta-BHC	9.13		1.68	ug/kg dry	10.1	<1.68	90.7	60-140		
Dieldrin	8.64		1.68	ug/kg dry	10.1	<1.68	85.8	60-140		
Endosulfan I	7.98		1.68	ug/kg dry	10.1	<1.68	79.3	60-140		
Endosulfan II	8.14		1.68	ug/kg dry	10.1	<1.68	80.8	60-140		
Endosulfan sulfate	8.34		1.68	ug/kg dry	10.1	<1.68	82.9	60-140		
Endrin	7.74		1.68	ug/kg dry	10.1	<1.68	76.8	60-140		
Endrin aldehyde	7.80		1.68	ug/kg dry	10.1	<1.68	77.5	60-140		
Endrin ketone	8.33		1.68	ug/kg dry	10.1	<1.68	82.7	60-140		

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Quality Control
(Continued)

Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH3565 - SW-3570 (Continued)										
Matrix Spike (BGH3565-MS1)			Source: 23H3257-16		Prepared: 8/21/2023 Analyzed: 8/29/2023					
gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	7.96		1.68	ug/kg dry	10.1	<1.68	79.0	60-140		
gamma-Chlordane	8.09		1.68	ug/kg dry	10.1	<1.68	80.4	60-140		
Heptachlor	5.95	J1	1.68	ug/kg dry	10.1	<1.68	59.1	60-140		
Heptachlor epoxide	8.14		1.68	ug/kg dry	10.1	<1.68	80.8	60-140		

Surrogate: 2,4,5,6			8.88	ug/kg dry	10.1		88.2	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			12.1	ug/kg dry	10.1		120	60-140		

Matrix Spike Dup (BGH3565-MSD1)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Source: 23H3257-16 Prepared: 8/21/2023 Analyzed: 8/29/2023										
4,4'-DDD	9.19		1.68	ug/kg dry	10.1	<1.68	91.2	60-140	3.16	40
4,4'-DDE	8.99		1.68	ug/kg dry	10.1	<1.68	89.3	60-140	0.558	40
4,4'-DDT	8.58		1.68	ug/kg dry	10.1	<1.68	85.2	60-140	2.68	40
Aldrin	7.03		1.68	ug/kg dry	10.1	<1.68	69.8	60-140	2.27	40
alpha-BHC (alpha-Hexachlorocyclohexane)	8.14		1.68	ug/kg dry	10.1	<1.68	80.8	60-140	0.0309	40
beta-BHC (beta-Hexachlorocyclohexane)	8.66		1.68	ug/kg dry	10.1	<1.68	86.0	60-140	0.823	40
Chlordane (Total)	29.8		1.68	ug/kg dry	40.3	<1.68	74.0	60-140	1.14	40
cis-Chlordane (alpha-Chlordane)	7.83		1.68	ug/kg dry	10.1	<1.68	77.8	60-140	1.64	40
delta-BHC	9.32		1.68	ug/kg dry	10.1	<1.68	92.5	60-140	1.98	40
Dieldrin	8.45		1.68	ug/kg dry	10.1	<1.68	83.9	60-140	2.22	40
Endosulfan I	7.86		1.68	ug/kg dry	10.1	<1.68	78.0	60-140	1.53	40
Endosulfan II	8.24		1.68	ug/kg dry	10.1	<1.68	81.8	60-140	1.17	40
Endosulfan sulfate	8.36		1.68	ug/kg dry	10.1	<1.68	83.1	60-140	0.235	40
Endrin	8.19		1.68	ug/kg dry	10.1	<1.68	81.3	60-140	5.68	40
Endrin aldehyde	8.22		1.68	ug/kg dry	10.1	<1.68	81.7	60-140	5.24	40
Endrin ketone	8.37		1.68	ug/kg dry	10.1	<1.68	83.1	60-140	0.458	40
gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	8.16		1.68	ug/kg dry	10.1	<1.68	81.0	60-140	2.51	40
gamma-Chlordane	7.94		1.68	ug/kg dry	10.1	<1.68	78.8	60-140	1.95	40
Heptachlor	6.19		1.68	ug/kg dry	10.1	<1.68	61.5	60-140	3.96	40
Heptachlor epoxide	7.84		1.68	ug/kg dry	10.1	<1.68	77.9	60-140	3.71	40

Surrogate: 2,4,5,6			9.56	ug/kg dry	10.1		94.9	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			11.7	ug/kg dry	10.1		116	60-140		

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Quality Control
(Continued)

Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH3795 - SW-3511

Blank (BGH3795-BLK1)

Prepared: 8/22/2023 Analyzed: 8/24/2023

4,4'-DDD	<0.00600	U	0.00600	ug/L						
4,4'-DDE	<0.00600	U	0.00600	ug/L						
4,4'-DDT	<0.00600	U	0.00600	ug/L						
Aldrin	<0.00600	U	0.00600	ug/L						
alpha-BHC	<0.00600	U	0.00600	ug/L						
(alpha-Hexachlorocyclohexane)										
beta-BHC	<0.00600	U	0.00600	ug/L						
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	<0.00600	U	0.00600	ug/L						
cis-Chlordane (alpha-Chlordane)	<0.00600	U	0.00600	ug/L						
delta-BHC	<0.00600	U	0.00600	ug/L						
Dieldrin	<0.00600	U	0.00600	ug/L						
Endosulfan I	<0.00600	U	0.00600	ug/L						
Endosulfan II	<0.00600	U	0.00600	ug/L						
Endosulfan sulfate	<0.00600	U	0.00600	ug/L						
Endrin	<0.00600	U	0.00600	ug/L						
Endrin aldehyde	<0.00600	U	0.00600	ug/L						
Endrin ketone	<0.00600	U	0.00600	ug/L						
gamma-BHC (Lindane,	<0.00600	U	0.00600	ug/L						
gamma-HexachlorocyclohexanE)										
gamma-Chlordane	<0.00600	U	0.00600	ug/L						
Heptachlor	<0.00600	U	0.00600	ug/L						
Heptachlor epoxide	<0.00600	U	0.00600	ug/L						
Toxaphene (Chlorinated Camphene)	<0.300	U	0.300	ug/L						
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Surrogate: 2,4,5,6			0.131	ug/L	0.120		109	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.129	ug/L	0.120		108	60-140		
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LCS TOX (BGH3795-BS1)

Prepared: 8/22/2023 Analyzed: 8/24/2023

Toxaphene (Chlorinated Camphene)	1.43		0.300	ug/L	1.20		119	60-140		
<hr/>										
Surrogate: 2,4,5,6			0.122	ug/L	0.120		101	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.128	ug/L	0.120		107	60-140		
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Quality Control
(Continued)

Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH3795 - SW-3511 (Continued)

LCS (BGH3795-BS2)

Prepared: 8/22/2023 Analyzed: 8/25/2023

4,4'-DDD	0.127		0.00600	ug/L	0.120		106	60-140		
4,4'-DDE	0.113		0.00600	ug/L	0.120		94.5	60-140		
4,4'-DDT	0.132		0.00600	ug/L	0.120		110	60-140		
Aldrin	0.116		0.00600	ug/L	0.120		96.4	60-140		
alpha-BHC	0.143		0.00600	ug/L	0.120		119	60-140		
(alpha-Hexachlorocyclohexane)										
beta-BHC	0.140		0.00600	ug/L	0.120		116	60-140		
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	0.492		0.00600	ug/L	0.480		103	60-140		
cis-Chlordane (alpha-Chlordane)	0.119		0.00600	ug/L	0.120		99.2	60-140		
delta-BHC	0.134		0.00600	ug/L	0.120		111	60-140		
Dieldrin	0.121		0.00600	ug/L	0.120		101	60-140		
Endosulfan I	0.119		0.00600	ug/L	0.120		99.4	60-140		
Endosulfan II	0.119		0.00600	ug/L	0.120		99.0	60-140		
Endosulfan sulfate	0.131		0.00600	ug/L	0.120		109	60-140		
Endrin	0.125		0.00600	ug/L	0.120		104	60-140		
Endrin aldehyde	0.133		0.00600	ug/L	0.120		111	60-140		
Endrin ketone	0.132		0.00600	ug/L	0.120		110	60-140		
gamma-BHC (Lindane,	0.132		0.00600	ug/L	0.120		110	60-140		
gamma-HexachlorocyclohexanE)										
gamma-Chlordane	0.113		0.00600	ug/L	0.120		94.1	60-140		
Heptachlor	0.141		0.00600	ug/L	0.120		118	60-140		
Heptachlor epoxide	0.119		0.00600	ug/L	0.120		99.2	60-140		
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Surrogate: 2,4,5,6			0.133	ug/L	0.120		111	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.130	ug/L	0.120		109	60-140		

LCSD TOX (BGH3795-BS1)

Prepared: 8/22/2023 Analyzed: 8/25/2023

Toxaphene (Chlorinated Camphene)	1.36		0.300	ug/L	1.20		114	60-140	5.10	40
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Surrogate: 2,4,5,6			0.121	ug/L	0.120		101	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.126	ug/L	0.120		105	60-140		

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Quality Control
(Continued)

Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH3795 - SW-3511 (Continued)										
LCS Dup (BGH3795-BSD2)										
					Prepared: 8/22/2023 Analyzed: 8/25/2023					
4,4'-DDD	0.128		0.00600	ug/L	0.120		107	60-140	0.564	40
4,4'-DDE	0.121		0.00600	ug/L	0.120		101	60-140	6.57	40
4,4'-DDT	0.131		0.00600	ug/L	0.120		109	60-140	0.932	40
Aldrin	0.118		0.00600	ug/L	0.120		98.0	60-140	1.62	40
alpha-BHC	0.154		0.00600	ug/L	0.120		128	60-140	7.66	40
(alpha-Hexachlorocyclohexane)										
beta-BHC	0.142		0.00600	ug/L	0.120		118	60-140	1.44	40
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	0.507		0.00600	ug/L	0.480		106	60-140	2.84	40
cis-Chlordane (alpha-Chlordane)	0.122		0.00600	ug/L	0.120		102	60-140	2.60	40
delta-BHC	0.133		0.00600	ug/L	0.120		111	60-140	0.324	40
Dieldrin	0.128		0.00600	ug/L	0.120		107	60-140	5.22	40
Endosulfan I	0.127		0.00600	ug/L	0.120		106	60-140	6.16	40
Endosulfan II	0.124		0.00600	ug/L	0.120		103	60-140	4.14	40
Endosulfan sulfate	0.135		0.00600	ug/L	0.120		113	60-140	3.19	40
Endrin	0.128		0.00600	ug/L	0.120		107	60-140	2.54	40
Endrin aldehyde	0.143		0.00600	ug/L	0.120		119	60-140	6.76	40
Endrin ketone	0.135		0.00600	ug/L	0.120		113	60-140	2.70	40
gamma-BHC (Lindane,	0.135		0.00600	ug/L	0.120		112	60-140	1.90	40
gamma-HexachlorocyclohexanE)										
gamma-Chlordane	0.120		0.00600	ug/L	0.120		99.7	60-140	5.80	40
Heptachlor	0.140		0.00600	ug/L	0.120		117	60-140	0.634	40
Heptachlor epoxide	0.124		0.00600	ug/L	0.120		104	60-140	4.30	40
<i>Surrogate: 2,4,5,6</i>			<i>0.141</i>	<i>ug/L</i>	<i>0.120</i>		<i>117</i>	<i>60-140</i>		
<i>Tetrachloro-m-xylene-surr</i>										
<i>Surrogate: Decachlorobiphenyl-surr</i>			<i>0.126</i>	<i>ug/L</i>	<i>0.120</i>		<i>105</i>	<i>60-140</i>		

MRL TOX (BGH3795-MRL1)

					Prepared: 8/22/2023 Analyzed: 8/24/2023					
Toxaphene (Chlorinated Camphene)	0.310		0.300	ug/L	0.300		103	50-150		
<i>Surrogate: 2,4,5,6</i>			<i>0.117</i>	<i>ug/L</i>	<i>0.120</i>		<i>97.4</i>	<i>60-140</i>		
<i>Tetrachloro-m-xylene-surr</i>										
<i>Surrogate: Decachlorobiphenyl-surr</i>			<i>0.115</i>	<i>ug/L</i>	<i>0.120</i>		<i>95.7</i>	<i>60-140</i>		

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Quality Control
(Continued)

Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH3795 - SW-3511 (Continued)

MRL Check (BGH3795-MRL2)

Prepared: 8/22/2023 Analyzed: 8/25/2023

4,4'-DDD	0.0107		0.00600	ug/L	0.0120		88.9	50-150		
4,4'-DDE	0.0114		0.00600	ug/L	0.0120		95.4	50-150		
4,4'-DDT	0.0119		0.00600	ug/L	0.0120		99.0	50-150		
Aldrin	0.0105		0.00600	ug/L	0.0120		87.4	50-150		
alpha-BHC	0.0156		0.00600	ug/L	0.0120		130	50-150		
(alpha-Hexachlorocyclohexane)										
beta-BHC	0.0116		0.00600	ug/L	0.0120		96.9	50-150		
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	0.0468		0.00600	ug/L	0.0480		97.5	50-150		
cis-Chlordane (alpha-Chlordane)	0.0111		0.00600	ug/L	0.0120		92.8	50-150		
delta-BHC	<0.00600	J1, U	0.00600	ug/L	0.0120			50-150		
Dieldrin	0.0110		0.00600	ug/L	0.0120		91.2	50-150		
Endosulfan I	0.0115		0.00600	ug/L	0.0120		96.0	50-150		
Endosulfan II	0.0104		0.00600	ug/L	0.0120		87.0	50-150		
Endosulfan sulfate	0.0116		0.00600	ug/L	0.0120		97.0	50-150		
Endrin	0.0137		0.00600	ug/L	0.0120		114	50-150		
Endrin aldehyde	0.0116		0.00600	ug/L	0.0120		96.7	50-150		
Endrin ketone	0.0135		0.00600	ug/L	0.0120		112	50-150		
gamma-BHC (Lindane,	0.0120		0.00600	ug/L	0.0120		100	50-150		
gamma-HexachlorocyclohexaneE)										
gamma-Chlordane	0.0102		0.00600	ug/L	0.0120		84.7	50-150		
Heptachlor	0.0145		0.00600	ug/L	0.0120		120	50-150		
Heptachlor epoxide	0.0110		0.00600	ug/L	0.0120		92.0	50-150		
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Surrogate: 2,4,5,6			0.132	ug/L	0.120		110	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.125	ug/L	0.120		104	60-140		

Matrix Spike (BGH3795-MS1)

Source: 23H3257-15

Prepared: 8/22/2023 Analyzed: 8/25/2023

4,4'-DDD	0.158		0.00600	ug/L	0.120	<0.00600	132	60-140		
4,4'-DDE	0.129		0.00600	ug/L	0.120	<0.00600	108	60-140		
4,4'-DDT	0.150		0.00600	ug/L	0.120	<0.00600	125	60-140		
Aldrin	0.143		0.00600	ug/L	0.120	<0.00600	119	60-140		
alpha-BHC	0.202	J1	0.00600	ug/L	0.120	<0.00600	168	60-140		
(alpha-Hexachlorocyclohexane)										
beta-BHC	0.179	J1	0.00600	ug/L	0.120	<0.00600	149	60-140		
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	0.656		0.00600	ug/L	0.480	<0.00600	137	60-140		
cis-Chlordane (alpha-Chlordane)	0.156		0.00600	ug/L	0.120	<0.00600	130	60-140		
delta-BHC	0.192	J1	0.00600	ug/L	0.120	<0.00600	160	60-140		
Dieldrin	0.180	J1	0.00600	ug/L	0.120	<0.00600	150	60-140		
Endosulfan I	0.169	J1	0.00600	ug/L	0.120	<0.00600	141	60-140		
Endosulfan II	0.172	J1	0.00600	ug/L	0.120	<0.00600	143	60-140		
Endosulfan sulfate	0.182	J1	0.00600	ug/L	0.120	<0.00600	151	60-140		
Endrin	0.179	J1	0.00600	ug/L	0.120	<0.00600	149	60-140		
Endrin aldehyde	0.190	J1	0.00600	ug/L	0.120	<0.00600	158	60-140		
Endrin ketone	0.195	J1	0.00600	ug/L	0.120	<0.00600	162	60-140		

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Quality Control
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Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH3795 - SW-3511 (Continued)										
Matrix Spike (BGH3795-MS1)			Source: 23H3257-15		Prepared: 8/22/2023 Analyzed: 8/25/2023					
gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	0.179	J1	0.00600	ug/L	0.120	<0.00600	149	60-140		
gamma-Chlordane	0.157		0.00600	ug/L	0.120	0.0129	120	60-140		
Heptachlor	0.171	J1	0.00600	ug/L	0.120	<0.00600	143	60-140		
Heptachlor epoxide	0.173	J1	0.00600	ug/L	0.120	<0.00600	144	60-140		

Surrogate: 2,4,5,6		S	0.171	ug/L	0.120		142	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.137	ug/L	0.120		114	60-140		

Matrix Spike Dup (BGH3795-MSD1)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Source: 23H3257-15 Prepared: 8/22/2023 Analyzed: 8/25/2023										
4,4'-DDD	0.162		0.00600	ug/L	0.120	<0.00600	135	60-140	2.48	40
4,4'-DDE	0.126		0.00600	ug/L	0.120	<0.00600	105	60-140	2.66	40
4,4'-DDT	0.151		0.00600	ug/L	0.120	<0.00600	126	60-140	0.578	40
Aldrin	0.141		0.00600	ug/L	0.120	<0.00600	117	60-140	1.47	40
alpha-BHC (alpha-Hexachlorocyclohexane)	0.204	J1	0.00600	ug/L	0.120	<0.00600	170	60-140	1.03	40
beta-BHC (beta-Hexachlorocyclohexane)	0.190	J1	0.00600	ug/L	0.120	<0.00600	158	60-140	5.60	40
Chlordane (Total)	0.651		0.00600	ug/L	0.480	<0.00600	136	60-140	0.818	40
cis-Chlordane (alpha-Chlordane)	0.151		0.00600	ug/L	0.120	<0.00600	126	60-140	2.85	40
delta-BHC	0.204	J1	0.00600	ug/L	0.120	<0.00600	170	60-140	6.09	40
Dieldrin	0.182	J1	0.00600	ug/L	0.120	<0.00600	152	60-140	1.34	40
Endosulfan I	0.167		0.00600	ug/L	0.120	<0.00600	139	60-140	1.23	40
Endosulfan II	0.171	J1	0.00600	ug/L	0.120	<0.00600	143	60-140	0.444	40
Endosulfan sulfate	0.207	J1	0.00600	ug/L	0.120	<0.00600	173	60-140	13.1	40
Endrin	0.183	J1	0.00600	ug/L	0.120	<0.00600	153	60-140	2.34	40
Endrin aldehyde	0.201	J1	0.00600	ug/L	0.120	<0.00600	168	60-140	5.86	40
Endrin ketone	0.204	J1	0.00600	ug/L	0.120	<0.00600	170	60-140	4.56	40
gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	0.183	J1	0.00600	ug/L	0.120	<0.00600	153	60-140	2.08	40
gamma-Chlordane	0.150		0.00600	ug/L	0.120	0.0129	114	60-140	4.10	40
Heptachlor	0.178	J1	0.00600	ug/L	0.120	<0.00600	148	60-140	3.94	40
Heptachlor epoxide	0.172	J1	0.00600	ug/L	0.120	<0.00600	143	60-140	0.912	40

Surrogate: 2,4,5,6		S	0.184	ug/L	0.120		153	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.135	ug/L	0.120		112	60-140		

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Project Manager: Sara Flaherty

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Quality Control
(Continued)

Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH4424 - SW-3511										
Blank (BGH4424-BLK1)										
Prepared: 8/25/2023 Analyzed: 8/31/2023										
PCBs, Total	<0.120	U	0.120	ug/L						

Surrogate: 2,4,5,6			0.105	ug/L	0.120		87.4	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.125	ug/L	0.120		104	60-140		

LCS (BGH4424-BS1)										
Prepared: 8/25/2023 Analyzed: 9/1/2023										
Aroclor-1016 (PCB-1016)	1.03		0.120	ug/L	1.20		86.1	60-140		
Aroclor-1260 (PCB-1260)	0.915		0.120	ug/L	1.20		76.3	60-140		
PCBs, Total	0.938		0.120	ug/L	1.20		78.2	60-140		

Surrogate: 2,4,5,6			0.120	ug/L	0.120		100	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.120	ug/L	0.120		100	60-140		

LCS Dup (BGH4424-BSD1)										
Prepared: 8/25/2023 Analyzed: 9/1/2023										
Aroclor-1016 (PCB-1016)	0.962		0.120	ug/L	1.20		80.2	60-140	7.13	40
Aroclor-1260 (PCB-1260)	0.823		0.120	ug/L	1.20		68.6	60-140	10.6	40
PCBs, Total	0.850		0.120	ug/L	1.20		70.8	60-140	9.84	40

Surrogate: 2,4,5,6			0.105	ug/L	0.120		87.5	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.134	ug/L	0.120		112	60-140		

BGH3503-BLK1 (BGH4424-LBK1)										
Prepared: 8/25/2023 Analyzed: 9/1/2023										
Aroclor-1016 (PCB-1016)	<0.120	U	0.120	ug/L						
Aroclor-1221 (PCB-1221)	<0.120	U	0.120	ug/L						
Aroclor-1232 (PCB-1232)	<0.120	U	0.120	ug/L						
Aroclor-1242 (PCB-1242)	<0.120	U	0.120	ug/L						
Aroclor-1248 (PCB-1248)	<0.120	U	0.120	ug/L						
Aroclor-1254 (PCB-1254)	<0.120	U	0.120	ug/L						
Aroclor-1260 (PCB-1260)	<0.120	U	0.120	ug/L						
PCBs, Total	<0.120	U	0.120	ug/L						

Surrogate: 2,4,5,6			0.137	ug/L	0.120		114	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr	S		0.0355	ug/L	0.120		29.6	60-140		

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Quality Control
(Continued)

Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH4424 - SW-3511 (Continued)

MRL Check (BGH4424-MRL1)

Prepared: 8/25/2023 Analyzed: 8/31/2023

Aroclor-1016 (PCB-1016)	0.401	J1	0.120	ug/L	0.240		167	50-150		
Aroclor-1260 (PCB-1260)	0.197		0.120	ug/L	0.240		82.0	50-150		
PCBs, Total	0.237		0.120	ug/L	0.240		98.6	50-150		
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Surrogate: 2,4,5,6			0.105	ug/L	0.120		87.6	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.134	ug/L	0.120		112	60-140		

Matrix Spike (BGH4424-MS1)

Source: 23H3257-14

Prepared: 8/25/2023 Analyzed: 9/1/2023

Aroclor-1016 (PCB-1016)	1.18		0.120	ug/L	1.20	<0.120	98.0	60-140		
Aroclor-1260 (PCB-1260)	0.705	J1	0.120	ug/L	1.20	<0.120	58.7	60-140		
PCBs, Total	0.792		0.120	ug/L	1.20	<0.120	66.0	60-140		
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Surrogate: 2,4,5,6			0.130	ug/L	0.120		108	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.0952	ug/L	0.120		79.4	60-140		

Matrix Spike Dup (BGH4424-MSD1)

Source: 23H3257-14

Prepared: 8/25/2023 Analyzed: 9/1/2023

Aroclor-1016 (PCB-1016)	1.41		0.120	ug/L	1.20	<0.120	118	60-140	18.3	40
Aroclor-1260 (PCB-1260)	0.749		0.120	ug/L	1.20	<0.120	62.4	60-140	6.12	40
PCBs, Total	0.869		0.120	ug/L	1.20	<0.120	72.4	60-140	9.27	40
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Surrogate: 2,4,5,6			0.160	ug/L	0.120		133	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.0885	ug/L	0.120		73.7	60-140		

Batch: BGH4443 - SW-3570

Blank (BGH4443-BLK1)

Prepared: 8/25/2023 Analyzed: 9/1/2023

PCBs, Total	<2.00	U	2.00	ug/kg wet						
<hr/>										
Surrogate: 2,4,5,6			0.682	ug/kg wet	0.600		114	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.702	ug/kg wet	0.600		117	60-140		

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Quality Control (Continued)

Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH4443 - SW-3570 (Continued)										
LCS (BGH4443-BS1)										
					Prepared: 8/25/2023 Analyzed: 9/1/2023					
Aroclor-1016 (PCB-1016)	5.76		2.00	ug/kg wet	6.00		95.9	60-140		
Aroclor-1260 (PCB-1260)	6.56		2.00	ug/kg wet	6.00		109	60-140		
PCBs, Total	6.41		2.00	ug/kg wet	6.00		107	60-140		

Surrogate: 2,4,5,6			0.678	ug/kg wet	0.600		113	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.711	ug/kg wet	0.600		119	60-140		

LCS Dup (BGH4443-BSD1)										
					Prepared: 8/25/2023 Analyzed: 9/1/2023					
Aroclor-1016 (PCB-1016)	5.71		2.00	ug/kg wet	6.00		95.2	60-140	0.757	40
Aroclor-1260 (PCB-1260)	5.15		2.00	ug/kg wet	6.00		85.8	60-140	24.2	40
PCBs, Total	5.26		2.00	ug/kg wet	6.00		87.6	60-140	19.7	40

Surrogate: 2,4,5,6			0.690	ug/kg wet	0.600		115	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.744	ug/kg wet	0.600		124	60-140		

MRL Check (BGH4443-MRL1)										
					Prepared: 8/25/2023 Analyzed: 9/1/2023					
Aroclor-1016 (PCB-1016)	1.49	J	2.00	ug/kg wet	1.20		125			
Aroclor-1260 (PCB-1260)	1.36	J	2.00	ug/kg wet	1.20		113			
PCBs, Total	1.39	J	2.00	ug/kg wet	1.20		116			

Surrogate: 2,4,5,6			0.705	ug/kg wet	0.600		117	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.660	ug/kg wet	0.600		110	60-140		

Matrix Spike (BGH4443-MS1)										
			Source: 23H3257-18			Prepared: 8/25/2023 Analyzed: 9/1/2023				
Aroclor-1016 (PCB-1016)	7.49		2.77	ug/kg dry	8.32	<2.77	90.0	60-140		
Aroclor-1260 (PCB-1260)	7.87		2.77	ug/kg dry	8.32	<2.77	94.6	60-140		
PCBs, Total	7.80		2.77	ug/kg dry	8.32	<2.77	93.7	60-140		

Surrogate: 2,4,5,6			0.924	ug/kg dry	0.832		111	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	1.20	ug/kg dry	0.832		144	60-140		

Matrix Spike Dup (BGH4443-MSD1)										
			Source: 23H3257-18			Prepared: 8/25/2023 Analyzed: 9/1/2023				
Aroclor-1016 (PCB-1016)	8.60		2.77	ug/kg dry	8.32	<2.77	103	60-140	13.8	40
Aroclor-1260 (PCB-1260)	7.83		2.77	ug/kg dry	8.32	<2.77	94.1	60-140	0.448	40
PCBs, Total	7.98		2.77	ug/kg dry	8.32	<2.77	95.9	60-140	2.33	40

Surrogate: 2,4,5,6			1.01	ug/kg dry	0.832		121	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	1.39	ug/kg dry	0.832		167	60-140		

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Quality Control
(Continued)

Metals, Total

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH3815 - SW-7471										
MDL Check (BGH3815-MRL1)										
Mercury	<0.0196	U	0.0196	mg/kg wet	0.00979					
					Prepared & Analyzed: 8/23/2023					
Matrix Spike (BGH3815-MS1)										
Mercury	0.272		0.0200	mg/kg dry	0.250	0.0218	100	80-120		
					Prepared & Analyzed: 8/23/2023					
Matrix Spike (BGH3815-MS2)										
Mercury	0.255		0.0199	mg/kg dry	0.249	0.0543	80.5	80-120		
					Prepared & Analyzed: 8/23/2023					
Matrix Spike Dup (BGH3815-MSD1)										
Mercury	0.290		0.0199	mg/kg dry	0.249	0.0218	108	80-120	6.16	20
					Prepared & Analyzed: 8/23/2023					
Matrix Spike Dup (BGH3815-MSD2)										
Mercury	0.354	J1	0.0199	mg/kg dry	0.249	0.0543	120	80-120	32.5	20
					Prepared & Analyzed: 8/23/2023					
Batch: BGH4732 - EPA 245.1										
Blank (BGH4732-BLK1)										
Mercury	<0.200	U	0.200	ug/L						
					Prepared & Analyzed: 8/29/2023					
LCS (BGH4732-BS1)										
Mercury	4.73		0.200	ug/L	5.00		94.6	85-115		
					Prepared & Analyzed: 8/29/2023					
Duplicate (BGH4732-DUP1)										
Mercury	<0.200	U	0.200	ug/L	<0.200				200	20
					Prepared & Analyzed: 8/29/2023					
Duplicate (BGH4732-DUP2)										
Mercury	<0.200	U	0.200	ug/L	<0.200					20
					Prepared & Analyzed: 8/29/2023					



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Quality Control
 (Continued)

Metals, Total (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH4732 - EPA 245.1 (Continued)

MDL Check (BGH4732-MRL1)

Prepared & Analyzed: 8/29/2023

Mercury	0.155	J	0.200	ug/L	0.100		155			
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Matrix Spike (BGH4732-MS1)

Source: 23H0396-01

Prepared & Analyzed: 8/29/2023

Mercury	5.07		0.200	ug/L	5.00	<0.200	101	70-130		
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Matrix Spike (BGH4732-MS2)

Source: 23H3257-08

Prepared & Analyzed: 8/29/2023

Mercury	5.25		0.200	ug/L	5.00	<0.200	105	70-130		
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Batch: BGH5034 - EPA 200.8 Solid

Blank (BGH5034-BLK1)

Prepared: 8/30/2023 Analyzed: 9/5/2023

Antimony	<0.100	U	0.100	mg/kg wet						
Arsenic	<0.0500	U	0.0500	mg/kg wet						
Cadmium	<0.100	U	0.100	mg/kg wet						
Chromium	<0.300	U	0.300	mg/kg wet						
Lead	<0.0500	U	0.0500	mg/kg wet						
Nickel	<0.100	U	0.100	mg/kg wet						
Silver	<0.0500	U	0.0500	mg/kg wet						
Zinc	<0.200	U	0.200	mg/kg wet						

Blank (BGH5034-BLK2)

Prepared: 8/30/2023 Analyzed: 9/5/2023

Copper	0.0299	J	0.100	mg/kg wet						
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LCS (BGH5034-BS1)

Prepared: 8/30/2023 Analyzed: 9/5/2023

Antimony	9.87		0.0982	mg/kg wet	9.80		101	85-115		
Arsenic	4.95		0.0490	mg/kg wet	4.90		101	85-115		
Cadmium	9.94		0.0982	mg/kg wet	9.80		101	85-115		
Chromium	29.5		0.294	mg/kg wet	29.4		100	85-115		
Lead	5.16		0.0490	mg/kg wet	4.90		105	85-115		
Nickel	10.0		0.0982	mg/kg wet	9.80		102	85-115		
Silver	5.24		0.0490	mg/kg wet	4.90		107	85-115		
Zinc	19.7		0.196	mg/kg wet	19.6		101	85-115		

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Quality Control
(Continued)

Metals, Total (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH5034 - EPA 200.8 Solid (Continued)

LCS (BGH5034-BS2)

Prepared: 8/30/2023 Analyzed: 9/5/2023

Copper	9.46		0.0982	mg/kg wet	9.80		96.5	85-115		
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Duplicate (BGH5034-DUP1)

Source: 23H3257-16

Prepared: 8/30/2023 Analyzed: 9/5/2023

Antimony	<0.0657	U	0.0657	mg/kg dry		<0.0657				20
Arsenic	3.53		0.0328	mg/kg dry		3.58			1.39	20
Cadmium	0.115		0.0657	mg/kg dry		0.112			2.67	20
Chromium	9.02		0.197	mg/kg dry		9.15			1.48	20
Lead	15.0		0.164	mg/kg dry		14.7			1.84	20
Nickel	9.60		0.0657	mg/kg dry		9.47			1.36	20
Silver	0.0504		0.0328	mg/kg dry		0.0495			1.94	20
Zinc	34.4		0.655	mg/kg dry		34.8			1.37	20

Duplicate (BGH5034-DUP2)

Source: 23H3257-16

Prepared: 8/30/2023 Analyzed: 9/5/2023

Copper	7.10		0.0657	mg/kg dry		7.35			3.51	20
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MDL Check (BGH5034-MRL1)

Prepared: 8/30/2023 Analyzed: 9/5/2023

Antimony	0.0464	J	0.0945	mg/kg wet	0.0472		98.4			
Arsenic	0.00575	J	0.0472	mg/kg wet	0.00472		122			
Cadmium	0.00575	J	0.0945	mg/kg wet	0.00472		122			
Chromium	0.0186	J	0.283	mg/kg wet	0.0142		131			
Lead	0.00547	J	0.0472	mg/kg wet	0.00472		116			
Nickel	0.00660	J	0.0945	mg/kg wet	0.00472		140			
Silver	0.00283	J	0.0472	mg/kg wet	0.00236		120			
Zinc	0.112	J	0.188	mg/kg wet	0.0943		119			

MDL Check (BGH5034-MRL2)

Prepared: 8/30/2023 Analyzed: 9/5/2023

Copper	0.0656	J	0.0945	mg/kg wet	0.00943		695			
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Quality Control
(Continued)

Metals, Total (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH5034 - EPA 200.8 Solid (Continued)

Matrix Spike (BGH5034-MS1)

Source: 23H3257-16

Prepared: 8/30/2023 Analyzed: 9/5/2023

Antimony	1.07	J1	0.0707	mg/kg dry	7.05	<0.0707	15.2	75-125		
Arsenic	6.61		0.0352	mg/kg dry	3.53	3.58	85.7	75-125		
Cadmium	7.23		0.0707	mg/kg dry	7.05	0.112	101	75-125		
Chromium	27.9		0.212	mg/kg dry	21.2	9.15	88.5	75-125		
Lead	18.9		0.176	mg/kg dry	3.53	14.7	118	75-125		
Nickel	17.8		0.353	mg/kg dry	7.05	9.47	118	75-125		
Silver	3.82		0.0352	mg/kg dry	3.53	0.0495	107	75-125		
Zinc	48.5		0.705	mg/kg dry	14.1	34.8	96.7	75-125		

Matrix Spike (BGH5034-MS2)

Source: 23H3257-16

Prepared: 8/30/2023 Analyzed: 9/5/2023

Copper	12.9		0.0707	mg/kg dry	7.05	7.35	79.2	75-125		
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Quality Control
 (Continued)

Metals, Dissolved

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH4284 - EPA 200.8 Dissolved

Blank (BGH4284-BLK1)

Prepared: 8/25/2023 Analyzed: 8/29/2023

Antimony	<1.00	U	1.00	ug/L						
Arsenic	<0.500	U	0.500	ug/L						
Cadmium	<1.00	U	1.00	ug/L						
Chromium	<3.00	U	3.00	ug/L						
Copper	0.520	J	1.00	ug/L						
Lead	<0.500	U	0.500	ug/L						
Nickel	<1.00	U	1.00	ug/L						
Silver	<0.500	U	0.500	ug/L						
Zinc	<2.00	U	2.00	ug/L						

LCS (BGH4284-BS1)

Prepared: 8/25/2023 Analyzed: 8/29/2023

Antimony	103		1.00	ug/L	100	103	85-115			
Arsenic	50.8		0.500	ug/L	50.0	102	85-115			
Cadmium	102		1.00	ug/L	100	102	85-115			
Chromium	297		3.00	ug/L	300	99.0	85-115			
Copper	102		1.00	ug/L	100	102	85-115			
Lead	51.5		0.500	ug/L	50.0	103	85-115			
Nickel	103		1.00	ug/L	100	103	85-115			
Silver	51.4		0.500	ug/L	50.0	103	85-115			
Zinc	204		2.00	ug/L	200	102	85-115			

Duplicate (BGH4284-DUP1)

Source: 23H3257-02

Prepared: 8/25/2023 Analyzed: 8/29/2023

Antimony	<5.00	U	5.00	ug/L	<5.00					20
Arsenic	2.93		2.50	ug/L	2.79			4.89		20
Cadmium	<5.00	U	5.00	ug/L	<5.00					20
Chromium	0.975	J	15.0	ug/L	1.06			8.26		20
Copper	3.49	J	5.00	ug/L	2.67			26.7		20
Lead	0.533	J	2.50	ug/L	0.579			8.27		20
Nickel	2.01	J	5.00	ug/L	1.96			2.27		20
Silver	<2.50	U	2.50	ug/L	<2.50					20
Zinc	3.49	J	10.0	ug/L	3.42			2.23		20



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Quality Control
(Continued)

Metals, Dissolved (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH4284 - EPA 200.8 Dissolved (Continued)										
Duplicate (BGH4284-DUP2)			Source: 23H3257-06			Prepared: 8/25/2023 Analyzed: 8/29/2023				
Antimony	<5.00	U	5.00	ug/L		<5.00				20
Arsenic	2.70		2.50	ug/L		3.06			12.4	20
Cadmium	<5.00	U	5.00	ug/L		0.531			200	20
Copper	2.32	J	5.00	ug/L		3.22			32.4	20
Nickel	1.80	J	5.00	ug/L		2.75			41.5	20
Silver	<2.50	U	2.50	ug/L		0.231			200	20
Zinc	2.47	J	10.0	ug/L		4.78			63.9	20
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Duplicate (BGH4284-DUP3)			Source: 23H3257-06			Prepared: 8/25/2023 Analyzed: 8/30/2023				
Chromium	0.800	J	15.0	ug/L		0.960			18.2	20
<hr/>										
Duplicate (BGH4284-DUP4)			Source: 23H3257-06			Prepared: 8/25/2023 Analyzed: 8/31/2023				
Lead	<2.50	U	2.50	ug/L		<2.50				20
<hr/>										
BGH3503-BLK2 (BGH4284-LBK1)						Prepared: 8/25/2023 Analyzed: 8/29/2023				
Antimony	<1.00	U	1.00	ug/L						
Arsenic	<0.500	U	0.500	ug/L						
Cadmium	<1.00	U	1.00	ug/L						
Copper	0.474	J	1.00	ug/L						
Nickel	0.0980	J	1.00	ug/L						
Silver	<0.500	U	0.500	ug/L						
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BGH3503-BLK2 (BGH4284-LBK2)						Prepared: 8/25/2023 Analyzed: 8/30/2023				
Chromium	0.124	J	3.00	ug/L						
Zinc	1.06	J	2.00	ug/L						
<hr/>										
BGH3503-BLK2 (BGH4284-LBK3)						Prepared: 8/25/2023 Analyzed: 8/31/2023				
Lead	<0.500	U	0.500	ug/L						

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Quality Control
(Continued)

Metals, Dissolved (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH4284 - EPA 200.8 Dissolved (Continued)

MDL Check (BGH4284-MRL1)

Prepared: 8/25/2023 Analyzed: 8/29/2023

Antimony	0.234	J	1.00	ug/L	0.200			117		
Arsenic	0.117	J	0.500	ug/L	0.100			117		
Cadmium	0.0560	J	1.00	ug/L	0.0500			112		
Chromium	0.0990	J	3.00	ug/L	0.0800			124		
Copper	0.434	J	1.00	ug/L	0.200			217		
Lead	0.104	J	0.500	ug/L	0.100			104		
Nickel	0.0810	J	1.00	ug/L	0.0500			162		
Silver	0.0340	J	0.500	ug/L	0.0300			113		
Zinc	0.207	J	2.00	ug/L	0.200			104		

Matrix Spike (BGH4284-MS1)

Source: 23H3257-02

Prepared: 8/25/2023 Analyzed: 8/29/2023

Antimony	101		5.00	ug/L	100	<5.00	101	75-125		
Arsenic	56.8		2.50	ug/L	50.0	2.79	108	75-125		
Cadmium	93.1		5.00	ug/L	100	<5.00	93.1	75-125		
Chromium	274		15.0	ug/L	300	1.06	90.8	75-125		
Copper	93.4		5.00	ug/L	100	2.67	90.7	75-125		
Lead	45.4		2.50	ug/L	50.0	0.579	89.6	75-125		
Nickel	91.2		5.00	ug/L	100	1.96	89.2	75-125		
Silver	44.5		2.50	ug/L	50.0	<2.50	88.9	75-125		
Zinc	190		10.0	ug/L	200	3.42	93.4	75-125		

Matrix Spike (BGH4284-MS2)

Source: 23H3257-06

Prepared: 8/25/2023 Analyzed: 8/29/2023

Antimony	99.7		5.00	ug/L	100	<5.00	99.7	75-125		
Arsenic	53.6		2.50	ug/L	50.0	3.06	101	75-125		
Cadmium	90.1		5.00	ug/L	100	0.531	89.5	75-125		
Copper	89.6		5.00	ug/L	100	3.22	86.4	75-125		
Nickel	85.1		5.00	ug/L	100	2.75	82.3	75-125		
Silver	42.7		2.50	ug/L	50.0	0.231	85.0	75-125		
Zinc	183		10.0	ug/L	200	4.78	89.0	75-125		



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Quality Control
(Continued)

Metals, Dissolved (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH4284 - EPA 200.8 Dissolved (Continued)

Matrix Spike (BGH4284-MS3)		Source: 23H3257-06		Prepared: 8/25/2023		Analyzed: 8/30/2023		
Chromium	318		15.0	ug/L	300	0.960	106	75-125
Matrix Spike (BGH4284-MS4)		Source: 23H3257-06		Prepared: 8/25/2023		Analyzed: 8/31/2023		
Lead	47.9		2.50	ug/L	50.0	<2.50	95.8	75-125



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Quality Control
 (Continued)

General Chemistry

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH3159 - Percent Solids										
Blank (BGH3159-BLK1)										
% Solids	<0.100	U	0.100	%						
					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Duplicate (BGH3159-DUP1)										
			Source: 23H0443-03		Prepared: 8/17/2023 Analyzed: 8/18/2023					
% Solids	1.35		0.100	%		1.36			0.844	10
Duplicate (BGH3159-DUP2)										
			Source: 23H3725-06		Prepared: 8/17/2023 Analyzed: 8/18/2023					
% Solids	1.37		0.100	%		1.37			0.308	10
Reference (BGH3159-SRM1)										
% Solids	0.372		0.100	%	0.350		106	78.9-118		
Batch: BGH3209 - NH3-N SEAL-350.1										
MRL Check (BGH3209-MRL1)										
Ammonia as N	0.0372			mg/L	0.0500		74.4	50-150		
					Prepared & Analyzed: 8/18/2023					
Matrix Spike (BGH3209-MS1)										
			Source: 23H0271-01		Prepared & Analyzed: 8/18/2023					
Ammonia as N	0.756		0.0500	mg/L	0.400	0.333	106	90-110		
Matrix Spike (BGH3209-MS2)										
			Source: 23H3935-03		Prepared & Analyzed: 8/18/2023					
Ammonia as N	0.401		0.0500	mg/L	0.400	<0.0500	100	90-110		
Matrix Spike Dup (BGH3209-MSD1)										
			Source: 23H0271-01		Prepared & Analyzed: 8/18/2023					
Ammonia as N	0.753		0.0500	mg/L	0.400	0.333	105	90-110	0.384	20
Matrix Spike Dup (BGH3209-MSD2)										
			Source: 23H3935-03		Prepared & Analyzed: 8/18/2023					
Ammonia as N	0.402		0.0500	mg/L	0.400	<0.0500	101	90-110	0.324	20



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Quality Control
 (Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH3543 - TKN T										
Blank (BGH3543-BLK1)										
Ammonia as N	<9.98	U	9.98	mg/kg wet						
					Prepared: 8/21/2023 Analyzed: 8/22/2023					
LCS (BGH3543-BS1)										
Ammonia as N	91.6		9.97	mg/kg wet	99.7		91.8	85-115		
					Prepared: 8/21/2023 Analyzed: 8/22/2023					
Duplicate (BGH3543-DUP1)										
Ammonia as N	3560	J	4890	mg/kg dry		3860			8.00	20
					Prepared: 8/21/2023 Analyzed: 8/22/2023					
MRL Check (BGH3543-MRL1)										
Ammonia as N	8.93	J	9.97	mg/kg wet	9.97		89.6	50-150		
					Prepared: 8/21/2023 Analyzed: 8/22/2023					
Matrix Spike (BGH3543-MS1)										
Ammonia as N	53900		4920	mg/kg dry	49200	3860	102	85-115		
					Prepared: 8/21/2023 Analyzed: 8/22/2023					

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Quality Control
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Elutriate Semivolatile Organic Compounds by GCMS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH4445 - SW-3511

Blank (BGH4445-BLK1)

Prepared: 8/25/2023 Analyzed: 8/31/2023

1,2,4-Trichlorobenzene	<0.560	U	0.560	ug/L						
1,2-Dichlorobenzene (o-Dichlorobenzene)	<0.560	U	0.560	ug/L						
1,3-Dichlorobenzene (m-Dichlorobenzene)	<0.560	U	0.560	ug/L						
1,4-Dichlorobenzene (p-Dichlorobenzene)	<0.560	U	0.560	ug/L						
2,4-Dichlorophenol	<1.12	U	1.12	ug/L						
2,4-Dimethylphenol	<1.12	U	1.12	ug/L						
2,4-Dinitrophenol	<4.48	U	4.48	ug/L						
Acenaphthene	<0.560	U	0.560	ug/L						
Acenaphthylene	<0.560	U	0.560	ug/L						
Anthracene	<0.560	U	0.560	ug/L						
Benzo(a)anthracene	<0.560	U	0.560	ug/L						
Benzo(a)pyrene	<0.560	U	0.560	ug/L						
Benzo(g,h,i)perylene	<0.560	U	0.560	ug/L						
Chrysene	<0.560	U	0.560	ug/L						
Dibenzo(a,h)anthracene	<0.560	U	0.560	ug/L						
Diethyl phthalate	0.375	J	0.560	ug/L						
Fluoranthene	<0.560	U	0.560	ug/L						
Fluorene	<0.560	U	0.560	ug/L						
Hexachlorobenzene	<0.560	U	0.560	ug/L						
Indeno(1,2,3-cd) pyrene	<0.560	U	0.560	ug/L						
Naphthalene	<0.560	U	0.560	ug/L						
Pentachlorophenol	<1.12	U	1.12	ug/L						
Phenanthrene	<0.560	U	0.560	ug/L						
Phenol, Total	0.838	J	1.12	ug/L						
Pyrene	<0.560	U	0.560	ug/L						

Surrogate: 2-Fluorobiphenyl-surr	8.87	ug/L	9.96		89.0	54.6-148
Surrogate: 2-Fluorophenol-surr	21.0	ug/L	19.9		105	55-152
Surrogate: 2,4,6-Tribromophenol-surr	21.6	ug/L	19.9		108	52.4-136
Surrogate: Nitrobenzene-d5-surr	9.47	ug/L	9.96		95.0	52-162
Surrogate: Phenol-d5-surr	20.2	ug/L	19.9		102	58.7-152
Surrogate: p-Terphenyl-d14-surr	8.63	ug/L	9.96		86.6	51.9-147

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Quality Control
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Elutriate Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH4445 - SW-3511 (Continued)

LCS (BGH4445-BS1)

Prepared: 8/25/2023 Analyzed: 8/31/2023

1,2,4-Trichlorobenzene	8.82		0.559	ug/L	9.93		88.8	60-140		
1,2-Dichlorobenzene (o-Dichlorobenzene)	8.81		0.559	ug/L	9.93		88.7	60-140		
1,3-Dichlorobenzene (m-Dichlorobenzene)	8.30		0.559	ug/L	9.93		83.6	60-140		
1,4-Dichlorobenzene (p-Dichlorobenzene)	9.56		0.559	ug/L	9.93		96.3	60-140		
2,4-Dichlorophenol	21.3		1.12	ug/L	19.9		107	60-140		
2,4-Dimethylphenol	21.4		1.12	ug/L	19.9		108	35.9-153		
2,4-Dinitrophenol	55.2		4.47	ug/L	49.7		111	60-140		
Acenaphthene	10.0		0.559	ug/L	9.93		101	60-140		
Acenaphthylene	10.3		0.559	ug/L	9.93		103	60-140		
Anthracene	10.3		0.559	ug/L	9.93		104	60-140		
Benzo(a)anthracene	10.9		0.559	ug/L	9.93		110	60-140		
Benzo(a)pyrene	10.8		0.559	ug/L	9.93		109	60-140		
Benzo(g,h,i)perylene	10.9		0.559	ug/L	9.93		110	60-140		
Chrysene	10.1		0.559	ug/L	9.93		101	60-140		
Dibenzo(a,h)anthracene	11.3		0.559	ug/L	9.93		113	60-140		
Diethyl phthalate	9.70		0.559	ug/L	9.93		97.6	60-140		
Fluoranthene	11.0		0.559	ug/L	9.93		111	60-140		
Fluorene	9.99		0.559	ug/L	9.93		101	60-140		
Hexachlorobenzene	10.1		0.559	ug/L	9.93		102	60-140		
Indeno(1,2,3-cd) pyrene	11.1		0.559	ug/L	9.93		112	60-140		
Naphthalene	9.58		0.559	ug/L	9.93		96.5	60-140		
Pentachlorophenol	19.3		1.12	ug/L	19.9		97.0	36.8-149		
Phenanthrene	10.9		0.559	ug/L	9.93		109	60-140		
Phenol, Total	21.3		1.12	ug/L	19.9		107	60-140		
Pyrene	9.67		0.559	ug/L	9.93		97.3	60-140		
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Surrogate: 2-Fluorobiphenyl-surr			9.50	ug/L	9.93		95.7	54.6-148		
Surrogate: 2-Fluorophenol-surr			21.5	ug/L	19.9		108	55-152		
Surrogate: 2,4,6-Tribromophenol-surr			18.8	ug/L	19.9		94.7	52.4-136		
Surrogate: Nitrobenzene-d5-surr			10.1	ug/L	9.93		102	52-162		
Surrogate: Phenol-d5-surr			21.0	ug/L	19.9		106	58.7-152		
Surrogate: p-Terphenyl-d14-surr			8.90	ug/L	9.93		89.6	51.9-147		

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Quality Control
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Elutriate Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH4445 - SW-3511 (Continued)										
LCS Dup (BGH4445-BSD1)										
					Prepared: 8/25/2023 Analyzed: 8/31/2023					
1,2,4-Trichlorobenzene	8.86		0.556	ug/L	9.88		89.6	60-140	0.462	40
1,2-Dichlorobenzene (o-Dichlorobenzene)	8.68		0.556	ug/L	9.88		87.8	60-140	1.53	40
1,3-Dichlorobenzene (m-Dichlorobenzene)	8.09		0.556	ug/L	9.88		81.8	60-140	2.58	40
1,4-Dichlorobenzene (p-Dichlorobenzene)	9.26		0.556	ug/L	9.88		93.7	60-140	3.18	40
2,4-Dichlorophenol	21.3		1.11	ug/L	19.8		108	60-140	0.148	40
2,4-Dimethylphenol	21.6		1.11	ug/L	19.8		109	35.9-153	1.05	40
2,4-Dinitrophenol	56.2		4.45	ug/L	49.4		114	60-140	1.71	40
Acenaphthene	9.99		0.556	ug/L	9.88		101	60-140	0.563	40
Acenaphthylene	10.4		0.556	ug/L	9.88		105	60-140	1.34	40
Anthracene	10.3		0.556	ug/L	9.88		104	60-140	0.212	40
Benzo(a)anthracene	11.0		0.556	ug/L	9.88		112	60-140	0.935	40
Benzo(a)pyrene	10.4		0.556	ug/L	9.88		105	60-140	4.12	40
Benzo(g,h,i)perylene	10.6		0.556	ug/L	9.88		107	60-140	2.85	40
Chrysene	10.0		0.556	ug/L	9.88		102	60-140	0.0361	40
Dibenzo(a,h)anthracene	10.7		0.556	ug/L	9.88		108	60-140	5.29	40
Diethyl phthalate	10.1		0.556	ug/L	9.88		102	60-140	4.26	40
Fluoranthene	11.1		0.556	ug/L	9.88		113	60-140	1.44	40
Fluorene	9.98		0.556	ug/L	9.88		101	60-140	0.157	40
Hexachlorobenzene	10.1		0.556	ug/L	9.88		102	60-140	0.351	40
Indeno(1,2,3-cd) pyrene	10.7		0.556	ug/L	9.88		108	60-140	4.13	40
Naphthalene	9.48		0.556	ug/L	9.88		95.9	60-140	1.10	40
Pentachlorophenol	19.3		1.11	ug/L	19.8		97.5	36.8-149	0.0378	40
Phenanthrene	11.1		0.556	ug/L	9.88		113	60-140	2.37	40
Phenol, Total	20.7		1.11	ug/L	19.8		105	60-140	2.96	40
Pyrene	10.5		0.556	ug/L	9.88		106	60-140	8.19	40
<i>Surrogate: 2-Fluorobiphenyl-surr</i>			9.42	ug/L	9.88		95.4	54.6-148		
<i>Surrogate: 2-Fluorophenol-surr</i>			21.7	ug/L	19.8		110	55-152		
<i>Surrogate: 2,4,6-Tribromophenol-surr</i>			19.5	ug/L	19.8		98.7	52.4-136		
<i>Surrogate: Nitrobenzene-d5-surr</i>			9.90	ug/L	9.88		100	52-162		
<i>Surrogate: Phenol-d5-surr</i>			21.6	ug/L	19.8		109	58.7-152		
<i>Surrogate: p-Terphenyl-d14-surr</i>			9.37	ug/L	9.88		94.8	51.9-147		



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Quality Control
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Elutriate Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH4445 - SW-3511 (Continued)

BGH3503-BLK1 (BGH4445-LBK1)

Prepared: 8/25/2023 Analyzed: 9/1/2023

1,2,4-Trichlorobenzene	<0.562	U	0.562	ug/L						
1,2-Dichlorobenzene (o-Dichlorobenzene)	<0.562	U	0.562	ug/L						
1,3-Dichlorobenzene (m-Dichlorobenzene)	<0.562	U	0.562	ug/L						
1,4-Dichlorobenzene (p-Dichlorobenzene)	<0.562	U	0.562	ug/L						
2,4-Dichlorophenol	<1.12	U	1.12	ug/L						
2,4-Dimethylphenol	<1.12	U	1.12	ug/L						
2,4-Dinitrophenol	<4.50	U	4.50	ug/L						
Acenaphthene	<0.562	U	0.562	ug/L						
Acenaphthylene	<0.562	U	0.562	ug/L						
Anthracene	<0.562	U	0.562	ug/L						
Benzo(a)anthracene	<0.562	U	0.562	ug/L						
Benzo(a)pyrene	<0.562	U	0.562	ug/L						
Benzo(g,h,i)perylene	<0.562	U	0.562	ug/L						
Chrysene	<0.562	U	0.562	ug/L						
Dibenzo(a,h)anthracene	<0.562	U	0.562	ug/L						
Diethyl phthalate	0.466	J	0.562	ug/L						
Fluoranthene	<0.562	U	0.562	ug/L						
Fluorene	<0.562	U	0.562	ug/L						
Hexachlorobenzene	<0.562	U	0.562	ug/L						
Indeno(1,2,3-cd) pyrene	<0.562	U	0.562	ug/L						
Naphthalene	<0.562	U	0.562	ug/L						
Pentachlorophenol	<1.12	U	1.12	ug/L						
Phenanthrene	<0.562	U	0.562	ug/L						
Phenol, Total	1.14		1.12	ug/L						
Pyrene	<0.562	U	0.562	ug/L						
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Surrogate: 2-Fluorobiphenyl-surr			9.49	ug/L	10.0		94.9	54.6-148		
Surrogate: 2-Fluorophenol-surr			21.9	ug/L	20.0		110	55-152		
Surrogate: 2,4,6-Tribromophenol-surr			22.8	ug/L	20.0		114	52.4-136		
Surrogate: Nitrobenzene-d5-surr			10.6	ug/L	10.0		106	52-162		
Surrogate: Phenol-d5-surr			24.2	ug/L	20.0		121	58.7-152		
Surrogate: p-Terphenyl-d14-surr			7.98	ug/L	10.0		79.8	51.9-147		

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Quality Control
(Continued)

Elutriate Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH4445 - SW-3511 (Continued)

MRL Check (BGH4445-MRL1)

Prepared: 8/25/2023 Analyzed: 8/31/2023

1,2,4-Trichlorobenzene	0.450	J	0.551	ug/L	0.490			91.9		
1,2-Dichlorobenzene (o-Dichlorobenzene)	0.700		0.551	ug/L	0.490			143		
1,3-Dichlorobenzene (m-Dichlorobenzene)	0.480	J	0.551	ug/L	0.490			97.9		
1,4-Dichlorobenzene (p-Dichlorobenzene)	0.501	J	0.551	ug/L	0.490			102		
2,4-Dichlorophenol	1.49		1.10	ug/L	0.980			152		
2,4-Dimethylphenol	1.22		1.10	ug/L	0.980			125		
2,4-Dinitrophenol	5.10		4.41	ug/L	2.45			208		
Acenaphthene	0.489	J	0.551	ug/L	0.490			99.8		
Acenaphthylene	0.576		0.551	ug/L	0.490			118		
Anthracene	0.357	J	0.551	ug/L	0.490			72.8		
Benzo(a)anthracene	0.600		0.551	ug/L	0.490			122		
Benzo(a)pyrene	0.533	J	0.551	ug/L	0.490			109		
Benzo(g,h,i)perylene	0.497	J	0.551	ug/L	0.490			101		
Chrysene	0.489	J	0.551	ug/L	0.490			99.8		
Dibenzo(a,h)anthracene	0.601		0.551	ug/L	0.490			123		
Diethyl phthalate	0.797		0.551	ug/L	0.490			163		
Fluoranthene	0.426	J	0.551	ug/L	0.490			86.9		
Fluorene	0.601		0.551	ug/L	0.490			123		
Hexachlorobenzene	0.298	J	0.551	ug/L	0.490			60.9		
Indeno(1,2,3-cd) pyrene	0.604		0.551	ug/L	0.490			123		
Naphthalene	0.512	J	0.551	ug/L	0.490			104		
Pentachlorophenol	0.686	J	1.10	ug/L	0.980			70.0		
Phenanthrene	0.589		0.551	ug/L	0.490			120		
Phenol, Total	1.55		1.10	ug/L	0.980			158		
Pyrene	0.427	J	0.551	ug/L	0.490			87.2		
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Surrogate: 2-Fluorobiphenyl-surr			8.93	ug/L	9.80			91.1	54.6-148	
Surrogate: 2-Fluorophenol-surr			20.4	ug/L	19.6			104	55-152	
Surrogate: 2,4,6-Tribromophenol-surr			22.2	ug/L	19.6			113	52.4-136	
Surrogate: Nitrobenzene-d5-surr			9.59	ug/L	9.80			97.9	52-162	
Surrogate: Phenol-d5-surr			19.9	ug/L	19.6			101	58.7-152	
Surrogate: p-Terphenyl-d14-surr			9.48	ug/L	9.80			96.8	51.9-147	

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Quality Control
(Continued)

Elutriate Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH4445 - SW-3511 (Continued)										
Matrix Spike (BGH4445-MS1)			Source: 23H3257-09			Prepared: 8/25/2023 Analyzed: 8/31/2023				
1,2,4-Trichlorobenzene	8.85		0.562	ug/L	10.0	<0.562	88.5	35.3-142		
1,2-Dichlorobenzene (o-Dichlorobenzene)	8.98		0.562	ug/L	10.0	<0.562	89.8	31.4-142		
1,3-Dichlorobenzene (m-Dichlorobenzene)	8.29		0.562	ug/L	10.0	<0.562	82.9	30.5-135		
1,4-Dichlorobenzene (p-Dichlorobenzene)	9.87		0.562	ug/L	10.0	<0.562	98.7	37.2-133		
2,4-Dichlorophenol	22.1		1.12	ug/L	20.0	<1.12	110	42.7-158		
2,4-Dimethylphenol	22.3		1.12	ug/L	20.0	<1.12	111	38.4-170		
2,4-Dinitrophenol	58.6		4.50	ug/L	50.0	<4.50	117	60-140		
Acenaphthene	10.2		0.562	ug/L	10.0	<0.562	102	47.3-149		
Acenaphthylene	10.5		0.562	ug/L	10.0	<0.562	105	56.5-173		
Anthracene	10.5		0.562	ug/L	10.0	<0.562	105	49.7-160		
Benzo(a)anthracene	10.6		0.562	ug/L	10.0	<0.562	106	41.7-151		
Benzo(a)pyrene	10.2		0.562	ug/L	10.0	<0.562	102	45.4-133		
Benzo(g,h,i)perylene	10.2		0.562	ug/L	10.0	<0.562	102	37.9-152		
Chrysene	10.3		0.562	ug/L	10.0	<0.562	103	51-147		
Dibenzo(a,h)anthracene	10.2		0.562	ug/L	10.0	<0.562	102	27.5-156		
Diethyl phthalate	11.3		0.562	ug/L	10.0	0.533	107	53.4-146		
Fluoranthene	10.7		0.562	ug/L	10.0	<0.562	107	45.3-156		
Fluorene	10.9		0.562	ug/L	10.0	<0.562	109	56.3-145		
Hexachlorobenzene	10.2		0.562	ug/L	10.0	<0.562	102	56.1-137		
Indeno(1,2,3-cd) pyrene	10.1		0.562	ug/L	10.0	<0.562	101	33.4-153		
Naphthalene	9.82		0.562	ug/L	10.0	<0.562	98.2	45.1-153		
Pentachlorophenol	19.8		1.12	ug/L	20.0	<1.12	99.0	42.2-151		
Phenanthrene	11.2		0.562	ug/L	10.0	<0.562	112	45.3-165		
Phenol, Total	22.9		1.12	ug/L	20.0	1.04	110	39.8-164		
Pyrene	10.8		0.562	ug/L	10.0	<0.562	108	46.3-149		
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Surrogate: 2-Fluorobiphenyl-surr			9.50	ug/L	10.0		95.0	54.6-148		
Surrogate: 2-Fluorophenol-surr			22.6	ug/L	20.0		113	55-152		
Surrogate: 2,4,6-Tribromophenol-surr			20.1	ug/L	20.0		101	52.4-136		
Surrogate: Nitrobenzene-d5-surr			10.5	ug/L	10.0		105	52-162		
Surrogate: Phenol-d5-surr			23.2	ug/L	20.0		116	58.7-152		
Surrogate: p-Terphenyl-d14-surr			8.59	ug/L	10.0		85.9	51.9-147		

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Quality Control
(Continued)

Elutriate Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH4445 - SW-3511 (Continued)										
Matrix Spike Dup (BGH4445-MSD1)			Source: 23H3257-09			Prepared: 8/25/2023 Analyzed: 8/31/2023				
1,2,4-Trichlorobenzene	8.46		0.562	ug/L	10.0	<0.562	84.6	35.3-142	4.47	40
1,2-Dichlorobenzene (o-Dichlorobenzene)	8.45		0.562	ug/L	10.0	<0.562	84.5	31.4-142	6.01	40
1,3-Dichlorobenzene (m-Dichlorobenzene)	7.88		0.562	ug/L	10.0	<0.562	78.8	30.5-135	5.04	40
1,4-Dichlorobenzene (p-Dichlorobenzene)	9.16		0.562	ug/L	10.0	<0.562	91.6	37.2-133	7.50	40
2,4-Dichlorophenol	20.7		1.12	ug/L	20.0	<1.12	103	42.7-158	6.41	40
2,4-Dimethylphenol	22.3		1.12	ug/L	20.0	<1.12	112	38.4-170	0.403	40
2,4-Dinitrophenol	57.3		4.50	ug/L	50.0	<4.50	115	60-140	2.34	40
Acenaphthene	9.74		0.562	ug/L	10.0	<0.562	97.4	47.3-149	4.76	40
Acenaphthylene	9.92		0.562	ug/L	10.0	<0.562	99.2	56.5-173	5.70	40
Anthracene	10.3		0.562	ug/L	10.0	<0.562	103	49.7-160	2.21	40
Benzo(a)anthracene	10.2		0.562	ug/L	10.0	<0.562	102	41.7-151	4.43	40
Benzo(a)pyrene	9.44		0.562	ug/L	10.0	<0.562	94.4	45.4-133	7.99	40
Benzo(g,h,i)perylene	9.63		0.562	ug/L	10.0	<0.562	96.3	37.9-152	5.41	40
Chrysene	9.40		0.562	ug/L	10.0	<0.562	94.0	51-147	9.34	40
Dibenzo(a,h)anthracene	9.57		0.562	ug/L	10.0	<0.562	95.7	27.5-156	6.17	40
Diethyl phthalate	10.6		0.562	ug/L	10.0	0.533	101	53.4-146	5.80	40
Fluoranthene	10.2		0.562	ug/L	10.0	<0.562	102	45.3-156	5.24	40
Fluorene	10.2		0.562	ug/L	10.0	<0.562	102	56.3-145	6.81	40
Hexachlorobenzene	9.47		0.562	ug/L	10.0	<0.562	94.7	56.1-137	7.09	40
Indeno(1,2,3-cd) pyrene	9.55		0.562	ug/L	10.0	<0.562	95.5	33.4-153	5.50	40
Naphthalene	9.33		0.562	ug/L	10.0	<0.562	93.3	45.1-153	5.14	40
Pentachlorophenol	18.6		1.12	ug/L	20.0	<1.12	93.0	42.2-151	6.18	40
Phenanthrene	10.4		0.562	ug/L	10.0	<0.562	104	45.3-165	7.52	40
Phenol, Total	21.1		1.12	ug/L	20.0	1.04	100	39.8-164	8.54	40
Pyrene	9.98		0.562	ug/L	10.0	<0.562	99.8	46.3-149	8.25	40
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Surrogate: 2-Fluorobiphenyl-surr			8.98	ug/L	10.0		89.8	54.6-148		
Surrogate: 2-Fluorophenol-surr			21.4	ug/L	20.0		107	55-152		
Surrogate: 2,4,6-Tribromophenol-surr			18.7	ug/L	20.0		93.7	52.4-136		
Surrogate: Nitrobenzene-d5-surr			10.1	ug/L	10.0		101	52-162		
Surrogate: Phenol-d5-surr			22.9	ug/L	20.0		114	58.7-152		
Surrogate: p-Terphenyl-d14-surr			7.82	ug/L	10.0		78.2	51.9-147		

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Quality Control
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Elutriate Organics by GC

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH3795 - SW-3511

Blank (BGH3795-BLK1)

Prepared: 8/22/2023 Analyzed: 8/24/2023

4,4'-DDD	<0.00600	U	0.00600	ug/L						
4,4'-DDE	<0.00600	U	0.00600	ug/L						
4,4'-DDT	<0.00600	U	0.00600	ug/L						
Aldrin	<0.00600	U	0.00600	ug/L						
alpha-BHC	<0.00600	U	0.00600	ug/L						
(alpha-Hexachlorocyclohexane)										
beta-BHC	<0.00600	U	0.00600	ug/L						
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	<0.00600	U	0.00600	ug/L						
cis-Chlordane (alpha-Chlordane)	<0.00600	U	0.00600	ug/L						
delta-BHC	<0.00600	U	0.00600	ug/L						
Dieldrin	<0.00600	U	0.00600	ug/L						
Endosulfan I	<0.00600	U	0.00600	ug/L						
Endosulfan II	<0.00600	U	0.00600	ug/L						
Endosulfan sulfate	<0.00600	U	0.00600	ug/L						
Endrin	<0.00600	U	0.00600	ug/L						
Endrin aldehyde	<0.00600	U	0.00600	ug/L						
Endrin ketone	<0.00600	U	0.00600	ug/L						
gamma-BHC (Lindane,	<0.00600	U	0.00600	ug/L						
gamma-HexachlorocyclohexanE)										
gamma-Chlordane	<0.00600	U	0.00600	ug/L						
Heptachlor	<0.00600	U	0.00600	ug/L						
Heptachlor epoxide	<0.00600	U	0.00600	ug/L						
Toxaphene (Chlorinated Camphene)	<0.300	U	0.300	ug/L						
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Surrogate: 2,4,5,6			0.131	ug/L	0.120		109	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.129	ug/L	0.120		108	60-140		
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LCS TOX (BGH3795-BS1)

Prepared: 8/22/2023 Analyzed: 8/24/2023

Toxaphene (Chlorinated Camphene)	1.43		0.300	ug/L	1.20		119	60-140		
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Surrogate: 2,4,5,6			0.122	ug/L	0.120		101	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.128	ug/L	0.120		107	60-140		
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Quality Control
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Elutriate Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH3795 - SW-3511 (Continued)

LCS (BGH3795-BS2)

Prepared: 8/22/2023 Analyzed: 8/25/2023

4,4'-DDD	0.127		0.00600	ug/L	0.120		106	60-140		
4,4'-DDE	0.113		0.00600	ug/L	0.120		94.5	60-140		
4,4'-DDT	0.132		0.00600	ug/L	0.120		110	60-140		
Aldrin	0.116		0.00600	ug/L	0.120		96.4	60-140		
alpha-BHC	0.143		0.00600	ug/L	0.120		119	60-140		
(alpha-Hexachlorocyclohexane)										
beta-BHC	0.140		0.00600	ug/L	0.120		116	60-140		
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	0.492		0.00600	ug/L	0.480		103	60-140		
cis-Chlordane (alpha-Chlordane)	0.119		0.00600	ug/L	0.120		99.2	60-140		
delta-BHC	0.134		0.00600	ug/L	0.120		111	60-140		
Dieldrin	0.121		0.00600	ug/L	0.120		101	60-140		
Endosulfan I	0.119		0.00600	ug/L	0.120		99.4	60-140		
Endosulfan II	0.119		0.00600	ug/L	0.120		99.0	60-140		
Endosulfan sulfate	0.131		0.00600	ug/L	0.120		109	60-140		
Endrin	0.125		0.00600	ug/L	0.120		104	60-140		
Endrin aldehyde	0.133		0.00600	ug/L	0.120		111	60-140		
Endrin ketone	0.132		0.00600	ug/L	0.120		110	60-140		
gamma-BHC (Lindane,	0.132		0.00600	ug/L	0.120		110	60-140		
gamma-HexachlorocyclohexanE)										
gamma-Chlordane	0.113		0.00600	ug/L	0.120		94.1	60-140		
Heptachlor	0.141		0.00600	ug/L	0.120		118	60-140		
Heptachlor epoxide	0.119		0.00600	ug/L	0.120		99.2	60-140		
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Surrogate: 2,4,5,6			0.133	ug/L	0.120		111	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.130	ug/L	0.120		109	60-140		

LCSD TOX (BGH3795-BS1)

Prepared: 8/22/2023 Analyzed: 8/25/2023

Toxaphene (Chlorinated Camphene)	1.36		0.300	ug/L	1.20		114	60-140	5.10	40
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Surrogate: 2,4,5,6			0.121	ug/L	0.120		101	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.126	ug/L	0.120		105	60-140		

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Quality Control
(Continued)

Elutriate Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH3795 - SW-3511 (Continued)										
LCS Dup (BGH3795-BSD2)										
Prepared: 8/22/2023 Analyzed: 8/25/2023										
4,4'-DDD	0.128		0.00600	ug/L	0.120		107	60-140	0.564	40
4,4'-DDE	0.121		0.00600	ug/L	0.120		101	60-140	6.57	40
4,4'-DDT	0.131		0.00600	ug/L	0.120		109	60-140	0.932	40
Aldrin	0.118		0.00600	ug/L	0.120		98.0	60-140	1.62	40
alpha-BHC	0.154		0.00600	ug/L	0.120		128	60-140	7.66	40
(alpha-Hexachlorocyclohexane)										
beta-BHC	0.142		0.00600	ug/L	0.120		118	60-140	1.44	40
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	0.507		0.00600	ug/L	0.480		106	60-140	2.84	40
cis-Chlordane (alpha-Chlordane)	0.122		0.00600	ug/L	0.120		102	60-140	2.60	40
delta-BHC	0.133		0.00600	ug/L	0.120		111	60-140	0.324	40
Dieldrin	0.128		0.00600	ug/L	0.120		107	60-140	5.22	40
Endosulfan I	0.127		0.00600	ug/L	0.120		106	60-140	6.16	40
Endosulfan II	0.124		0.00600	ug/L	0.120		103	60-140	4.14	40
Endosulfan sulfate	0.135		0.00600	ug/L	0.120		113	60-140	3.19	40
Endrin	0.128		0.00600	ug/L	0.120		107	60-140	2.54	40
Endrin aldehyde	0.143		0.00600	ug/L	0.120		119	60-140	6.76	40
Endrin ketone	0.135		0.00600	ug/L	0.120		113	60-140	2.70	40
gamma-BHC (Lindane,	0.135		0.00600	ug/L	0.120		112	60-140	1.90	40
gamma-HexachlorocyclohexanE)										
gamma-Chlordane	0.120		0.00600	ug/L	0.120		99.7	60-140	5.80	40
Heptachlor	0.140		0.00600	ug/L	0.120		117	60-140	0.634	40
Heptachlor epoxide	0.124		0.00600	ug/L	0.120		104	60-140	4.30	40
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Surrogate: 2,4,5,6			0.141	ug/L	0.120		117	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.126	ug/L	0.120		105	60-140		

BGH3503-BLK1 (BGH3795-LBK1)

Prepared: 8/22/2023 Analyzed: 8/25/2023

4,4'-DDD	<0.00600	CQ, U	0.00600	ug/L						
4,4'-DDE	<0.00600	CQ, U	0.00600	ug/L						
4,4'-DDT	<0.00600	CQ, U	0.00600	ug/L						
Aldrin	<0.00600	CQ, U	0.00600	ug/L						
alpha-BHC	<0.00600	CQ, U	0.00600	ug/L						
(alpha-Hexachlorocyclohexane)										
beta-BHC	<0.00600	CQ, U	0.00600	ug/L						
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	<0.00600	CQ, U	0.00600	ug/L						
cis-Chlordane (alpha-Chlordane)	<0.00600	CQ, U	0.00600	ug/L						
delta-BHC	<0.00600	CQ, U	0.00600	ug/L						
Dieldrin	<0.00600	CQ, U	0.00600	ug/L						
Endosulfan I	<0.00600	CQ, U	0.00600	ug/L						
Endosulfan II	<0.00600	CQ, U	0.00600	ug/L						
Endosulfan sulfate	<0.00600	CQ, U	0.00600	ug/L						
Endrin	<0.00600	CQ, U	0.00600	ug/L						
Endrin aldehyde	<0.00600	CQ, U	0.00600	ug/L						
Endrin ketone	<0.00600	CQ, U	0.00600	ug/L						

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Quality Control
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Elutriate Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH3795 - SW-3511 (Continued)

BGH3503-BLK1 (BGH3795-LBK1)

Prepared: 8/22/2023 Analyzed: 8/25/2023

gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	<0.00600	CQ, U	0.00600	ug/L						
gamma-Chlordane	<0.00600	CQ, U	0.00600	ug/L						
Heptachlor	<0.00600	CQ, U	0.00600	ug/L						
Heptachlor epoxide	<0.00600	CQ, U	0.00600	ug/L						
Toxaphene (Chlorinated Camphene)	<0.300	CQ, U	0.300	ug/L						
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Surrogate: 2,4,5,6		CQ, S	0.300	ug/L	0.120		250	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		CQ	0.0970	ug/L	0.120		80.9	60-140		

BGH3503-BLK1 (BGH3795-LBK3)

Prepared: 8/22/2023 Analyzed: 9/5/2023

4,4'-DDD	<0.00600	U	0.00600	ug/L						
4,4'-DDE	<0.00600	U	0.00600	ug/L						
4,4'-DDT	<0.00600	U	0.00600	ug/L						
Aldrin	<0.00600	U	0.00600	ug/L						
alpha-BHC (alpha-Hexachlorocyclohexane)	<0.00600	U	0.00600	ug/L						
beta-BHC (beta-Hexachlorocyclohexane)	<0.00600	U	0.00600	ug/L						
Chlordane (Total)	<0.00600	U	0.00600	ug/L						
cis-Chlordane (alpha-Chlordane)	<0.00600	U	0.00600	ug/L						
delta-BHC	<0.00600	U	0.00600	ug/L						
Dieldrin	<0.00600	U	0.00600	ug/L						
Endosulfan I	<0.00600	U	0.00600	ug/L						
Endosulfan II	<0.00600	U	0.00600	ug/L						
Endosulfan sulfate	<0.00600	U	0.00600	ug/L						
Endrin	<0.00600	U	0.00600	ug/L						
Endrin aldehyde	<0.00600	U	0.00600	ug/L						
Endrin ketone	<0.00600	U	0.00600	ug/L						
gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	<0.00600	U	0.00600	ug/L						
gamma-Chlordane	<0.00600	U	0.00600	ug/L						
Heptachlor	<0.00600	U	0.00600	ug/L						
Heptachlor epoxide	<0.00600	U	0.00600	ug/L						
Toxaphene (Chlorinated Camphene)	<0.300	U	0.300	ug/L						
<hr/>										
Surrogate: 2,4,5,6			0.127	ug/L	0.120		106	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.0467	ug/L	0.120		38.9	60-140		

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Quality Control
(Continued)

Elutriate Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH3795 - SW-3511 (Continued)

BGH3245-BLK1 (BGH3795-LBK4)

Prepared: 8/22/2023 Analyzed: 9/5/2023

Endrin	<0.00600	U	0.00600	ug/L						
Surrogate: 2,4,5,6		S	0.191	ug/L	0.120		159	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.0738	ug/L	0.120		61.5	60-140		

MRL TOX (BGH3795-MRL1)

Prepared: 8/22/2023 Analyzed: 8/24/2023

Toxaphene (Chlorinated Camphene)	0.310		0.300	ug/L	0.300		103	50-150		
Surrogate: 2,4,5,6			0.117	ug/L	0.120		97.4	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.115	ug/L	0.120		95.7	60-140		

MRL Check (BGH3795-MRL2)

Prepared: 8/22/2023 Analyzed: 8/25/2023

4,4'-DDD	0.0107		0.00600	ug/L	0.0120		88.9	50-150		
4,4'-DDE	0.0114		0.00600	ug/L	0.0120		95.4	50-150		
4,4'-DDT	0.0119		0.00600	ug/L	0.0120		99.0	50-150		
Aldrin	0.0105		0.00600	ug/L	0.0120		87.4	50-150		
alpha-BHC	0.0156		0.00600	ug/L	0.0120		130	50-150		
(alpha-Hexachlorocyclohexane)										
beta-BHC	0.0116		0.00600	ug/L	0.0120		96.9	50-150		
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	0.0468		0.00600	ug/L	0.0480		97.5	50-150		
cis-Chlordane (alpha-Chlordane)	0.0111		0.00600	ug/L	0.0120		92.8	50-150		
delta-BHC	<0.00600	J1, U	0.00600	ug/L	0.0120			50-150		
Dieldrin	0.0110		0.00600	ug/L	0.0120		91.2	50-150		
Endosulfan I	0.0115		0.00600	ug/L	0.0120		96.0	50-150		
Endosulfan II	0.0104		0.00600	ug/L	0.0120		87.0	50-150		
Endosulfan sulfate	0.0116		0.00600	ug/L	0.0120		97.0	50-150		
Endrin	0.0137		0.00600	ug/L	0.0120		114	50-150		
Endrin aldehyde	0.0116		0.00600	ug/L	0.0120		96.7	50-150		
Endrin ketone	0.0135		0.00600	ug/L	0.0120		112	50-150		
gamma-BHC (Lindane,	0.0120		0.00600	ug/L	0.0120		100	50-150		
gamma-HexachlorocyclohexanE)										
gamma-Chlordane	0.0102		0.00600	ug/L	0.0120		84.7	50-150		
Heptachlor	0.0145		0.00600	ug/L	0.0120		120	50-150		
Heptachlor epoxide	0.0110		0.00600	ug/L	0.0120		92.0	50-150		
Surrogate: 2,4,5,6			0.132	ug/L	0.120		110	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.125	ug/L	0.120		104	60-140		

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Quality Control
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Elutriate Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH3795 - SW-3511 (Continued)										
Matrix Spike (BGH3795-MS1)			Source: 23H3257-15		Prepared: 8/22/2023 Analyzed: 8/25/2023					
4,4'-DDD	0.158		0.00600	ug/L	0.120	<0.00600	132	60-140		
4,4'-DDE	0.129		0.00600	ug/L	0.120	<0.00600	108	60-140		
4,4'-DDT	0.150		0.00600	ug/L	0.120	<0.00600	125	60-140		
Aldrin	0.143		0.00600	ug/L	0.120	<0.00600	119	60-140		
alpha-BHC (alpha-Hexachlorocyclohexane)	0.202	J1	0.00600	ug/L	0.120	<0.00600	168	60-140		
beta-BHC (beta-Hexachlorocyclohexane)	0.179	J1	0.00600	ug/L	0.120	<0.00600	149	60-140		
Chlordane (Total)	0.656		0.00600	ug/L	0.480	<0.00600	137	60-140		
cis-Chlordane (alpha-Chlordane)	0.156		0.00600	ug/L	0.120	<0.00600	130	60-140		
delta-BHC	0.192	J1	0.00600	ug/L	0.120	<0.00600	160	60-140		
Dieldrin	0.180	J1	0.00600	ug/L	0.120	<0.00600	150	60-140		
Endosulfan I	0.169	J1	0.00600	ug/L	0.120	<0.00600	141	60-140		
Endosulfan II	0.172	J1	0.00600	ug/L	0.120	<0.00600	143	60-140		
Endosulfan sulfate	0.182	J1	0.00600	ug/L	0.120	<0.00600	151	60-140		
Endrin	0.179	J1	0.00600	ug/L	0.120	<0.00600	149	60-140		
Endrin aldehyde	0.190	J1	0.00600	ug/L	0.120	<0.00600	158	60-140		
Endrin ketone	0.195	J1	0.00600	ug/L	0.120	<0.00600	162	60-140		
gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	0.179	J1	0.00600	ug/L	0.120	<0.00600	149	60-140		
gamma-Chlordane	0.157		0.00600	ug/L	0.120	<0.00600	130	60-140		
Heptachlor	0.171	J1	0.00600	ug/L	0.120	<0.00600	143	60-140		
Heptachlor epoxide	0.173	J1	0.00600	ug/L	0.120	<0.00600	144	60-140		
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Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		S	0.171	ug/L	0.120		142	60-140		
Surrogate: Decachlorobiphenyl-surr			0.137	ug/L	0.120		114	60-140		

Matrix Spike Dup (BGH3795-MSD1)

Source: 23H3257-15

Prepared: 8/22/2023 Analyzed: 8/25/2023

4,4'-DDD	0.162		0.00600	ug/L	0.120	<0.00600	135	60-140	2.48	40
4,4'-DDE	0.126		0.00600	ug/L	0.120	<0.00600	105	60-140	2.66	40
4,4'-DDT	0.151		0.00600	ug/L	0.120	<0.00600	126	60-140	0.578	40
Aldrin	0.141		0.00600	ug/L	0.120	<0.00600	117	60-140	1.47	40
alpha-BHC (alpha-Hexachlorocyclohexane)	0.204	J1	0.00600	ug/L	0.120	<0.00600	170	60-140	1.03	40
beta-BHC (beta-Hexachlorocyclohexane)	0.190	J1	0.00600	ug/L	0.120	<0.00600	158	60-140	5.60	40
Chlordane (Total)	0.651		0.00600	ug/L	0.480	<0.00600	136	60-140	0.818	40
cis-Chlordane (alpha-Chlordane)	0.151		0.00600	ug/L	0.120	<0.00600	126	60-140	2.85	40
delta-BHC	0.204	J1	0.00600	ug/L	0.120	<0.00600	170	60-140	6.09	40
Dieldrin	0.182	J1	0.00600	ug/L	0.120	<0.00600	152	60-140	1.34	40
Endosulfan I	0.167		0.00600	ug/L	0.120	<0.00600	139	60-140	1.23	40
Endosulfan II	0.171	J1	0.00600	ug/L	0.120	<0.00600	143	60-140	0.444	40
Endosulfan sulfate	0.207	J1	0.00600	ug/L	0.120	<0.00600	173	60-140	13.1	40
Endrin	0.183	J1	0.00600	ug/L	0.120	<0.00600	153	60-140	2.34	40
Endrin aldehyde	0.201	J1	0.00600	ug/L	0.120	<0.00600	168	60-140	5.86	40
Endrin ketone	0.204	J1	0.00600	ug/L	0.120	<0.00600	170	60-140	4.56	40

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Quality Control
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Elutriate Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH3795 - SW-3511 (Continued)										
Matrix Spike Dup (BGH3795-MSD1) Source: 23H3257-15 Prepared: 8/22/2023 Analyzed: 8/25/2023										
gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	0.183	J1	0.00600	ug/L	0.120	<0.00600	153	60-140	2.08	40
gamma-Chlordane	0.150		0.00600	ug/L	0.120	<0.00600	125	60-140	4.10	40
Heptachlor	0.178	J1	0.00600	ug/L	0.120	<0.00600	148	60-140	3.94	40
Heptachlor epoxide	0.172	J1	0.00600	ug/L	0.120	<0.00600	143	60-140	0.912	40

Surrogate: 2,4,5,6		S	0.184	ug/L	0.120		153	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.135	ug/L	0.120		112	60-140		

Batch: BGH4424 - SW-3511

Blank (BGH4424-BLK1) Prepared: 8/25/2023 Analyzed: 8/31/2023										
PCBs, Total	<0.120	U	0.120	ug/L						

Surrogate: 2,4,5,6			0.105	ug/L	0.120		87.4	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.125	ug/L	0.120		104	60-140		

LCS (BGH4424-BS1) Prepared: 8/25/2023 Analyzed: 9/1/2023										
Aroclor-1016 (PCB-1016)	1.03		0.120	ug/L	1.20		86.1	60-140		
Aroclor-1260 (PCB-1260)	0.915		0.120	ug/L	1.20		76.3	60-140		
PCBs, Total	0.938		0.120	ug/L	1.20		78.2	60-140		

Surrogate: 2,4,5,6			0.120	ug/L	0.120		100	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.120	ug/L	0.120		100	60-140		

LCS Dup (BGH4424-BSD1) Prepared: 8/25/2023 Analyzed: 9/1/2023										
Aroclor-1016 (PCB-1016)	0.962		0.120	ug/L	1.20		80.2	60-140	7.13	40
Aroclor-1260 (PCB-1260)	0.823		0.120	ug/L	1.20		68.6	60-140	10.6	40
PCBs, Total	0.850		0.120	ug/L	1.20		70.8	60-140	9.84	40

Surrogate: 2,4,5,6			0.105	ug/L	0.120		87.5	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.134	ug/L	0.120		112	60-140		

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Quality Control (Continued)

Elutriate Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH4424 - SW-3511 (Continued)

BGH3503-BLK1 (BGH4424-LBK1)

Prepared: 8/25/2023 Analyzed: 9/1/2023

Aroclor-1016 (PCB-1016)	<0.120	U	0.120	ug/L						
Aroclor-1221 (PCB-1221)	<0.120	U	0.120	ug/L						
Aroclor-1232 (PCB-1232)	<0.120	U	0.120	ug/L						
Aroclor-1242 (PCB-1242)	<0.120	U	0.120	ug/L						
Aroclor-1248 (PCB-1248)	<0.120	U	0.120	ug/L						
Aroclor-1254 (PCB-1254)	<0.120	U	0.120	ug/L						
Aroclor-1260 (PCB-1260)	<0.120	U	0.120	ug/L						
PCBs, Total	<0.120	U	0.120	ug/L						
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Surrogate: 2,4,5,6			0.137	ug/L	0.120		114	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr	5		0.0355	ug/L	0.120		29.6	60-140		

MRL Check (BGH4424-MRL1)

Prepared: 8/25/2023 Analyzed: 8/31/2023

Aroclor-1016 (PCB-1016)	0.401	J1	0.120	ug/L	0.240		167	50-150		
Aroclor-1260 (PCB-1260)	0.197		0.120	ug/L	0.240		82.0	50-150		
PCBs, Total	0.237		0.120	ug/L	0.240		98.6	50-150		
<hr/>										
Surrogate: 2,4,5,6			0.105	ug/L	0.120		87.6	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.134	ug/L	0.120		112	60-140		

Matrix Spike (BGH4424-MS1)

Source: 23H3257-14

Prepared: 8/25/2023 Analyzed: 9/1/2023

Aroclor-1016 (PCB-1016)	1.18		0.120	ug/L	1.20	<0.120	98.0	60-140		
Aroclor-1260 (PCB-1260)	0.705	J1	0.120	ug/L	1.20	<0.120	58.7	60-140		
PCBs, Total	0.792		0.120	ug/L	1.20	<0.120	66.0	60-140		
<hr/>										
Surrogate: 2,4,5,6			0.130	ug/L	0.120		108	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.0952	ug/L	0.120		79.4	60-140		

Matrix Spike Dup (BGH4424-MSD1)

Source: 23H3257-14

Prepared: 8/25/2023 Analyzed: 9/1/2023

Aroclor-1016 (PCB-1016)	1.41		0.120	ug/L	1.20	<0.120	118	60-140	18.3	40
Aroclor-1260 (PCB-1260)	0.749		0.120	ug/L	1.20	<0.120	62.4	60-140	6.12	40
PCBs, Total	0.869		0.120	ug/L	1.20	<0.120	72.4	60-140	9.27	40
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Surrogate: 2,4,5,6			0.160	ug/L	0.120		133	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.0885	ug/L	0.120		73.7	60-140		



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Elutriate Metals, Dissolved

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH4284 - EPA 200.8 Dissolved

Blank (BGH4284-BLK1)

Prepared: 8/25/2023 Analyzed: 8/29/2023

Antimony	<1.00	U	1.00	ug/L						
Arsenic	<0.500	U	0.500	ug/L						
Cadmium	<1.00	U	1.00	ug/L						
Chromium	<3.00	U	3.00	ug/L						
Copper	0.520	J	1.00	ug/L						
Lead	<0.500	U	0.500	ug/L						
Nickel	<1.00	U	1.00	ug/L						
Silver	<0.500	U	0.500	ug/L						
Zinc	<2.00	U	2.00	ug/L						

LCS (BGH4284-BS1)

Prepared: 8/25/2023 Analyzed: 8/29/2023

Antimony	103		1.00	ug/L	100	103		85-115		
Arsenic	50.8		0.500	ug/L	50.0	102		85-115		
Cadmium	102		1.00	ug/L	100	102		85-115		
Chromium	297		3.00	ug/L	300	99.0		85-115		
Copper	102		1.00	ug/L	100	102		85-115		
Lead	51.5		0.500	ug/L	50.0	103		85-115		
Nickel	103		1.00	ug/L	100	103		85-115		
Silver	51.4		0.500	ug/L	50.0	103		85-115		
Zinc	204		2.00	ug/L	200	102		85-115		

Duplicate (BGH4284-DUP1)

Source: 23H3257-02

Prepared: 8/25/2023 Analyzed: 8/29/2023

Antimony	<5.00	U	5.00	ug/L		<5.00				20
Arsenic	2.93		2.50	ug/L		2.79			4.89	20
Cadmium	<5.00	U	5.00	ug/L		<5.00				20
Chromium	0.975	J	15.0	ug/L		1.06			8.26	20
Copper	3.49	J	5.00	ug/L		2.67			26.7	20
Lead	0.533	J	2.50	ug/L		0.579			8.27	20
Nickel	2.01	J	5.00	ug/L		1.96			2.27	20
Silver	<2.50	U	2.50	ug/L		<2.50				20
Zinc	3.49	J	10.0	ug/L		3.42			2.23	20



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**Quality Control
 (Continued)**

Elutriate Metals, Dissolved (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH4284 - EPA 200.8 Dissolved (Continued)

Duplicate (BGH4284-DUP2)

Source: 23H3257-06

Prepared: 8/25/2023 Analyzed: 8/29/2023

Antimony	<5.00	U	5.00	ug/L		<5.00				20
Arsenic	2.70		2.50	ug/L		3.06			12.4	20
Cadmium	<5.00	U	5.00	ug/L		0.531			200	20
Copper	2.32	J	5.00	ug/L		3.22			32.4	20
Nickel	1.80	J	5.00	ug/L		2.75			41.5	20
Silver	<2.50	U	2.50	ug/L		0.231			200	20
Zinc	2.47	J	10.0	ug/L		4.78			63.9	20

Duplicate (BGH4284-DUP3)

Source: 23H3257-06

Prepared: 8/25/2023 Analyzed: 8/30/2023

Chromium	0.800	J	15.0	ug/L		0.960			18.2	20
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Duplicate (BGH4284-DUP4)

Source: 23H3257-06

Prepared: 8/25/2023 Analyzed: 8/31/2023

Lead	<2.50	U	2.50	ug/L		<2.50				20
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BGH3503-BLK2 (BGH4284-LBK1)

Prepared: 8/25/2023 Analyzed: 8/29/2023

Antimony	<1.00	U	1.00	ug/L						
Arsenic	<0.500	U	0.500	ug/L						
Cadmium	<1.00	U	1.00	ug/L						
Copper	0.474	J	1.00	ug/L						
Nickel	0.0980	J	1.00	ug/L						
Silver	<0.500	U	0.500	ug/L						

BGH3503-BLK2 (BGH4284-LBK2)

Prepared: 8/25/2023 Analyzed: 8/30/2023

Chromium	0.124	J	3.00	ug/L						
Zinc	1.06	J	2.00	ug/L						

BGH3503-BLK2 (BGH4284-LBK3)

Prepared: 8/25/2023 Analyzed: 8/31/2023

Lead	<0.500	U	0.500	ug/L						
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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
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Quality Control
(Continued)

Elutriate Metals, Dissolved (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH4284 - EPA 200.8 Dissolved (Continued)

MDL Check (BGH4284-MRL1)

Prepared: 8/25/2023 Analyzed: 8/29/2023

Antimony	0.234	J	1.00	ug/L	0.200			117		
Arsenic	0.117	J	0.500	ug/L	0.100			117		
Cadmium	0.0560	J	1.00	ug/L	0.0500			112		
Chromium	0.0990	J	3.00	ug/L	0.0800			124		
Copper	0.434	J	1.00	ug/L	0.200			217		
Lead	0.104	J	0.500	ug/L	0.100			104		
Nickel	0.0810	J	1.00	ug/L	0.0500			162		
Silver	0.0340	J	0.500	ug/L	0.0300			113		
Zinc	0.207	J	2.00	ug/L	0.200			104		

Matrix Spike (BGH4284-MS1)

Source: 23H3257-02

Prepared: 8/25/2023 Analyzed: 8/29/2023

Antimony	101		5.00	ug/L	100	<5.00	101	75-125		
Arsenic	56.8		2.50	ug/L	50.0	2.79	108	75-125		
Cadmium	93.1		5.00	ug/L	100	<5.00	93.1	75-125		
Chromium	274		15.0	ug/L	300	1.06	90.8	75-125		
Copper	93.4		5.00	ug/L	100	2.67	90.7	75-125		
Lead	45.4		2.50	ug/L	50.0	0.579	89.6	75-125		
Nickel	91.2		5.00	ug/L	100	1.96	89.2	75-125		
Silver	44.5		2.50	ug/L	50.0	<2.50	88.9	75-125		
Zinc	190		10.0	ug/L	200	3.42	93.4	75-125		

Matrix Spike (BGH4284-MS2)

Source: 23H3257-06

Prepared: 8/25/2023 Analyzed: 8/29/2023

Antimony	99.7		5.00	ug/L	100	<5.00	99.7	75-125		
Arsenic	53.6		2.50	ug/L	50.0	3.06	101	75-125		
Cadmium	90.1		5.00	ug/L	100	0.531	89.5	75-125		
Copper	89.6		5.00	ug/L	100	3.22	86.4	75-125		
Nickel	85.1		5.00	ug/L	100	2.75	82.3	75-125		
Silver	42.7		2.50	ug/L	50.0	0.231	85.0	75-125		
Zinc	183		10.0	ug/L	200	4.78	89.0	75-125		



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Quality Control
 (Continued)

Elutriate Metals, Dissolved (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BGH4284 - EPA 200.8 Dissolved (Continued)

Matrix Spike (BGH4284-MS3)

Source: 23H3257-06

Prepared: 8/25/2023 Analyzed: 8/30/2023

Chromium	318		15.0	ug/L	300	0.960	106	75-125		
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Matrix Spike (BGH4284-MS4)

Source: 23H3257-06

Prepared: 8/25/2023 Analyzed: 8/31/2023

Lead	47.9		2.50	ug/L	50.0	<2.50	95.8	75-125		
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Quality Control
 (Continued)

Elutriate Metals, Total

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH4295 - EPA 245.1										
Blank (BGH4295-BLK1)										
Mercury	0.153	J	0.200	ug/L	Prepared & Analyzed: 8/25/2023					
LCS (BGH4295-BS1)										
Mercury	4.99		0.200	ug/L	5.00		99.7	85-115		
Duplicate (BGH4295-DUP1) Source: 23H3257-11										
Mercury	0.153	J	0.200	ug/L		0.153			0.00	20
BGH3503-LBK1 (BGH4295-LBK1)										
Mercury	0.153	J	0.200	ug/L	Prepared & Analyzed: 8/25/2023					
MDL Check (BGH4295-MRL1)										
Mercury	0.238		0.200	ug/L	0.100		238			
Matrix Spike (BGH4295-MS1) Source: 23H3257-11										
Mercury	4.90		0.200	ug/L	5.00	0.153	94.8	70-130		
Batch: BGH4560 - EPA 245.1										
Blank (BGH4560-BLK1)										
Mercury	<0.200	U	0.200	ug/L	Prepared & Analyzed: 8/28/2023					
LCS (BGH4560-BS1)										
Mercury	4.59		0.200	ug/L	5.00		91.8	85-115		
Duplicate (BGH4560-DUP1) Source: 23H3257-09RE1										
Mercury	<0.200	U	0.200	ug/L		<0.200				20



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**Quality Control
 (Continued)**

Elutriate Metals, Total (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH4560 - EPA 245.1 (Continued)										
BGH3503-LBK1 (BGH4560-LBK1)										
Mercury	<0.200	U	0.200	ug/L						Prepared & Analyzed: 8/28/2023
MDL Check (BGH4560-MRL1)										
Mercury	<0.200	U	0.200	ug/L						Prepared & Analyzed: 8/28/2023 0.100
Matrix Spike (BGH4560-MS1)										
			Source: 23H3257-09RE1							Prepared & Analyzed: 8/28/2023
Mercury	5.12		0.200	ug/L	5.00	<0.200	102	70-130		



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Quality Control
(Continued)

Elutriate General Chemistry

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BGH4002 - NH3-N SEAL-350.1										
Leach Fluid Blank (BGH4002-LBK1)										
Ammonia as N	<0.0500	U	0.0500	mg/L	Prepared & Analyzed: 8/24/2023					
MRL Check (BGH4002-MRL1)										
Ammonia as N	0.0641			mg/L	0.0500		128	50-150		
Matrix Spike (BGH4002-MS1)										
	Source: 23H0642-01									
Ammonia as N	0.473		0.0500	mg/L	0.400	0.0967	94.0	90-110		
Matrix Spike (BGH4002-MS2)										
	Source: 23H3165-01									
Ammonia as N	0.450		0.0500	mg/L	0.400	0.0654	96.2	90-110		
Matrix Spike Dup (BGH4002-MSD1)										
	Source: 23H0642-01									
Ammonia as N	0.487		0.0500	mg/L	0.400	0.0967	97.5	90-110	2.96	20
Matrix Spike Dup (BGH4002-MSD2)										
	Source: 23H3165-01									
Ammonia as N	0.447		0.0500	mg/L	0.400	0.0654	95.4	90-110	0.714	20



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Project Number:
Project Manager: Sara Flaherty

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Sample Condition Checklist

Work Order: 23H3257

Check Points

- No Custody Seals
- Yes Containers Intact
- Yes COC/Labels Agree
- Yes Received On Ice
- Yes Appropriate Containers
- Yes Appropriate Sample Volume
- Yes Coolers Intact
- Yes Samples Accepted

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Project Manager: Sara Flaherty

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Term and Qualifier Definitions

Item	Definition
B	Analyte was found in the associated method blank.
B2	The analyte was detected in the associated leach blank.
C+	The associated calibration QC is higher than the established quality control criteria for accuracy - no hit in sample; data not affected and acceptable to report.
CQ	Low ISD
CQa	The sample is being rerun to due ND sample results and low surr %.
HR	The rerun parameter was analyzed outside the method specified holding time.
J	Estimated value - The reported value is between the detection limit and reporting limit.
J1	Estimated value - The reported value is outside the established quality control criteria for accuracy and/or precision.
R	The sample result was rejected. A rerun is being performed.
S	The surrogate recovery was outside the established laboratory recovery limit.
U	Non-detected compound.
V	Analyte was detected in both sample and method blank.
V2	The analyte was detected in the sample and the associated leach blank.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated
*	A = Accredited, N = Not Accredited or Accreditation not available
DF	Dilution Factor - the factor applied to the reported data due to sample preparation, dilution, or moisture content
MDL	Method Detection Limit - The minimum concentration of a substance (or analyte) that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. Based on standard deviation of replicate spiked samples take through all steps of the analytical procedure following 40 CFR Part 136 Appendix B.
SDL	Sample Detection Limit - The minimum concentration of a substance (analyte) that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The SDL is an adjusted limit thus sample specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments. If there are no sample specific parameters, the MDL = SDL.
MRL	Method Reporting Limit - Analyte concentration that corresponds to the lowest level lab reports with confidence in accuracy of quantitation and without qualification (i.e. J-flagged). The MRL is at or above the lowest calibration standard.
LRL	Laboratory Reporting Limit - Analyte concentration that corresponds to the lowest level lab reports with confidence in accuracy of quantitation and without qualification (i.e. J-flagged). The LRL is an adjusted limit thus sample specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments. If there are no sample specific parameters, the MRL = LRL.



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
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Anchor OEA, LLC
 Sara Flaherty
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-01	GB-23-EQ BLK	1420 8/15/23	8/15/23 1420	AQ Grab	A. PreClean HDPE 250mL HNO3 after Fil B. PreCleaned HDPE 250mL HNO3	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 201 HNO3 Zinc KED D ICPMS 200 HNO3	
Field Remarks: H2SO4 (Circle and Write ID) <u>HNO3</u> NaOH Other: <u>2302875</u>							
Sampler (Signature) <i>A Stewart</i>		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Print Name <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Affiliation <i>AQ</i>		Relinquished To Lab By: (Signature) <i>E. Stewart</i>		Date/Time <i>8/17/118</i>		Received for Laboratory By: (Signature) <i>ROR</i>	
Custody Seal: Yes / No		COC Labels Agree: Yes / No		Appropriate Volume: Yes / No		Received on Ice: Yes / No	
Container Intact: Yes / No		Appropriate Containers: Yes / No		Coolers Intact: Yes / No		Samples Accepted: Yes / No	
Temperature: <u>11.6</u> °C		Thermometer ID: <u>210556832</u>					

Anchor

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Anchor OEA, LLC
 Sara Flaherty
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 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results	
23H3257-02	GB-23-01-W	8:27 8/15/23	8:38 8/15/23	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass VOA 60mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl O Glass VOA 40mL HCl pH<2	Antimony/ KED D ICPMS HNO3 Arsenic/ KED D ICPMS 2 HNO3 Cadmium/ KED D ICPMS HNO3 Chromium/ KED D ICPMS HNO3 Copper/ KED D ICPMS 2 HNO3 Hg-245,1 Lead/ KED D ICPMS 200 HNO3 Nickel/ KED D ICPMS 20 HNO3 Silver/ KED D ICPMS 20 HNO3 Zinc/ KED D ICPMS 200. HNO3 OCP-8081 PCB-8082 SVOA-8270 TPH-1005 NH3-N SEAL-350.1 Site Water Elutriate Pref 4°C TOC-5310 C H2SO4 4°C	NaOH Other:	
Field Remarks: Preservation: (H2SO4) (HNO3) 2108097 2308035								
Sampler (Signature)	Relinquished By: (Signature)	Relinquished By: (Signature)	Relinquished To Lab By: (Signature)	Date/Time	Received By: (Signature)	Received for Laboratory By: (Signature)	Date/Time	
Print Name	Relinquished By: (Signature)	Relinquished By: (Signature)	Relinquished To Lab By: (Signature)	Date/Time	Received By: (Signature)	Received for Laboratory By: (Signature)	Date/Time	
Affiliation				Date/Time			Date/Time	

Custody Seal: Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____ °C
 Container Intact: Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____



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Anchor OEA, LLC
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 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
Field Remarks: _____ Preservation: H2SO4 _____ HNO3 _____ NaOH _____ Other: _____ Circle and Write ID)							
Sampler (Signature) <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time			
Print Name <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time			
Affiliation <i>DAQ</i>		Relinquished To Lab By: (Signature) <i>E. Stewart</i>		Date/Time <i>8/17/23 11:18</i>			
Custody Seal: Yes / No		COC Labels Agree: Yes / No		Appropriate Volume: Yes / No		Received on Ice: Yes / No	
Container Intact: Yes / No		Appropriate Containers: Yes / No		Coolers Intact: Yes / No		Samples Accepted: Yes / No	
Anchor		Temperature: _____ °C		Thermometer ID: _____			



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Anchor OEA, LLC
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 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results	
23H3257-03	GB-23-02-W	9:33 8/15/23	9:43 8/15/23	AQ Grab	A PreClean HDPE 250ml B HNO3 after Fil C Precleaned HDPE D 250ml HNO3 E Precleaned HDPE F 250ml H2SO4 G Glass VOA 60ml H Glass VOA 60ml I Glass VOA 60ml J Glass VOA 60ml K Glass VOA 60ml L Glass VOA 60ml M Glass VOA 60ml N Glass VOA 40ml HCl O pH<2 P Glass VOA 40ml HCl Q pH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-245 .1 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200 HNO3 OCP-8081 PCB-8082 SVOA-8270 TPH-1005 NH3-N SEAL-350 .1 Site Water Elutriate Pref 4°C TOC-5310 C H2SO4 4°C	NaOH H2SO4 4°C	Other: _____
Field Remarks: _____								
Sampler (Signature): <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time				Received By: (Signature)
Print Name: <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time				Received By: (Signature)
Affiliation: <i>AQ</i>		Relinquished To Lab By: (Signature)		Date/Time				Received for Laboratory By: (Signature)
Custody Seal: Yes / No		COC Labels Agree: Yes / No		Appropriate Volume: Yes / No		Received on Ice: Yes / No		
Container Intact: Yes / No		Appropriate Containers: Yes / No		Coolers Intact: Yes / No		Samples Accepted: Yes / No		
Temperature: _____		Thermometer ID: _____		Date/Time: _____				



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 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
Field Remarks: H2SO4 HNO3 NaOH Other:							
Sampler (Signature)		Relinquished By: (Signature)				Received By: (Signature)	Date/Time
Print Name: E. Stewart		Relinquished By: (Signature)				Received By: (Signature)	Date/Time
Affiliation: AQD		Relinquished To Lab By: (Signature)			Date/Time: 8/17/23 11:18	Received for Laboratory By: (Signature)	Date/Time: 8.17.23 11:18
Custody Seal: Yes / No	COC Labels Agree: Yes / No	Appropriate Containers: Yes / No	Appropriate Volume: Yes / No	Coolers Intact: Yes / No	Received on Ice: Yes / No	Samples Accepted: Yes / No	Temperature: Thermometer ID:

Anchor

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Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results	
23H3257-04	GB-23-03-W	10:34 8/15/23	10:41 8/15/23	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass 250mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl PH<2 O Glass VOA 40mL HCl PH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-246.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200 HNO3 OCp-8081 4°C PCB-8082 4°C SVQA-8270 4°C TPH-1005 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Prep 4°C TOC-5310 C H2SO4 4°C		
Field Remarks: Preservation: (H2SO4) (HNO3) NaOH Other: (Circle and Write ID) 210 B097 2308875								
Sampler (Signature) <i>B. Stuart</i>		Relinquished By: (Signature)		Date/Time				Date/Time
Print Name <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time				Date/Time
Affiliation <i>AQ</i>		Relinquished To Lab By: (Signature) <i>E. Stewart</i>		Date/Time <i>11/8</i>				Date/Time <i>8.17.23</i>

Custody Seal : Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____
 Container Intact : Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
 130 S. Trade Center Pkwy, Conroe TX 77385
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Anchor QEA, LLC
 Sara Flaherty
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023
 Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
Field Remarks: Preservation: H2SO4 HNO3 NaOH Other:							
Sampler (Signature): <i>E.S. Steward</i>		Relinquished By: (Signature)		Date/Time			
Print Name: <i>E. Steward</i>		Relinquished By: (Signature)		Date/Time			
Affiliation: <i>AR</i>		Relinquished To Lab By: (Signature): <i>E.S. Steward</i>		Date/Time: <i>8/17/23</i>			
Custody Seal: Yes / No		COC Labels Agree: Yes / No		Appropriate Volume: Yes / No		Received on Ice: Yes / No	
Container Intact: Yes / No		Appropriate Containers: Yes / No		Coolers Intact: Yes / No		Samples Accepted: Yes / No	
Anchor		Temperature: _____		Thermometer ID: _____		Date/Time: <i>8.17.23</i>	



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
 130 S. Trade Center Pkwy, Conroe TX 77385
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Anchor OEA, LLC
 Sara Flaherty
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results	
23H3257-05	GB-23-04-W	11:45 8/15/23	11:55 8/15/23	AQ Grab	A PreClean HDPE 250mL B HNO3 after Fill C Precleaned HDPE D 250mL HNO3 E Precleaned HDPE F 250mL H2SO4 G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl O Glass VOA 40mL HCl PH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200 HNO3 OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Prep 4°C TOC-5310 C H2SO4 4°C		
Field Remarks: Preservation: (H2SO4) (HNO3) NaOH Other: Write ID) 2108042 2308075								
Sampler (Signature) <i>E. Stewart</i>		Relinquished By: (Signature)		Received By: (Signature)				Date/Time
Print Name <i>E. Stewart</i>		Relinquished By: (Signature)		Received By: (Signature)				Date/Time
Affiliation <i>AQ</i>		Relinquished To Lab By: (Signature) <i>E. Stewart</i>		Received for Laboratory By: (Signature) <i>PCR</i>				Date/Time <i>8.17.23</i>

Custody Seal : Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____ °C
 Container Intact : Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____



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Anchor OEA, LLC
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 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results	
Field Remarks: _____ Preservation: H2SO4 _____ HNO3 _____ NaOH _____ Other: _____ (Circle and Write ID)								
					P Glass VOA 40mL HCl pH<2 Q Amber Glass 1L w/ Teflon-lined Lid R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid			
Sampler (Signature): <i>E. Stewart</i>		Relinquished By: (Signature)		Received By: (Signature)				Date/Time
Print Name: <i>E. Stewart</i>		Relinquished By: (Signature)		Received By: (Signature)				Date/Time
Affiliation: <i>APD</i>		Relinquished To Lab By: (Signature)		Received for Laboratory By: (Signature)				Date/Time

Custody Seal: Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No
 Container Intact: Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No

Temperature: _____ Thermometer ID: _____
 Date/Time: *8.17.23*

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Anchor OEA, LLC
 Sara Flaherty
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 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results	
23H3257-06	GB-23-05-W	8:50 8/16/23	8:57 8/16/23	AQ Grab	A PreClean HDPE 250mL HNO3 after Fill B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass 250mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl O Glass VOA 40mL HCl pH<2 pH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200 HNO3 OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Pref 4°C TOC-5310 C H2SO4 4°C	NaOH Other:	
Field Remarks: Preservation: (H2SO4) 200097 (HNO3) 2308875 (Circle and Write ID)								
Sampler (Signature) <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time				Date/Time
Print Name <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time				Date/Time
Affiliation <i>AQ</i>		Relinquished To Lab By: (Signature) <i>E. Stewart</i>		Date/Time <i>11/8</i>				Date/Time <i>8.11.23</i>
Custody Seal: Yes / No		COC Labels Agree: Yes / No		Appropriate Volume: Yes / No		Temperature: _____		
Container Intact: Yes / No		Appropriate Containers: Yes / No		Coolers Intact: Yes / No		Thermometer ID: _____		

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Anchor OEA, LLC
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 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
					P Glass VOA 40mL HCl pH<2 Q Amber Glass 1L w/ Teflon-lined Lid R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid	H2SO4 HNO3 NaOH Other:	NWDL Report Package Page 149 of 295
Field Remarks:							
Sampler (Signature): <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time			
Print Name: <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time			
Affiliation: <i>AQ</i>		Relinquished To Lab By: (Signature): <i>E. Stewart</i>		Date/Time: <i>8/17/23 11:18</i>			
Custody Seal: Yes / No		COC Labels Agree: Yes / No		Appropriate Volume: Yes / No		Received on Ice: Yes / No	
Container Intact: Yes / No		Appropriate Containers: Yes / No		Coolers Intact: Yes / No		Samples Accepted: Yes / No	
Anchor		Temperature: _____		Thermometer ID: _____		Date/Time: <i>8/17/23 11:18</i>	



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Anchor OEA, LLC
Sara Flaherty
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Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results	
23H3257-07	GB-23-06-W	10:05 8/16/23	10:11 8/16/23	AQ Grab	A PreClean HDPE 250mL B HNO3 after Fill C PreCleaned HDPE D 250mL HNO3 E PreCleaned HDPE F 250mL H2SO4 G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl O Glass VOA 40mL HCl pH<2 pH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPMS HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200 HNO3 OCP-8081 PCB-8082 SVOA-8270 TPH-1005 NH3-N SEAL-350.1 Site Water Elutriate Pref 4°C TOC-5310 C H2SO4 4°C	NaOH Other:	NWDLS Report Package Page 150 of 295
Field Remarks:								
Sampler (Signature): <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time				
Print Name: <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time				
Affiliation: <i>AQR</i>		Relinquished To Lab By: (Signature): <i>E. Stewart</i>		Date/Time: <i>8/17/23</i>				
Custody Seal: Yes / No		COC Labels Agree: Yes / No		Appropriate Volume: Yes / No		Received on Ice: Yes / No		
Container Intact: Yes / No		Appropriate Containers: Yes / No		Coolers Intact: Yes / No		Samples Accepted: Yes / No		
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Anchor OEA, LLC
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 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results	
Field Remarks:					Preservation: H2SO4 (Circle and Write ID)	HNO3	NaOH	Other:
Sampler (Signature): <i>E. Stewart</i>		Relinquished By: (Signature)		Received By: (Signature)				Date/Time
Print Name: <i>E. Stewart</i>		Relinquished By: (Signature)		Received By: (Signature)				Date/Time
Affiliation: <i>AQ</i>		Relinquished To Lab By: (Signature): <i>E. Stewart</i>		Received for Laboratory By: (Signature): <i>POZ</i>				Date/Time: <i>8/17/23</i>

Custody Seal: Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____ °C
 Container Intact: Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____

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Anchor QEA, LLC
 Sara Flaherty
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-08	GB-23-07-W	11:10 8/15/23	11:15 8/16/23	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass VOA 60mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl O Glass VOA 40mL HCl pH<2	Antimony/ KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-245,1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200 HNO3 OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Prep 4°C TOC-5310 C H2SO4 4°C	Other: NaOH

Field Remarks: Preservation: H2SO4 (Circle and Write ID) 208097 HNO3 2308275 Other: NaOH

Sampler (Signature)	Relinquished By (Signature)	Relinquished To Lab By (Signature)	Date/Time	Received By (Signature)	Date/Time
<i>E. Stewart</i>	<i>E. Stewart</i>	<i>E. Stewart</i>	<i>8/17/23</i>	<i>PC</i>	<i>8.17.23</i>
Print Name	Relinquished By (Signature)	Relinquished To Lab By (Signature)	Date/Time	Received By (Signature)	Date/Time
Affiliation	Relinquished To Lab By (Signature)	Relinquished To Lab By (Signature)	Date/Time	Received for Laboratory By (Signature)	Date/Time

Custody Seal : Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____ °C
 Container Intact: Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____

Anchor wko_NWDLIS_COC2_modDate_LS version 4: 02/21/2021



North Water District
Laboratory Services, Inc.

CHAIN OF CUSTODY RECORD

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Anchor OEA, LLC
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Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results	
Field Remarks:					Preservation: H2SO4 (Circle and Write ID)	HNO3	NaOH	Other:
Sampler (Signature)	<i>E. Stewart</i>	Relinquished By: (Signature)			Date/Time	Received By: (Signature)	Date/Time	
Print Name	E. Stewart	Relinquished By: (Signature)			Date/Time	Received By: (Signature)	Date/Time	
Affiliation	AQ	Relinquished To Lab By: (Signature)	<i>E. Stewart</i>		Date/Time	Received for Laboratory By: (Signature)	Date/Time	
Custody Seal:	Yes / No	COC Labels Agree:	Yes / No	Appropriate Volume:	Yes / No	Received on Ice:	Yes / No	Temperature:
Container Intact:	Yes / No	Appropriate Containers:	Yes / No	Coolers Intact:	Yes / No	Samples Accepted:	Yes / No	Thermometer ID:

Anchor

wko_NWDLIS_COC2_modDate_LS version 4: 02/21/2021



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North Water District Laboratory Services
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23H3257

Anchor QEA, LLC
 Sara Flaherty
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 Phone: (361) 450-6937

Project Name : Galveston Bay 2023
 Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-09	GB-23-01-E	8:50 8/15/23	8:58 8/15/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony/KED D ICPMS 4°C Arsenic KED D ICPMS E 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E 4°C Hg-245,1-ELUT 4°C Lead KED D ICPMS EL 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCP-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle 4°C NH3-N SEAL-350,1-ELU 4°C TOC-5310 C-ELUT 4°C	NWDLIS Report Package Page 154 of 295

Field Remarks: _____

Preservation: H2SO4 HNO3 NaOH Other: _____

Write ID) _____

Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Received By: (Signature)	Date/Time
Print Name <i>E. Stewart</i>	Relinquished By: (Signature)	Received By: (Signature)	Date/Time
Affiliation <i>ADB</i>	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Received for Laboratory By: (Signature)	Date/Time <i>8/17/23</i>

Custody Seal : Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____ °C
 Container Intact: Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____



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North Water District Laboratory Services
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23H3257

Anchor QEA, LLC
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Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results	
23H3257-10	GB-23-02-E	9:53 8/15/23	9:59 8/15/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS E 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E 4°C Hg-245, 1-ELUT 4°C Lead KED D ICPMS EL 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCB-8081-ELUT 4°C PCB-8082-ELUT 4°C SVQA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle 4°C NH3-N SEAL-350, 1-ELU 4°C TOC-5310 C-ELUT 4°C		
Field Remarks: H2SO4 HNO3 NaOH Other: _____								
Sampler (Signature): <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time				Received By: (Signature)
Print Name: <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time				Received By: (Signature)
Affiliation: <i>AQ</i>		Relinquished To Lab By: (Signature)		Date/Time				Received for Laboratory By: (Signature)

Custody Seal : Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____ °C
 Container Intact : Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____



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Laboratory Services, LLC

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Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-11	GB-23-03-E	10:58 8/15/23	11:09 8/15/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS E 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E 4°C Hg-245 1-ELUT 4°C Lead KED D ICPMS EL 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCP-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle 4°C NH3-N SEAL-350.1-ELU 4°C TOC-5310 C-ELUT 4°C	

Field Remarks: _____

Preservation: H2SO4 HNO3 NaOH Other: _____

Sampler (Signature): <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name: <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation: <i>AO</i>	Relinquished To Lab By: (Signature)	Date/Time: <i>8/17/23</i>	Received for Laboratory By: (Signature)	Date/Time: <i>8/17/23</i>

Custody Seal: Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____
 Container Intact: Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____

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CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
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TCEQ T104704238-23-39

Anchor QEA, LLC
 Sara Flaherty
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 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-12	GB-23-04-E	11:45 8/15/23	11:55 8/15/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS E4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E4°C Hg-245,1-ELUT 4°C Lead KED D ICPMS EL 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCP-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle 4°C NH3-N SEAL-350,1-ELU 4°C TOC-5310 C-ELUT 4°C	NWDLIS Report Package Page 157 of 295
Field Remarks: H2SO4 HNO3 NaOH Other:							
Sampler (Signature) <i>E. Stewart</i>		Relinquished By (Signature)		Date/Time		Received By (Signature)	
Print Name <i>E. Stewart</i>		Relinquished By (Signature)		Date/Time		Received By (Signature)	
Affiliation <i>AQ</i>		Relinquished To Lab By (Signature) <i>E. Stewart</i>		Date/Time <i>8/17/23</i>		Received for Laboratory By (Signature) <i>POZ</i>	
Custody Seal: Yes / No		COC Labels Agree: Yes / No		Appropriate Volume: Yes / No		Received on Ice: Yes / No	
Container Intact: Yes / No		Appropriate Containers: Yes / No		Coolers Intact: Yes / No		Samples Accepted: Yes / No	
Temperature: _____ °C		Thermometer ID: _____					

Anchor



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
 130 S. Trade Center Pkwy, Comroe TX 77385
 (936) 321-6060 - lab@nwdlis.com

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Anchor QEA, LLC
 Sara Flaherty
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023
 Project Comments:
 Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-13	GB-23-05-E	9:20 8/16/23	9:30 8/16/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS E 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E 4°C Hg-245,1-ELUT 4°C Lead KED D ICPMS EL 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCP-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1006-ELUT 4°C ELUT Bottle 4°C NH3-N SEAL-350,1-ELU 4°C TOC-5310 C-ELUT 4°C	
Field Remarks: H2SO4 HNO3 NaOH Other: _____							

Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name E Stewart	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation AQ	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Date/Time 8/17/23	Received for Laboratory By: (Signature) <i>POK</i>	Date/Time 8.17.23

Custody Seal: Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____
 Container Intact: Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____



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23H3257

Anchor OEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-14	GB-23-06-E	10:30 8/16/23	10:40 8/16/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS 4°C Hg-245 1-ELUT 4°C Lead KED D ICPMS EL 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCp-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle 4°C NH3-N SEAL-350.1-ELU 4°C TOC-5310 C-ELUT 4°C	
Field Remarks: H2SO4 HNO3 NaOH Other:							
Sampler (Signature) <i>E. Stewart</i>		Relinquished By (Signature)		Date/Time		Received By (Signature)	
Print Name <i>E. Stewart</i>		Relinquished By (Signature)		Date/Time		Received By (Signature)	
Affiliation <i>AQ</i>		Relinquished To Lab By (Signature) <i>E. Stewart</i>		Date/Time <i>8/17/23</i>		Received for Laboratory By (Signature) <i>202</i>	
Custody Seal: Yes / No		COC Labels Agree: Yes / No		Appropriate Volume: Yes / No		Received on Ice: Yes / No	
Container Intact: Yes / No		Appropriate Containers: Yes / No		Coolers Intact: Yes / No		Samples Accepted: Yes / No	
Anchor		Temperature: _____		Thermometer ID: _____		Date/Time <i>8.17.23</i>	



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Anchor OEA, LLC
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 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results	
23H3257-15	GB-23-07-E	8/16/23 8/16/23 11:30	8/16/23 8/16/23 11:40	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPMS 4°C Copper KED D ICPMS 4°C Hg-245 1-ELUT 4°C Lead KED D ICPMS EL 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCP-8081-ELUT 4°C PCB-8082-ELUT 4°C SVQA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle 4°C NH3-N SEAL-350.1-ELU 4°C TOC-5310 C-ELUT 4°C		
Field Remarks: H2SO4 HNO3 NaOH Other:								
Sampler (Signature) <i>E. Stewart</i>		Relinquished By: (Signature)		Received By: (Signature)				Date/Time
Print Name <i>E. Stewart</i>		Relinquished By: (Signature)		Received By: (Signature)				Date/Time
Affiliation <i>AQ</i>		Relinquished To Lab By: (Signature) <i>E. Stewart</i>		Received for Laboratory By: (Signature) <i>TCOR</i>				Date/Time <i>8.17.23</i>
Custody Seal: Yes / No		COC Labels Agree: Yes / No		Appropriate Volume: Yes / No		Temperature: _____		
Container Intact: Yes / No		Appropriate Containers: Yes / No		Coolers Intact: Yes / No		Thermometer ID: _____		

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Anchor QEA, LLC
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Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-16	GB-23-01-S	8/15/23	8/15/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 2.4°C Arsenic KED ICPMS 20.4°C Cadmium KED ICPMS 2.4°C Chromium KED ICPMS ;4°C Copper KED ICPMS 20.4°C Hg-7471 4°C Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200.4°C Silver KED ICPMS 200.4°C Zinc KED ICPMS 200.8 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 <-20°C Sub_Dioxin-Furan 4°C Sub_Grain Size-Laser 4°C NH3-N T-350.2 4°C TOC-9060 4°C	
Field Remarks: H2SO4 HNO3 NaOH Other:							
Sampler (Signature)	<i>E. Stewart</i>	Relinquished By: (Signature)		Date/Time	Received By: (Signature)	Date/Time	
Print Name	E. Stewart	Relinquished By: (Signature)		Date/Time	Received By: (Signature)	Date/Time	
Affiliation	RA	Relinquished To Lab By: (Signature)	<i>E. Stewart</i>	Date/Time	Received for Laboratory By: (Signature)	Date/Time	

Custody Seal: Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____
 Container Intact: Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____

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Anchor QEA, LLC
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 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
Field Remarks: Preservation: H2SO4 HNO3 NaOH Other:							
Sampler (Signature) <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Print Name <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Affiliation <i>DQ</i>		Relinquished To Lab By: (Signature) <i>E. Stewart</i>		Date/Time <i>8/17/23</i>		Received for Laboratory By: (Signature) <i>ROZ</i>	
Custody Seal : Yes / No		COC Labels Agree: Yes / No		Appropriate Volume: Yes / No		Received on Ice: Yes / No	
Container Intact: Yes / No		Appropriate Containers: Yes / No		Coolers Intact: Yes / No		Samples Accepted: Yes / No	
Anchor		Temperature: _____		Thermometer ID: _____		Date/Time: <i>8.17.23</i>	



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Anchor QEA, LLC
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Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Schedule Comments:

Project Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-17	GB-23-02-S	9:53 8/15/23	9:59 8/15/23	S Grab	A HDPE 250ml B HDPE 250ml C Glass 250ml D Glass 250ml E Glass 250ml w/ Teflon-lined Lid F Glass 250ml w/ Teflon-lined Lid G Glass 250ml w/ Teflon-lined Lid	Antimony KED ICPMS 2.4°C Arsenic KED ICPMS 200.4°C Cadmium KED ICPMS 2.4°C Chromium KED ICPMS : 4°C Copper KED ICPMS 200.4°C Hg-7471 Lead KED ICPMS 200.8.4°C Nickel KED ICPMS 200.4°C Silver KED ICPMS 200.4°C Zinc KED ICPMS 200.8.4°C OCP-8081 PCB-8082 SVOA-8270 TPH-1005 Sub_Dioxin-Furan Sub_Grain Size-Laser NH3-N T-350.2 TOC-9060	Other: H2SO4 HNO3 NaOH
Field Remarks:							
Sampler (Signature)		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Print Name		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Affiliation		Relinquished To Lab By: (Signature)		Date/Time		Received for Laboratory By: (Signature)	

Custody Seal : Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____ °C
 Container Intact: Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____

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Anchor OEA, LLC
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 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
Field Remarks: Preservation: H2SO4 HNO3 NaOH Other: _____							
						TS-2540 G 4°C	
Sampler (Signature) <i>E. Stewart</i> Relinquished By: (Signature) _____ Date/Time _____ Received By: (Signature) _____ Date/Time _____							
Print Name <i>E. Stewart</i> Relinquished By: (Signature) _____ Date/Time _____ Received By: (Signature) _____ Date/Time _____							
Affiliation <i>ADQ</i> Relinquished To Lab By: (Signature) <i>E. Stewart</i> Date/Time <i>8/17/23 11:3</i> Received for Laboratory By: (Signature) <i>POE</i> Date/Time <i>8.17.23 11:18</i>							
Custody Seal : Yes / No _____ COC Labels Agree: Yes / No _____ Appropriate Volume: Yes / No _____ Received on Ice: Yes / No _____ Temperature: _____ Container Intact : Yes / No _____ Appropriate Containers: Yes / No _____ Coolers Intact: Yes / No _____ Samples Accepted: Yes / No _____ Thermometer ID: _____							

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23H3257

Anchor OEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results	
23H3257-18	GB-23-03-S	10:55 8/15/23	11:09 8/15/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 2.4°C Arsenic KED ICPMS 20.4°C Cadmium KED ICPMS 2.4°C Chromium KED ICPMS 4°C Copper KED ICPMS 20.4°C Hg-7471 Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200.4°C Silver KED ICPMS 200.4°C Zinc KED ICPMS 200.8 4°C OCp-8081 PCB-8082 SVQA-8270 TPH-1005 Sub_Dioxin-Furan Sub_Grain Size-Laser NH3-N T-350.2 TOC-9060		
Field Remarks: H2SO4 HNO3 NaOH Other: _____								
Sampler (Signature) <i>E. Stewart</i>		Relinquished By: (Signature)		Received By: (Signature)				Date/Time
Print Name <i>E. Stewart</i>		Relinquished By: (Signature)		Received By: (Signature)				Date/Time
Affiliation <i>AQ</i>		Relinquished To Lab By: (Signature) <i>E. Stewart</i>		Received for Laboratory By: (Signature) <i>POZ</i>				Date/Time <i>8/17/23</i>

Custody Seal : Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____
 Container Intact : Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
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23H3257

Anchor OEA, LLC
 Sara Flaherty
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023		Schedule Comments:	
Project Comments:			

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
						TS-2540 G 4°C	

Field Remarks: _____

Preservation: H2SO4 HNO3 NaOH Other: _____

Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation <i>AD</i>	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Date/Time <i>8/17/23</i>	Received for Laboratory By: (Signature) <i>POZ</i>	Date/Time <i>8/17/23</i>

Custody Seal : Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____
 Container Intact : Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____

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CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
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23H3257

Anchor QEA, LLC
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 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Schedule Comments:

Project Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-19	GB-23-04-S	11:45 8/15/23	11:55 8/15/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 2.4°C Arsenic KED ICPMS 20.4°C Cadmium KED ICPMS 2.4°C Chromium KED ICPMS 4°C Copper KED ICPMS 20.4°C Hg-7471 Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200.4°C Silver KED ICPMS 200.4°C Zinc KED ICPMS 200.8 4°C OCP-8081 PCB-8082 SVOA-8270 TPH-1005 Sub_Dioxin-Furan Sub_Grain Size-Laser NH3-N T-350.2 TOC-9060	
Field Remarks: H2SO4 HNO3 NaOH Other:							
Sampler (Signature): <i>S. Flaherty</i>		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Print Name: E. Stewart		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Affiliation: AQ		Relinquished To Lab By: (Signature)		Date/Time: 8/17/23		Received for Laboratory By: (Signature): <i>R. O'Neil</i>	

Custody Seal: Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____
 Container Intact: Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____

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CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
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Anchor OEA, LLC
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Project Name : Galveston Bay 2023
 Project Comments:
 Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
Field Remarks: Preservation: H2SO4 HNO3 NaOH Other: _____							
Sampler (Signature) <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Print Name <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Affiliation <i>AQ</i>		Relinquished To Lab By: (Signature) <i>E. Stewart</i>		Date/Time <i>8/17/23</i>		Received for Laboratory By: (Signature) <i>ROR</i>	
Custody Seal: Yes / No		COC Labels Agree: Yes / No		Appropriate Volume: Yes / No		Received on Ice: Yes / No	
Container Intact: Yes / No		Appropriate Containers: Yes / No		Coolers Intact: Yes / No		Samples Accepted: Yes / No	
Temperature: _____ °C		Thermometer ID: _____		Date/Time: <i>8.19.23</i>			



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Anchor OEA, LLC
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Project Name : Galveston Bay 2023

Schedule Comments:

Project Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-20	GB-23-05-S	9:26 8/16/23	9:30 8/16/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 2.4°C Arsenic KED ICPMS 200.4°C Cadmium KED ICPMS 2.4°C Chromium KED ICPMS .4°C Copper KED ICPMS 200.4°C Hg-7471 Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200.4°C Silver KED ICPMS 200.4°C Zinc KED ICPMS 200.8 4°C OCp-8081 PCB-8082 SVOA-8270 TPH-1005 Sub_Dioxin-Furan Sub_Grain Size-Laser NH3-N T-350.2 TOC-9060	
<p>Field Remarks: H2SO4 HNO3 NaOH Other: _____</p> <p>Write ID) _____</p>							
Sampler (Signature)		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Print Name		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Affiliation		Relinquished To Lab By: (Signature)		Date/Time		Received for Laboratory By: (Signature)	

Custody Seal : Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____ °C
 Container Intact : Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____



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Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
Field Remarks: Preservation: H2SO4 HNO3 NaOH Other:							
Sampler (Signature) <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Print Name <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Affiliation <i>AQ</i>		Relinquished To Lab By: (Signature) <i>E. Stewart</i>		Date/Time <i>8/17/23</i>		Received for Laboratory By: (Signature) <i>REOR</i>	
Custody Seal: Yes / No		COC Labels Agree: Yes / No		Appropriate Volume: Yes / No		Received on Ice: Yes / No	
Container Intact: Yes / No		Appropriate Containers: Yes / No		Coolers Intact: Yes / No		Samples Accepted: Yes / No	
Anchor		Temperature: _____		Thermometer ID: _____		Date/Time <i>8.17.23</i>	



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 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Schedule Comments:

Project Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results	
23H3257-21	GB-23-06-S	1030 8/16/23	1040 8/16/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 2.4°C Arsenic KED ICPMS 20.4°C Cadmium KED ICPMS 2.4°C Chromium KED ICPMS 4°C Copper KED ICPMS 20.4°C Hg-7471 4°C Lead KED ICPMS 200.8.4°C Nickel KED ICPMS 200.4°C Silver KED ICPMS 200.4°C Zinc KED ICPMS 200.8.4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 <-20°C Sub_Dioxin-Furan 4°C Sub_Grain Size-Laser 4°C NH3-N T-350.2 4°C TOC-9060 4°C	Other: _____	
Field Remarks: _____								
Sampler (Signature) <i>E Sturt</i>		Relinquished By: (Signature)		Date/Time				Received By: (Signature)
Print Name <i>E. Sturt</i>		Relinquished By: (Signature)		Date/Time				Received By: (Signature)
Affiliation <i>AD</i>		Relinquished To Lab By: (Signature) <i>E Sturt</i>		Date/Time <i>8/17/23</i>				Received for Laboratory By: (Signature) <i>FOR</i>

Custody Seal : Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____ °C
 Container Intact : Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____

Anchor



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
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Anchor QEA, LLC
 Sara Flaherty
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
Field Remarks: _____ Preservation: H2SO4 _____ HNO3 _____ NaOH _____ Other: _____ (Circle and Write ID)							
Sampler (Signature) <i>E. Stewart</i>		Relinquished By: (Signature)		Received By: (Signature)			
Print Name <i>E. Stewart</i>		Relinquished By: (Signature)		Received By: (Signature)			
Affiliation <i>AQ</i>		Relinquished To Lab By: (Signature) <i>E. Stewart</i>		Date/Time <i>8/17/23</i>		Received for Laboratory By: (Signature) <i>POZ</i>	
Custody Seal: Yes / No		COC Labels Agree: Yes / No		Appropriate Volume: Yes / No		Received on Ice: Yes / No	
Container Intact: Yes / No		Appropriate Containers: Yes / No		Coolers Intact: Yes / No		Samples Accepted: Yes / No	
Anchor				Temperature: _____		Thermometer ID: _____	



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Anchor QEA, LLC
 Sara Flaherty
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-22	GB-23-07-S	11:30 8/16/23	11:46 8/16/23	S Grab	A HDPE 250ml B HDPE 250ml C Glass 250ml D Glass 250ml E Glass 250ml w/ Teflon-lined Lid F Glass 250ml w/ Teflon-lined Lid G Glass 250ml w/ Teflon-lined Lid	Antimony KED ICPMS 2.4°C Arsenic KED ICPMS 200.4°C Cadmium KED ICPMS 2.4°C Chromium KED ICPMS .4°C Copper KED ICPMS 200.4°C Hg-7471 Lead KED ICPMS 200.8.4°C Nickel KED ICPMS 200.4°C Silver KED ICPMS 200.4.4°C Zinc KED ICPMS 200.8.4°C OCP-8081 PCB-8082 SV/OA-8270 TPH-1005 Sub_Dioxin-Furan Sub_Grain Size-Laser NH3-N T-350.2 TOC-9060	
Field Remarks: H2SO4 HNO3 NaOH Other:							
Sampler (Signature) <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Print Name <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Affiliation <i>AD</i>		Relinquished To Lab By: (Signature) <i>E. Stewart</i>		Date/Time <i>8/17/23</i>		Received for Laboratory By: (Signature) <i>RJR</i>	

Custody Seal : Yes / No
 Container Intact : Yes / No

COC Labels Agree: Yes / No
 Appropriate Containers: Yes / No

Appropriate Volume: Yes / No
 Coders Intact: Yes / No

Received on Ice: Yes / No
 Samples Accepted: Yes / No

Temperature: _____
 Thermometer ID: _____

Anchor



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Anchor OEA, LLC
 Sara Flaherty
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
Field Remarks: _____							
Sampler (Signature) <i>E. Stewart</i>					Relinquished By: (Signature)	Received By: (Signature)	Date/Time
Print Name <i>E. Stewart</i>					Relinquished By: (Signature)	Received By: (Signature)	Date/Time
Affiliation <i>PD</i>					Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Received for Laboratory By: (Signature) <i>ROR</i>	Date/Time <i>8/11/18</i>
Custody Seal : Yes / No					COC Labels Agree: Yes / No	Appropriate Volume: Yes / No	Received on Ice: Yes / No
Container Intact: Yes / No					Appropriate Containers: Yes / No	Coolers Intact: Yes / No	Samples Accepted: Yes / No
Anchor					Temperature: _____	Thermometer ID: _____	_____ °C

Preservation: H2SO4 HNO3 NaOH Other: _____
 (Circle and Write ID)



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COC updated by CDolphin
 10/3/2023
 All sample IDs updated from previous

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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937	Project Name : Galveston Bay 2023	Schedule Comments:
Project Comments:		

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-01	CPC-EQ.BLK CPC-EQ.BLK-230815 CD	1420 8/15/23	8/15/23 1420	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPMS HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200 HNO3	

Field Remarks: _____ Preservation: H2SO4 HNO3 NaOH Other: _____
 (Circle and Write ID) **2308075**

Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Pnnt Name <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation <i>AQ</i>	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Date/Time <i>8/17/ 1118</i>	Received for Laboratory By: (Signature) <i>ROB</i>	Date/Time <i>8.17.23 1118</i>

Custody Seal : Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____ °C
 Container Intact : Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: 210556832



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Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-02	SW-230815 CPC-01-SW-230815	8:27 8/15/23	8:38 8/15/23	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass 250mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl pH<2 O Glass VOA 40mL HCl pH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200. HNO3 OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Pref 4°C TOC-5310 C H2SO4 4°C	

Field Remarks:

Preservation: H2SO4
Circle and Write ID) 2108097

Other: NaOH

HNO3 2308097

Sampler (Signature) <i>E. Steward</i>	Relinquished By: (Signature)	Received By: (Signature)	Date/Time
Print Name E. Steward	Relinquished By: (Signature)	Received By: (Signature)	Date/Time
Affiliation AQ	Relinquished To Lab By: (Signature) <i>E. Steward</i>	Received for Laboratory By: (Signature) ROR	Date/Time 8/17/23

Custody Seal: Yes / No

Appropriate Containers: Yes / No

COC Labels Agree: Yes / No

Appropriate Volume: Yes / No

Received on Ice: Yes / No

Temperature: °C

Containers Intact: Yes / No

Coolers Intact: Yes / No

Samples Accepted: Yes / No

Thermometer ID:

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wko_NWDLS_COC2_nobate_LS version 4: 02/21/2021



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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:			
Project Comments:							
Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
					P Glass VOA 40mL HCl pH<2 Q Amber Glass 1L w/ Teflon-lined Lid R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid	HNO3 NAOH	
Field Remarks:							
Preservation: H2SO4 Circle and Write ID		Other:					
Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time			
Print Name E. Stewart	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time			
Affiliation AQ	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Date/Time 8/17/23 1118	Received for Laboratory By: (Signature) RQZ	Date/Time 8-17-23 1113			
Custody Seal: Yes / No	COC Labels Agree: Yes / No	Appropriate Volume: Yes / No	Received on Ice: Yes / No	Temperature: °C			
Container Intact: Yes / No	Appropriate Containers: Yes / No	Coolers Intact: Yes / No	Samples Accepted: Yes / No	Thermometer ID:			



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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937	Project Name : Galveston Bay 2023	Schedule Comments:
Project Comments:		

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-03	CPC-02-SW-230815 CPC-02-SW-230815	9:33 8/15/23	9:43 8/15/23	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass 250mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl O Glass VOA 40mL HCl pH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20H HNO3 Zinc KED D ICPMS 200. HNO3 4°C 4°C 4°C 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Pref 4°C TOC-5310 C H2SO4 4°C	Type text here

Field Remarks: H2SO4 NaOH
 Circle and Write ID) 2108097 HNO3 230815
 Other: _____

Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Received By: (Signature)	Date/Time
Print Name <i>E. Stewart</i>	Relinquished By: (Signature)	Received By: (Signature)	Date/Time
Affiliation <i>AQ</i>	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Received for Laboratory By: (Signature) <i>ROZ</i>	Date/Time <i>8/17/23</i>

Custody Seal: Yes / No
 Appropriate Volume: Yes / No
 Coolers Intact: Yes / No
 Samples Accepted: Yes / No
 Thermometer ID: _____
 Temperature: _____ °C

Anchor



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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:			
Project Comments:							
Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
					P Glass VOA 40mL HCl pH<2 Q Amber Glass 1L w/ Teflon-lined Lid R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid	HNO3 NaOH H2SO4 Other:	
Field Remarks:							
Sampler (Signature)	<i>E. Stewart</i>	Relinquished By: (Signature)				Received By: (Signature)	Date/Time
Print Name	E. Stewart	Relinquished By: (Signature)				Received By: (Signature)	Date/Time
Affiliation	AQ	Relinquished To Lab By: (Signature)	<i>E. Stewart</i>			Received for Laboratory By: (Signature)	Date/Time 3.14.23 118 °C
Custody Seal :	Yes / No	COC Labels Agree:	Yes / No	Appropriate Volume:	Yes / No	Received On Ice:	Yes / No
Container Intact :	Yes / No	Appropriate Containers:	Yes / No	Coolers Intact:	Yes / No	Samples Accepted:	Yes / No
Thermometer ID: _____							



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Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-04	CPC-03-SW-230815 CPC-03-SW-230815	10:34 8/15/23	10:44 8/15/23	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass 250mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl pH<2 O Glass VOA 40mL HCl pH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPMS HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200 HNO3 OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Pref 4°C TOC-5310 C H2SO4 4°C	

Field Remarks:

Preservation: H2SO4 NaOH
 Circle and Write ID) 2108097 2308075

Sampler (Signature): *E. Stewart* Date/Time: _____
 Print Name: E. Stewart Date/Time: _____
 Affiliation: AQ Date/Time: 8/17/23
 Relinquished To Lab By: (Signature) *E. Stewart* Date/Time: 8.17.23
 Relinquished By: (Signature) _____ Date/Time: _____
 Relinquished By: (Signature) _____ Date/Time: _____
 Received for Laboratory By: (Signature) _____ Date/Time: 8.17.23

Custody Seal: Yes / No
 Appropriate Containers: Yes / No
 Appropriate Volume: Yes / No
 Coolers Intact: Yes / No
 Received on Site: Yes / No
 Samples Accepted: Yes / No
 Thermometer ID: _____
 Temperature: _____ °C

Anchor



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Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
					P Glass VOA 40mL HCl pH<2 Q Amber Glass 1L w/ Teflon-lined Lid R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid	HNO3 NaOH Other:	

Field Remarks:

Preservation: H2SO4
(Circle and Write ID)

Relinquished By: (Signature) *E. Stewart* Date/Time
 Relinquished By: (Signature) *E. Stewart* Date/Time
 Relinquished To Lab By: (Signature) *E. Stewart* Date/Time 8/17/23

Received By: (Signature) Date/Time
 Received By: (Signature) Date/Time
 Received for Laboratory By: (Signature) *FOR* Date/Time 8-17-23

COC Labels Agree: Yes / No
 Appropriate Volumes: Yes / No
 Appropriate Containers: Yes / No
 Coolers Intact: Yes / No
 Received on Ice: Yes / No
 Samples Accepted: Yes / No
 Temperature: °C
 Thermometer ID:

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Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-05	CPC-04-SW-230815 CPC-04-SW-230815	11:45 8/15/23	11:55 8/15/23	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass 250mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl pH<2 O Glass VOA 40mL HCl pH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPME HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 HNO3 Hg-245.1 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200. HNO3 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Pref 4°C TOC-5310 C H2SO4 4°C	

Field Remarks:

Preservation: H2SO4 HNO3 NaOH
Circle and Write ID) 2108097 230825

Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name E. Stewart	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation AQ	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Date/Time 8/17/23 1118	Received for Laboratory By: (Signature) <i>RCR</i>	Date/Time 8.17.23 1118

Custody Seal: Yes / No
Appropriate Containers: Yes / No
Coolers Intact: Yes / No
COC Labels Agree: Yes / No
Appropriate Volume: Yes / No
Received on Ice: Yes / No
Samples Accepted: Yes / No
Temperature: _____
Thermometer ID: _____



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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:			
Project Comments:		Project Comments:					
Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
					P Glass VOA 40mL HCl pH<2 Q Amber Glass 1L w/ Teflon-lined Lid R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid	HNO3 NaOH Other:	
Field Remarks:							
Preservation: H2SO4 Circle and Write ID)							
Sampler (Signature)	<i>E. Stewart</i>	Relinquished By: (Signature)		Date/Time	Received By: (Signature)	Date/Time	
Print Name	<i>E. Stewart</i>	Relinquished By: (Signature)		Date/Time	Received By: (Signature)	Date/Time	
Affiliation	<i>AQ</i>	Relinquished To Lab By: (Signature)	<i>E. Stewart</i>	Date/Time	Received for Laboratory By: (Signature)	Date/Time	<i>8/17/23</i>
Custody Seal :	Yes / No	COC Labels Agree:	Yes / No	Appropriate Volume:	Yes / No	Received on Ice:	Yes / No
Container Intact :	Yes / No	Appropriate Containers:	Yes / No	Coolers Intact:	Yes / No	Samples Accepted:	Yes / No
						Temperature:	Thermometer ID:



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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:	
Project Comments:					

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-06	CPC-05-SW-230816 CPC-05-SW-230816	8:50 8/16/23	8:57 8/16/23	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass 250mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl pH<2 O Glass VOA 40mL HCl pH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200. HNO3 OCp-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Pref 4°C TOC-5310 C H2SO4 4°C	

Field Remarks: Preservation: H2SO4 HNO3 NaOH Other: _____
 Circle and Write ID) 2108097 2308075

Sampler (Signature) E. Stewart	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name E. Stewart	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation AQ	Relinquished To Lab By: (Signature) E. Stewart	Date/Time 8/17/23	Received for Laboratory By: (Signature) BOR	Date/Time 8.17.23

Custody Seal: Yes / No
 Appropriate Containers: Yes / No
 Appropriate Volume: Yes / No
 Coolers Intact: Yes / No
 Received on Ice: Yes / No
 Samples Accepted: Yes / No
 Thermometer ID: _____
 Temperature: _____ °C

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Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
					P Glass VOA 40mL HCl pH<2 Q Amber Glass 1L w/ Teflon-lined Lid R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid	H2SO4 HNO3 NaOH Other:	

Field Remarks:

Preservation: H2SO4
Circle and Write ID)

Sampler (Signature): *E. Stewart* Received By: (Signature) _____ Date/Time _____
 Relinquished By: (Signature) _____ Date/Time _____
 Print Name: *E. Stewart* Received By: (Signature) _____ Date/Time _____
 Affiliation: *AQ* Received for Laboratory By: (Signature) *POF* Date/Time: *8/17/23 11:18* *8/17/23*

COC Labels Agree: Yes / No _____
 Appropriate Volume: Yes / No _____
 Appropriate Containers: Yes / No _____
 Coolers Intact: Yes / No _____
 Received on Ice: Yes / No _____
 Samples Accepted: Yes / No _____
 Thermometer ID: _____
 Temperature: _____ °C



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
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(936) 321-6060 - lab@nwdls.com

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Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-07	CPC-06-SW-230816 CPC-06-SW-230816	10:05 8/16/23	10:11 8/16/23	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass 250mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl pH<2 O Glass VOA 40mL HCl pH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200. HNO3 OCp-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Pref. 4°C TOC-5310 C H2SO4 4°C	

Field Remarks:

Preservation: H2SO4 HNO3 NaOH
Circle and Write ID) 2108097 2308075

Sampler (Signature): E. Stewart
Print Name: E. Stewart
Affiliation: AQ

Relinquished By: (Signature)
Relinquished By: (Signature)
Relinquished To Lab By: (Signature): E. Stewart

Date/Time (Received By: (Signature))
Date/Time (Received By: (Signature))
Date/Time (Received for Laboratory By: (Signature))

Custody Seal : Yes / No
Container Intact : Yes / No
Appropriate Volume: Yes / No
Coolers Intact: Yes / No
Appropriate Containers: Yes / No
Received on Ice: Yes / No
Samples Accepted: Yes / No
Temperature: °C
Thermometer ID:

Anchor



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Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
					P Glass VOA 40mL HCl pH<2 Q Amber Glass 1L w/ Teflon-lined Lid R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid		

Field Remarks:

Preservation: H2SO4 HNO3 NaOH Other: _____

Circle and Write ID) _____

Received By: (Signature) _____ Date/Time _____

Received By: (Signature) _____ Date/Time _____

Received for Laboratory By: (Signature) *FOR* Date/Time *8/17/23 11:18*

Relinquished By: (Signature) _____ Date/Time _____

Relinquished To Lab By: (Signature) *E. Stewart* Date/Time *8/17/23 11:18*

Affiliation *AQ*

COC Labels Agree: Yes / No _____

Appropriate Volume: Yes / No _____

Appropriate Containers: Yes / No _____

Coolers Intact: Yes / No _____

Samples Accepted: Yes / No _____

Thermometer ID: _____

Temperature: _____ °C



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Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-08	CPC-07-SW-230816	11:10 8/16/23	11:15 8/16/23	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass 250mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl pH<2 O Glass VOA 40mL HCl pH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200 HNO3 4°C 4°C 4°C 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Pref 4°C TOC-5310 C H2SO4 4°C	

Field Remarks:

Preservation: (Circle and Write ID) H2SO4 208 04 7

Other: NaOH HNO3 2308 07 5

Sampler (Signature): E. Stewart
Print Name: E. Stewart
Affiliation: AQ

Relinquished To Lab By: (Signature) E. Stewart
Relinquished By: (Signature) [Signature]

Received for Laboratory By: (Signature) [Signature]

Date/Time: 8/17/23
Date/Time: 8.17.23

Custody Seal: Yes / No
Appropriate Containers: Yes / No
Coolers Intact: Yes / No
Appropriate Volume: Yes / No
Coolers Intact: Yes / No

Temperature: °C
Thermometer ID:

Anchor



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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:	
Project Comments:					

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
					P Glass VOA 40mL HCl pHK2 Q Amber Glass 1L w/ Teflon-lined Lid R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid	H2SO4 HNO3 NaOH Other:	

Field Remarks:

Preservation: H2SO4
Circle and Write ID)

Relinquished By: (Signature) *E. Stewart* Date/Time
 Relinquished By: (Signature) *E. Stewart* Date/Time
 Relinquished To Lab By: (Signature) *E. Stewart* Date/Time *8/17/23*

Received By: (Signature) Date/Time
 Received By: (Signature) Date/Time
 Received for Laboratory By: (Signature) *POE* Date/Time *8.17.23*

COC Labels Agree: Yes / No
 Appropriate Volume: Yes / No
 Appropriate Containers: Yes / No
 Coolers Intact: Yes / No
 Received on Site: Yes / No
 Samples Accepted: Yes / No
 Thermometer ID: _____
 Temperature: _____ °C

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Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-09	CPC-01-SET-230815 CPC-01-SET-230815	8:50 8/15/23	8:58 8/15/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS E 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E 4°C Hg-245.1-ELUT 4°C Lead KED D ICPMS ELL 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCP-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle NH3-N SEAL-350.1-ELU 4°C TOC-5310 C-ELUT 4°C	

Field Remarks: Preservation: H2SO4 HNO3 NaOH
(Circle and Write ID)

Sampler (Signature)	E. Stewart	Relinquished By: (Signature)	Received By: (Signature)	Date/Time
Print Name	E. Stewart	Relinquished By: (Signature)	Received By: (Signature)	Date/Time
Affiliation	AG	Relinquished To Lab By: (Signature)	Received for Laboratory By: (Signature)	Date/Time

COC Labels Agree: Yes / No
Appropriate Volume: Yes / No
Appropriate Containers: Yes / No
Coolers Intact: Yes / No
Received on site: Yes / No
Samples Accepted: Yes / No
Thermometer ID: _____
Temperature: _____ °C



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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:			
Project Comments:							
Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-10	50-230214 CPC-02-SET-230815	9:53 8/15/23	9:59 8/15/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS E 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E 4°C Hg-245.1-ELUT 4°C Lead KED D ICPMS ELI 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCP-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle 4°C NH3-N SEAL-350.1-ELU 4°C TOC-5310 C-ELUT 4°C	
Field Remarks: Preservation: H2SO4 HNO3 NaOH Circle and Write ID							
Sampler (Signature)	<i>C. Stewart</i>	Relinquished By: (Signature)		Date/Time	Received By: (Signature)	Date/Time	
Print Name	<i>C. Stewart</i>	Relinquished By: (Signature)		Date/Time	Received By: (Signature)	Date/Time	
Affiliation	<i>AQ</i>	Relinquished To Lab By: (Signature)	<i>C. Stewart</i>	Date/Time	Received for Laboratory By: (Signature)	Date/Time	<i>8.17.23</i> <i>8.17.23</i>
Custody Seal : Yes / No	Yes / No	COC Labels Agree: Yes / No	Yes / No	Appropriate Volume: Yes / No	Received on Ice: Yes / No	Temperature: _____ °C	
Container Intact: Yes / No	Yes / No	Appropriate Containers: Yes / No	Yes / No	Coolers Intact: Yes / No	Samples Accepted: Yes / No	Thermometer ID: _____	



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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:	
Project Comments:					

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-11	000000 CPC-03-SET-230815	10:58 8/15/23	11:09 8/15/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS E 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E 4°C Hg-245,1-ELUT 4°C Lead KED D ICPMS ELI 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCP-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle 4°C NH3-N SEAL-350.1-ELU 4°C TOC-5310 C-ELUT 4°C	

Field Remarks: HNO3 NaOH
(Circle and Write ID)

Preservation: H2SO4

Sampler (Signature) <i>E. Stewart</i>	Date/Time 8/17/23	Received By: (Signature)	Date/Time
Print Name E. Stewart		Received By: (Signature)	Date/Time
Affiliation AQ		Received for Laboratory By: (Signature)	Date/Time 8.17.23

Custody Seal: Yes / No
Appropriate Containers: Yes / No
Coolers Intact: Yes / No
Received/On Ice: Yes / No
Samples Accepted: Yes / No
Thermometer ID: _____
Temperature: _____ °C

Anchor

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CHAIN OF CUSTODY RECORD

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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:	
Project Comments:					

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-12	CPC-04-SET-230815 CPC-04-SET-230815	11:45 8/15/23	11:55 8/15/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS E 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E 4°C Hg-245.1-ELUT 4°C Lead KED D ICPMS ELI 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCB-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle 4°C NH3-N SEAL-350.1-ELU 4°C TOC-5310 C-ELUT 4°C	

Field Remarks: Preservation: H2SO4 HNO3 NaOH
Circle and Write ID)

Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation <i>AQ</i>	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Date/Time <i>8/17/23</i>	Received for Laboratory By: (Signature) <i>FOR</i>	Date/Time <i>8/17/23</i>

Custody Seal: Yes / No
Appropriate Containers: Yes / No
Coolers Intact: Yes / No
Appropriate Volume: Yes / No
Received on Ice: Yes / No
Temperature: _____ °C
Thermometer ID: _____

Anchor

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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:	
Project Comments:					

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-13	CPC-05-SET-230816 CPC-05-SET-230816	9:20 8/16/23	9:30 8/16/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS E 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E 4°C Hg-245.1-ELUT 4°C Lead KED D ICPMS EL 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCP-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle NH3-N SEAL-350.1-ELU 4°C TOC-5310 C-ELUT 4°C	

Field Remarks: H2SO4 HNO3 NaOH Other: _____
(Circle and Write ID)

Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name E. Stewart	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation AQ	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Date/Time 8/17/23	Received for Laboratory By: (Signature) <i>POB</i>	Date/Time 8.17.23

COC Labels Agree: Yes / No
Appropriate Volume: Yes / No
Coolers Intact: Yes / No
Received on Ice: Yes / No
Temperature: _____ °C
Samples Accepted: Yes / No
Thermometer ID: _____



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Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-14	CPC-06-SET-230816 CPC-06-SET-230816	10:30 8/16/23	10:40 8/16/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS 4°C Hg-245.1-ELUT 4°C Lead KED D ICPMS ELI 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCp-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle 4°C NH3-N SEAL-350.1-ELU 4°C TOC-5310 C-ELUT 4°C	

Field Remarks:

Preservation: H2SO4
Circle and Write ID)

HNO3 NaOH Other:

Sampler (Signature) *E. Stewart* Date/Time Received By: (Signature) Date/Time

Print Name *E. Stewart* Date/Time Received By: (Signature) Date/Time

Affiliation *AQ* Date/Time *8/17/23* Received for Laboratory By: (Signature) *ROR* Date/Time *8.17.23*

COC Labels Agree: Yes / No
Appropriate Containers: Yes / No
Coolers Intact: Yes / No
Appropriate Volume: Yes / No
Received on Ice: Yes / No
Samples Accepted: Yes / No
Thermometer ID: _____
Temperature: _____ °C

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Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-15	OB-2007-E CPC-07-SET-230816	11:30 11:30 8/16/23	11:40 11:40 8/16/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS E 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E 4°C Hg-245.1-ELUT 4°C Lead KED D ICPMS EL 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCP-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle NH3-N SEAL-350.1-ELU 4°C TOC-5310 C-ELUT 4°C	

Field Remarks:

Preservation: H2SO4 HNO3 NaOH Other: _____

Circle and Write ID

Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation <i>AQ</i>	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Date/Time <i>8/17/23</i>	Received for Laboratory By: (Signature) <i>RCR</i>	Date/Time <i>8.17.23</i>

COC Labels Agree: Yes / No
Appropriate Volume: Yes / No
Appropriate Containers: Yes / No
Coolers Intact: Yes / No
Received on Ice: Yes / No
Samples Accepted: Yes / No
Thermometer ID: _____



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Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-16	00-23-0116 CPC-01-SC-230815	850 8/15/23	858 8/15/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 24°C Arsenic KED ICPMS 20/4°C Cadmium KED ICPMS 24°C Chromium KED ICPMS: 4°C Copper KED ICPMS 20/4°C Hg-7471 4°C Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200.4°C Silver KED ICPMS 200.4 4°C Zinc KED ICPMS 200.8 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 <20°C Sub_Dioxin-Furan 4°C Sub_Grain Size-Laser 4°C NH3-N T-350.2 4°C TOC-9060 4°C	

Field Remarks: Preservation: H2SO4 HNO3 NaOH Other: _____
(Circle and Write ID)

Sampler (Signature) *E. Stewart* Received By: (Signature) _____ Date/Time _____
Print Name *E. Stewart* Relinquished By: (Signature) _____ Date/Time _____
Affiliation *AQ* Relinquished To Lab By: (Signature) *E. Stewart* Received for Laboratory By: (Signature) *POZ* Date/Time *8/17/23 1118*

Custody Seal: Yes / No _____ COC Labels Agree: Yes / No _____ Appropriate Volume: Yes / No _____ Received on Ice: Yes / No _____ Temperature: _____ °C
Container Intact: Yes / No _____ Appropriate Containers: Yes / No _____ Coolers Intact: Yes / No _____ Samples Accepted: Yes / No _____ Thermometer ID: _____



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Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
						TS-2540 G 4°C	

Field Remarks: H2SO4 HNO3 NaOH Other:

Preservation: (Circle and Write ID)

Sampler (Signature) *E. Stewart* Date/Time Relinquished By: (Signature) Received By: (Signature) Date/Time

Print Name *E. Stewart* Date/Time Relinquished By: (Signature) Received By: (Signature) Date/Time

Affiliation *AQ* Date/Time Relinquished To Lab By: (Signature) Received for Laboratory By: (Signature) Date/Time
8/17/23 *POB* *8.17.23*

Custody Seal: Yes/No CQC-Labels Agree: Yes/No Appropriate Volume: Yes/No Received on Ice: Yes/No Temperature: °C

Container Intact: Yes/No Appropriate Containers: Yes/No Coolers Intact: Yes/No Samples Accepted: Yes/No Thermometer ID: _____



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe TX 77385
(936) 321-6050 - lab@nwdls.com

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Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-17	69-23-02-01 CPC-02-SC-230815	9:53 8/15/23	9:59 8/15/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 2 4°C Arsenic KED ICPMS 200 4°C Cadmium KED ICPMS 2 4°C Chromium KED ICPMS : 4°C Copper KED ICPMS 200 4°C Hg-7471 4°C Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200. 4°C Silver KED ICPMS 200.4 4°C Zinc KED ICPMS 200.8 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 <-20°C Sub_Dioxin-Furan 4°C Sub_Grain Size-Laser 4°C NH3-N T-350.2 4°C TOC-9060 4°C	

Field Remarks:

Preservation: H2SO4 HNO3 NaOH Other:

(Circle and Write ID)

Sampler (Signature) *E. Stewart* Received By: (Signature) _____ Date/Time _____

Print Name *E. Stewart* Received By: (Signature) _____ Date/Time _____

Affiliation *AQ* Received for Laboratory By: (Signature) *POE* Date/Time *8.17.23*

Custody Seal : Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____ °C

Container Intact : Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____

Anchor

wko_NWDLS_COC2_noDate_LS version 4: 02/21/2021



CHAIN OF CUSTODY RECORD

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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:			
Project Comments:							
Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
						TS-2540 G 4°C	
Field Remarks:							
Preservation: H2SO4 HNO3 NaOH Other:							
(Circle and Write ID)							
Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time			
Print Name <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time			
Affiliation <i>AQ</i>	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Date/Time <i>8/17/23</i>	Received for Laboratory By: (Signature) <i>POE</i>	Date/Time <i>8.17.23</i>			
Custody Seal: Yes / No	COC Labels Agree: Yes / No	Appropriate Volume: Yes / No	Received on Ice: Yes / No	Temperature: _____			
Container Intact: Yes / No	Appropriate Containers: Yes / No	Coolers Intact: Yes / No	Samples Accepted: Yes / No	Thermometer ID: _____			



CHAIN OF CUSTODY RECORD

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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:	
Project Comments:					

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-18	00-00-00 CPC-03-SC-230815	10:58 8/15/23	11:09 8/15/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 2.4°C Arsenic KED ICPMS 20.4°C Cadmium KED ICPMS 2.4°C Chromium KED ICPMS :4°C Copper KED ICPMS 20.4°C Hg-7471 4°C Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200.4°C Silver KED ICPMS 200.4 4°C Zinc KED ICPMS 200.8 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 <-20°C Sub_Dioxin-Furan 4°C Sub_Grain Size-Laser 4°C NH3-N T-350.2 4°C TOC-9060 4°C	

Field Remarks: Preservation: H2SO4 HNO3 NaOH Other: _____
(Circle and Write ID)

Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation <i>AQ</i>	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Date/Time <i>8/17/23</i>	Received for Laboratory By: (Signature) <i>RUC</i>	Date/Time <i>8/17/23</i>

Custody Seal : Yes / No
Appropriate Containers: Yes / No
Coolers Intact: Yes / No
Appropriate Volume: Yes / No
Received on Ice: Yes / No
Temperature: _____ °C
Samples Accepted: Yes / No
Thermometer ID: _____



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Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
						TS-2640 G 4°C	
Field Remarks: Preservation: H2SO4 HNO3 NaOH Other:							
Sampler (Signature)	<i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time		
Print Name	E. Stewart	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time		
Affiliation	AQ	Relinquished To Lab By: (Signature)	Date/Time <i>8/17/23</i>	Received for Laboratory By: (Signature)	Date/Time <i>8.17.23</i>		

COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on site: Yes / No Temperature: _____

Container Intact: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____



CHAIN OF CUSTODY RECORD

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Anchor QEA, LLC
 Sara Flaherty
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-19	CPC-04-SC-230815 CPC-04-SC-230815	11:45 8/15/23	11:55 8/15/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 24°C Arsenic KED ICPMS 20(4°C Cadmium KED ICPMS 24°C Chromium KED ICPMS : 4°C Copper KED ICPMS 20(4°C Hg-7471 4°C Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200.4°C Silver KED ICPMS 200.4°C Zinc KED ICPMS 200.8 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 <-20°C Sub_Dioxin-Furan 4°C Sub_Grain Size-Laser 4°C NH3-N T-350.2 4°C TOC-9060 4°C	

Field Remarks:

Preservation: H2SO4
(Circle and Write ID)

HNO3 NAOH Other:

Sampler (Signature)	Relinquished By: (Signature)	Received By: (Signature)	Date/Time
Print Name E. Stewart	Relinquished By: (Signature)	Received By: (Signature)	Date/Time
Affiliation AQ	Relinquished To Lab By: (Signature) E. Stewart	Received for Laboratory By: (Signature) ROR	Date/Time 8/17/23

COC Labels Agree: Yes / No

Appropriate Volume: Yes / No

Appropriate Containers: Yes / No

Received On Ice: Yes / No

Temperature: _____ °C

Thermometer ID: _____

Coolers Intact: Yes / No

Samples Accepted: Yes / No



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North Water District Laboratory Services
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23H3257

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Schedule Comments:

Project Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
						TS-2540 G 4°C	

Field Remarks: H2SO4 HNO3 NaOH Other:

Preservation: (Circle and Write ID)

Received By: (Signature) Date/Time

Received By: (Signature) Date/Time

Received for Laboratory By: (Signature) Date/Time

Received By: (Signature) Date/Time

Received By: (Signature) Date/Time

Received for Laboratory By: (Signature) Date/Time

COC Labels Agree: Yes / No

Appropriate Volume: Yes / No

Appropriate Containers: Yes / No

Coolers Intact: Yes / No

Samples Accepted: Yes / No

Temperature: °C

Thermometer ID:



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North Water District Laboratory Services
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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:	
Project Comments:					

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-20	05-23-00-00 CPC-05-SC-230816	9:20 8/16/23	9:30 8/16/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 24°C Arsenic KED ICPMS 20(4°C Cadmium KED ICPMS 24°C Chromium KED ICPMS: 4°C Copper KED ICPMS 20(4°C Hg-7471 4°C Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200.4°C Silver KED ICPMS 200.4 4°C Zinc KED ICPMS 200.8 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 <20°C Sub_Dioxin-Furan 4°C Sub_Grain Size-Laser 4°C NH3-N T-350.2 4°C TOC-9060 4°C	

Field Remarks: HNO3 H2SO4 NaOH Other: _____
(Circle and Write ID)

Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation <i>AQ</i>	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Date/Time <i>8/17/23</i>	Received by Laboratory By: (Signature) <i>FOR</i>	Date/Time <i>8-17-23</i>

Custody Seal: Yes / No Yes No COC Labels Agree: Yes / No Yes No Appropriate Volume: Yes / No Yes No Received on-site: Yes / No Yes No Temperature: _____ °C

Container Intact: Yes / No Yes No Coolers Intact: Yes / No Yes No Samples Accepted: Yes / No Yes No Thermometer ID: _____

Anchor



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Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
						TS-2540 G 4°C	
Field Remarks: Preservation: H2SO4 HNO3 NaOH Other:							
Sampler (Signature)	<i>E. Stewart</i>	Relinquished By: (Signature)			Date/Time	Received By: (Signature)	Date/Time
Print Name	<i>E. Stewart</i>	Relinquished By: (Signature)			Date/Time	Received By: (Signature)	Date/Time
Affiliation	<i>AQ</i>	Relinquished To Lab By: (Signature)	<i>E. Stewart</i>		Date/Time <i>8/17/23</i>	Received for Laboratory By: (Signature) <i>ROR</i>	Date/Time <i>8.17.23</i>

COC Labels Agree: Yes / No
 Appropriate Volume: Yes / No
 Appropriate Containers: Yes / No
 Coolers Intact: Yes / No
 Received on Ice: Yes / No
 Samples Accepted: Yes / No
 Thermometer ID: _____
 Temperature: _____ °C



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:	
Project Comments:					

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-21	CPC-06-SC-230816 CPC-06-SC-230816	1030 8/16/23	1040 8/16/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 2 4°C Arsenic KED ICPMS 20(4°C Cadmium KED ICPMS 2 4°C Chromium KED ICPMS : 4°C Copper KED ICPMS 20(4°C Hg-7471 4°C Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200.4 4°C Silver KED ICPMS 200.4 4°C Zinc KED ICPMS 200.8 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 <-20°C Sub_Dioxin-Furan 4°C Sub_Grain Size-Laser 4°C NH3-N T-350.2 4°C TOC-9060 4°C	

Field Remarks: Preservation: H2SO4 HNO3 NaOH Other: _____
(Circle and Write ID)

Sampler (Signature) <i>E. Stuard</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name <i>E. Stuard</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation <i>AQ</i>	Relinquished To Lab By: (Signature) <i>E. Stuard</i>	Date/Time <i>8/17/23</i>	Received for Laboratory By: (Signature) <i>ROR</i>	Date/Time <i>8.17.23</i>

Custody Seal: Yes / No _____ COC Labels Agree: Yes / No _____ Appropriate Volumes: Yes / No _____ Received from: Yes / No _____ Temperature: _____ °C
 Container Intact: Yes / No _____ Appropriate Containers: Yes / No _____ Coolers Intact: Yes / No _____ Samples Accepted: Yes / No _____ Thermometer ID: _____



CHAIN OF CUSTODY RECORD

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23H3257

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
						TS-2540 G 4°C	

Field Remarks: H2SO4 HNO3 NaOH Other:

Preservation: (Circle and Write ID)

Sampler (Signature) *E. Stewart* Relinquished By: (Signature) Received By: (Signature) Date/Time

Print Name *E. Stewart* Relinquished By: (Signature) Received By: (Signature) Date/Time

Affiliation *AQ* Relinquished To Lab By: (Signature) Received for Laboratory By: (Signature) Date/Time *8/17/23*

Custody Seal: Yes / No C.O.C. Labels Agree: Yes / No Appropriate Volume: Yes / No Temperature: °C

Container Intact: Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____



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23H3257

Anchor QEA, LLC
 Sara Flaherty
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-22	CPC-07-SC-230816 CPC-07-SC-230816	11:30 8/16/23	11:46 8/16/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 2.4°C Arsenic KED ICPMS 20.4°C Cadmium KED ICPMS 2.4°C Chromium KED ICPMS : 4°C Copper KED ICPMS 20.4°C Hg-7471 4°C Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200. 4°C Silver KED ICPMS 200.4 4°C Zinc KED ICPMS 200.8 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 <-20°C Sub_Dioxin-Furan 4°C Sub_Grain Size-Laser 4°C NH3-N T-350.2 4°C TOC-9060 4°C	

Field Remarks:
 Preservation: H2SO4 HNO3 NaOH
 (Circle and Write ID)

Sampler (Signature) *E. Stewart*

Print Name E. Stewart

Affiliation AQ

Relinquished To Lab By: (Signature) *E. Stewart*

Relinquished By: (Signature)

Relinquished To Lab By: (Signature)

Date/Time 8/17/23

Received By: (Signature)

Received By: (Signature)

Received for Laboratory By: (Signature) *RDR*

Date/Time 8/17/23

Date/Time

Date/Time

Custody Seal: Yes / No

Appropriate Volume: Yes / No

Appropriate Containers: Yes / No

Coolers Intact: Yes / No

Received Correctly: Yes / No

Samples Accepted: Yes / No

Temperature: _____ °C

Thermometer ID: _____

Anchor

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CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
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23H3257

Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:	
Project Comments:					

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
						TS-2540 G 4°C	

Field Remarks:

Preservation: H2SO4 HNO3 NaOH Other: _____
(Circle and Write ID)

Sampler (Signature) *E. Stewart* Relinquished By: (Signature) _____ Date/Time _____ Received By: (Signature) _____ Date/Time _____

Print Name *E. Stewart* Relinquished By: (Signature) _____ Date/Time _____ Received By: (Signature) _____ Date/Time _____

Affiliation *PQ* Relinquished To Lab By: (Signature) *E. Stewart* Date/Time *8/17/23* Received for Laboratory By: (Signature) *POZ* Date/Time *8/17/23*

Custody Seal: Yes / No _____ COC-Labels Agree: Yes / No _____ Appropriate Volume: Yes / No _____ Received on Ice: Yes / No _____ Temperature: _____ °C

Container Intact: Yes / No _____ Appropriate Containers: Yes / No _____ Coolers Intact: Yes / No _____ Samples Accepted: Yes / No _____ Thermometer ID: _____



SUBCONTRACT ORDER

Sending Laboratory:

North Water District Laboratory Services, Inc.
 130 South Trade Center Parkway
 Conroe, TX 77385
 Phone: 936-321-6060
 Fax: 936-321-6061
 Project Manager: Monica O. Martin

Subcontracted Laboratory:

Stratum Reservoir
 5200 N Sam Houston Pkwy West, Suite 500
 Houston, TX 77086
 Phone: 832-375-6800
 Fax:

Work Order: 23H3257

Analysis	Due	Expires	Comments
----------	-----	---------	----------

Sample ID: 23H3257-16 *Sediment* **Sampled: 08/15/2023 08:58**

Sub_Grain Size-Laser 08/31/2023 08/14/2024 08:58

Analyte(s):

Clay Gravel

Silt

Sand

Containers Supplied:

Sample ID: 23H3257-17 *Sediment* **Sampled: 08/15/2023 09:59**

Sub_Grain Size-Laser 08/31/2023 08/14/2024 09:59

Analyte(s):

Clay Gravel

Silt

Sand

Containers Supplied:

Sample ID: 23H3257-18 *Sediment* **Sampled: 08/15/2023 11:09**

Sub_Grain Size-Laser 08/31/2023 08/14/2024 11:09

Analyte(s):

Clay Gravel

Silt

Sand

Containers Supplied:

Sample ID: 23H3257-19 *Sediment* **Sampled: 08/15/2023 11:55**

Sub_Grain Size-Laser 08/31/2023 08/14/2024 11:55

Analyte(s):

Clay Gravel

Silt

Sand

Containers Supplied:



**SUBCONTRACT
ORDER**
(Continued)

Work Order: 23H3257 (Continued)

Analysis	Due	Expires	Comments
Sample ID: 23H3257-20 Sediment Sampled: 08/16/2023 09:30			
Sub_Grain Size-Laser	08/31/2023	08/15/2024 09:30	
Analyte(s): Clay Silt	Gravel		Sand
<i>Containers Supplied:</i>			
Sample ID: 23H3257-21 Sediment Sampled: 08/16/2023 10:40			
Sub_Grain Size-Laser	08/31/2023	08/15/2024 10:40	
Analyte(s): Clay Silt	Gravel		Sand
<i>Containers Supplied:</i>			
Sample ID: 23H3257-22 Sediment Sampled: 08/16/2023 11:40			
Sub_Grain Size-Laser	08/31/2023	08/15/2024 11:40	
Analyte(s): Clay Silt	Gravel		Sand
<i>Containers Supplied:</i>			
Released By	Date	Received By	Date

Laboratory Analysis Report

Total Number of Pages: 24

Job ID : 23082383



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name : 23H3257

Report To : Client Name: NWDLS P.O.#.: 23H3257
Attn: Monica O. Martin Sample Collected By:
Client Address: 130 S Trade Center Pkwy Date Collected: 08/15/23 - 08/16/23
City, State, Zip: Conroe, Texas, 77385

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
23H3257-02	Water	23082383.01
23H3257-03	Water	23082383.02
23H3257-04	Water	23082383.03
23H3257-05	Water	23082383.04
23H3257-06	Water	23082383.05
23H3257-07	Water	23082383.06
23H3257-08	Water	23082383.07
23H3257-16	Sludge	23082383.08
23H3257-17	Sludge	23082383.09
23H3257-18	Sludge	23082383.10
23H3257-19	Sludge	23082383.11
23H3257-20	Sludge	23082383.12
23H3257-21	Sludge	23082383.13
23H3257-22	Sludge	23082383.14

A handwritten signature in black ink that reads 'ashute'.

Released By: Amanda Shute
Title: Project Manager
Date: 8/30/2023



This Laboratory is NELAP (T104704213-23-31) accredited. Effective: 04/13/2023; Expires: 3/31/2024
Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

ab-q210-0321

Date Received : 08/23/2023 08:30

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 23082383

Date: 8/30/2023

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count
J	Estimation. Below calibration range but above MDL	MQL	Minimum Quantitation Limit

Qualifier Definition

H3	Sample was received and analyzed past holding time.
S1	Surrogate recovery is above control limit. Results may be biased high.
S8	Target compounds caused elevation of baseline. Surrogate may be biased high.
U	Undetected at SDL (Sample Detection Limit).



LABORATORY TEST RESULTS

Job ID : 23082383

Date 8/30/2023

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 23H3257

Client Sample ID: 23H3257-02 Job Sample ID: 23082383.01
 Date Collected: 08/15/23 Sample Matrix: Water
 Time Collected: 08:38 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 5310B	Total Organic Carbon									
	TOC	5.40	mg/L	1	0.47	1.00			08/24/23 16:00	AJ
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12	<0.59	mg/L	0.96	0.59	2.06		U	08/23/23 13:45	VK
	>C12-C28	<0.61	mg/L	0.96	0.61	2.06		U	08/23/23 13:45	VK
	>C28-C35	<0.45	mg/L	0.96	0.45	2.06		U	08/23/23 13:45	VK
	Total C6-C35	<0.45	mg/L	0.96	0.45			U	08/23/23 13:45	VK
	1-Chlorooctane(surr)	101	%	0.96		70-125			08/23/23 13:45	VK
	Chlorooctadecane(surr)	151	%	0.96		70-125		S1	08/23/23 13:45	VK



LABORATORY TEST RESULTS

Job ID : 23082383

Date 8/30/2023

Client Name: NWDLS Attn: Monica O. Martin
Project Name: 23H3257

Client Sample ID: 23H3257-03 Job Sample ID: 23082383.02
Date Collected: 08/15/23 Sample Matrix: Water
Time Collected: 09:43 % Moisture
Other Information:

Table with 11 columns: Test Method, Parameter/Test Description, Result, Units, DF, SDL, SQL, Reg Limit, Q, Date Time, Analyst. Rows include SM 5310B (Total Organic Carbon) and TX 1005 (Total Petroleum Hydrocarbons).



LABORATORY TEST RESULTS

Job ID : 23082383

Date 8/30/2023

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 23H3257

Client Sample ID: 23H3257-04 Job Sample ID: 23082383.03
 Date Collected: 08/15/23 Sample Matrix: Water
 Time Collected: 10:44 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 5310B	Total Organic Carbon									
	TOC	5.20	mg/L	1	0.47	1.00			08/24/23 16:00	AJ
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12	<0.58	mg/L	0.95	0.58	2.04		U	08/23/23 15:36	VK
	>C12-C28	<0.61	mg/L	0.95	0.61	2.04		U	08/23/23 15:36	VK
	>C28-C35	<0.45	mg/L	0.95	0.45	2.04		U	08/23/23 15:36	VK
	Total C6-C35	<0.45	mg/L	0.95	0.45			U	08/23/23 15:36	VK
	1-Chlorooctane(surr)	109	%	0.95		70-125			08/23/23 15:36	VK
	Chlorooctadecane(surr)	135	%	0.95		70-125		S1	08/23/23 15:36	VK

ab-q212-0321
 Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Job ID : 23082383

Date 8/30/2023

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 23H3257

Client Sample ID: 23H3257-05 Job Sample ID: 23082383.04
 Date Collected: 08/15/23 Sample Matrix: Water
 Time Collected: 11:55 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 5310B	Total Organic Carbon									
	TOC	5.50	mg/L	1	0.47	1.00			08/24/23 16:00	AJ
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12	<0.59	mg/L	0.96	0.59	2.06		U	08/23/23 16:14	VK
	>C12-C28	<0.61	mg/L	0.96	0.61	2.06		U	08/23/23 16:14	VK
	>C28-C35	<0.45	mg/L	0.96	0.45	2.06		U	08/23/23 16:14	VK
	Total C6-C35	<0.45	mg/L	0.96	0.45			U	08/23/23 16:14	VK
	1-Chlorooctane(surr)	83	%	0.96		70-125			08/23/23 16:14	VK
	Chlorooctadecane(surr)	125	%	0.96		70-125			08/23/23 16:14	VK



LABORATORY TEST RESULTS

Job ID : 23082383

Date 8/30/2023

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 23H3257

Client Sample ID: 23H3257-06 Job Sample ID: 23082383.05
 Date Collected: 08/16/23 Sample Matrix: Water
 Time Collected: 08:57 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 5310B	Total Organic Carbon									
	TOC	5.60	mg/L	1	0.47	1.00			08/24/23 16:00	AJ
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12	<0.57	mg/L	0.94	0.57	2.02		U	08/23/23 16:53	VK
	>C12-C28	<0.60	mg/L	0.94	0.60	2.02		U	08/23/23 16:53	VK
	>C28-C35	<0.44	mg/L	0.94	0.44	2.02		U	08/23/23 16:53	VK
	Total C6-C35	<0.44	mg/L	0.94	0.44			U	08/23/23 16:53	VK
	1-Chlorooctane(surr)	75	%	0.94		70-125			08/23/23 16:53	VK
	Chlorooctadecane(surr)	123	%	0.94		70-125			08/23/23 16:53	VK



LABORATORY TEST RESULTS

Job ID : 23082383

Date 8/30/2023

Client Name: NWDLS Attn: Monica O. Martin
Project Name: 23H3257

Client Sample ID: 23H3257-07 Job Sample ID: 23082383.06
Date Collected: 08/16/23 Sample Matrix: Water
Time Collected: 10:11 % Moisture
Other Information:

Table with 11 columns: Test Method, Parameter/Test Description, Result, Units, DF, SDL, SQL, Reg Limit, Q, Date Time, Analyst. Rows include SM 5310B (Total Organic Carbon) and TX 1005 (Total Petroleum Hydrocarbons).



LABORATORY TEST RESULTS

Job ID : 23082383

Date 8/30/2023

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 23H3257

Client Sample ID: 23H3257-08 Job Sample ID: 23082383.07
 Date Collected: 08/16/23 Sample Matrix: Water
 Time Collected: 11:18 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 5310B	Total Organic Carbon									
	TOC	5.30	mg/L	1	0.47	1.00			08/24/23 16:00	AJ
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12	<0.58	mg/L	0.95	0.58	2.04		U	08/23/23 18:09	VK
	>C12-C28	<0.61	mg/L	0.95	0.61	2.04		U	08/23/23 18:09	VK
	>C28-C35	<0.45	mg/L	0.95	0.45	2.04		U	08/23/23 18:09	VK
	Total C6-C35	<0.45	mg/L	0.95	0.45			U	08/23/23 18:09	VK
	1-Chlorooctane(surr)	80.1	%	0.95		70-125			08/23/23 18:09	VK
	Chlorooctadecane(surr)	113	%	0.95		70-125			08/23/23 18:09	VK

ab-q212-0321
 Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Job ID : 23082383

Date 8/30/2023

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 23H3257

Client Sample ID: 23H3257-16 Job Sample ID: 23082383.08
 Date Collected: 08/15/23 Sample Matrix: Sludge
 Time Collected: 08:58 % Moisture: 40.5
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 2540G	% Moisture									
	% Moisture	40.5	%	1		0.100		H3	08/24/23 09:00	BR
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12*	<15.0	mg/Kg	1.00	15.0	42.0		U	08/29/23 20:16	SKY
	>C12-C28*	<12.4	mg/Kg	1.00	12.4	42.0		U	08/29/23 20:16	SKY
	>C28-C35*	<10.4	mg/Kg	1.00	10.4	42.0		U	08/29/23 20:16	SKY
	Total C6-C35*	<10.4	mg/Kg	1.00	10.4			U	08/29/23 20:16	SKY
	1-Chlorooctane(surr)	106	%	1.00		60-143			08/29/23 20:16	SKY
	Chlorooctadecane(surr)	95.5	%	1.00		60-150			08/29/23 20:16	SKY

ab-q212-0321
 Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Job ID : 23082383

Date 8/30/2023

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 23H3257

Client Sample ID: 23H3257-17 Job Sample ID: 23082383.09
 Date Collected: 08/15/23 Sample Matrix: Sludge
 Time Collected: 09:59 % Moisture: 22.3
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 2540G	% Moisture									
	% Moisture	22.3	%	1		0.100		H3	08/24/23 09:00	BR
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12*	<11.5	mg/Kg	1.00	11.5	32.2		U	08/29/23 20:49	SKY
	>C12-C28*	<9.46	mg/Kg	1.00	9.46	32.2		U	08/29/23 20:49	SKY
	>C28-C35*	<7.98	mg/Kg	1.00	7.98	32.2		U	08/29/23 20:49	SKY
	Total C6-C35*	<7.98	mg/Kg	1.00	7.98			U	08/29/23 20:49	SKY
	1-Chlorooctane(surr)	97.9	%	1.00		60-143			08/29/23 20:49	SKY
	Chlorooctadecane(surr)	87.1	%	1.00		60-150			08/29/23 20:49	SKY

ab-q212-0321
 Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Job ID : 23082383

Date 8/30/2023

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 23H3257

Client Sample ID: 23H3257-18 Job Sample ID: 23082383.10
 Date Collected: 08/15/23 Sample Matrix: Sludge
 Time Collected: 11:09 % Moisture: 32
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 2540G	% Moisture									
	% Moisture	32.0	%	1		0.100		H3	08/24/23 09:00	BR
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12*	<13.1	mg/Kg	1.00	13.1	36.8		U	08/29/23 21:22	SKY
	>C12-C28*	<10.8	mg/Kg	1.00	10.8	36.8		U	08/29/23 21:22	SKY
	>C28-C35*	<9.12	mg/Kg	1.00	9.12	36.8		U	08/29/23 21:22	SKY
	Total C6-C35*	<9.12	mg/Kg	1.00	9.12			U	08/29/23 21:22	SKY
	1-Chlorooctane(surr)	96.2	%	1.00		60-143			08/29/23 21:22	SKY
	Chlorooctadecane(surr)	86.9	%	1.00		60-150			08/29/23 21:22	SKY

ab-q212-0321
 Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Job ID : 23082383

Date 8/30/2023

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 23H3257

Client Sample ID: 23H3257-19 Job Sample ID: 23082383.11
 Date Collected: 08/15/23 Sample Matrix: Sludge
 Time Collected: 11:55 % Moisture: 44.3
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 2540G	% Moisture									
	% Moisture	44.3	%	1		0.100		H3	08/24/23 09:00	BR
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12*	<16.1	mg/Kg	1.00	16.1	44.9		U	08/29/23 21:55	SKY
	>C12-C28*	<13.2	mg/Kg	1.00	13.2	44.9		U	08/29/23 21:55	SKY
	>C28-C35*	<11.1	mg/Kg	1.00	11.1	44.9		U	08/29/23 21:55	SKY
	Total C6-C35*	<11.1	mg/Kg	1.00	11.1			U	08/29/23 21:55	SKY
	1-Chlorooctane(surr)	93.5	%	1.00		60-143			08/29/23 21:55	SKY
	Chlorooctadecane(surr)	85.8	%	1.00		60-150			08/29/23 21:55	SKY



LABORATORY TEST RESULTS

Job ID : 23082383

Date 8/30/2023

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 23H3257

Client Sample ID: 23H3257-20 Job Sample ID: 23082383.12
 Date Collected: 08/16/23 Sample Matrix: Sludge
 Time Collected: 09:30 % Moisture: 40.3
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 2540G	% Moisture									
	% Moisture	40.3	%	1		0.100		H3	08/24/23 09:00	BR
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12*	<15.0	mg/Kg	1.00	15.0	41.9		U	08/29/23 22:27	SKY
	>C12-C28*	<12.3	mg/Kg	1.00	12.3	41.9		U	08/29/23 22:27	SKY
	>C28-C35*	<10.4	mg/Kg	1.00	10.4	41.9		U	08/29/23 22:27	SKY
	Total C6-C35*	<10.4	mg/Kg	1.00	10.4			U	08/29/23 22:27	SKY
	1-Chlorooctane(surr)	94.9	%	1.00		60-143			08/29/23 22:27	SKY
	Chlorooctadecane(surr)	87.6	%	1.00		60-150			08/29/23 22:27	SKY

ab-q212-0321
 Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Job ID : 23082383

Date 8/30/2023

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 23H3257

Client Sample ID: 23H3257-21 Job Sample ID: 23082383.13
 Date Collected: 08/16/23 Sample Matrix: Sludge
 Time Collected: 10:40 % Moisture: 47
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 2540G	% Moisture									
	% Moisture	47.0	%	1		0.100		H3	08/24/23 09:00	BR
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12*	<16.9	mg/Kg	1.00	16.9	47.2		U	08/30/23 00:06	SKY
	>C12-C28*	<13.9	mg/Kg	1.00	13.9	47.2		U	08/30/23 00:06	SKY
	>C28-C35*	<11.7	mg/Kg	1.00	11.7	47.2		U	08/30/23 00:06	SKY
	Total C6-C35*	<11.7	mg/Kg	1.00	11.7			U	08/30/23 00:06	SKY
	1-Chlorooctane(surr)	95.5	%	1.00		60-143			08/30/23 00:06	SKY
	Chlorooctadecane(surr)	87.6	%	1.00		60-150			08/30/23 00:06	SKY

ab-q212-0321
 Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Job ID : 23082383

Date 8/30/2023

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 23H3257

Client Sample ID: 23H3257-22 Job Sample ID: 23082383.14
 Date Collected: 08/16/23 Sample Matrix: Sludge
 Time Collected: 11:40 % Moisture: 48.7
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 2540G	% Moisture									
	% Moisture	48.7	%	1		0.100		H3	08/24/23 09:00	BR
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12*	<17.4	mg/Kg	1.00	17.4	48.7		U	08/30/23 00:38	SKY
	>C12-C28*	<14.3	mg/Kg	1.00	14.3	48.7		U	08/30/23 00:38	SKY
	>C28-C35*	<12.1	mg/Kg	1.00	12.1	48.7		U	08/30/23 00:38	SKY
	Total C6-C35*	<12.1	mg/Kg	1.00	12.1			U	08/30/23 00:38	SKY
	1-Chlorooctane(surr)	91.5	%	1.00		60-143			08/30/23 00:38	SKY
	Chlorooctadecane(surr)	83	%	1.00		60-150			08/30/23 00:38	SKY

ab-q212-0321
 Soil results reported on dry weight basis

QUALITY CONTROL CERTIFICATE



Job ID : 23082383

Date : 8/30/2023

Analysis : Total Petroleum Hydrocarbons **Method :** TX 1005 **Reporting Units :** mg/L

QC Batch ID : Qb230823136 **Created Date :** 08/23/23 **Created By :** Vinod

Samples in This QC Batch : 23082383.01,02,03,04,05,06,07

Sample Preparation : PB23082348 **Prep Method :** TX 1005 **Prep Date :** 08/23/23 10:00 **Prep By :** JOlivera

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
C6-C12	TPH-1005-1	< MDL	mg/L	1.00	2.15	0.61	
>C12-C28	TPH-1005-2	< MDL	mg/L	1.00	2.15	0.64	
>C28-C35	TPH-1005-4	< MDL	mg/L	1.00	2.15	0.47	
Total C6-C35		< MDL	mg/L	1.00	----	0.47	
Chlorooctadecane(surr)	3386-33-2	112	%	1.00			
1-Chlorooctane(surr)	111-85-3	111	%	1.00			

QC Type: Duplicate

QC Sample ID: 23082383.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
>C12-C28	BRL	BRL	mg/L	0	20	
>C28-C35	BRL	BRL	mg/L	0	20	
C6-C12	BRL	BRL	mg/L	0	20	
Total C6-C35	BRL	BRL	mg/L	0	20	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	43	39.2	91.2	43	38.5	89.5	1.9	20	75-125	
>C12-C28	43	43.8	102	43	42.2	98.2	3.8	20	75-125	
>C28-C35	43	34.3	79.9	43	34.6	80.5	0.8	20	75-125	

QUALITY CONTROL CERTIFICATE



Job ID : 23082383

Date : 8/30/2023

Analysis : Total Organic Carbon

Method : SM 5310B

Reporting Units : mg/L

QC Batch ID : Qb23082516

Created Date : 08/25/23

Created By : Ajohn

Samples in This QC Batch : 23082383.01,02,03,04,05,06,07

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
TOC	TOC	< MDL	mg/L	1	1	0.61	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
TOC	10	9.5	95						89.4-113	

QC Type: MS and MSD

QC Sample ID: 23082405.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
TOC	18.7	5	24.1	108	5	24.5	116	1.6	10	80-120	

QUALITY CONTROL CERTIFICATE



Job ID : 23082383

Date : 8/30/2023

Analysis : Total Petroleum Hydrocarbons **Method :** TX 1005 **Reporting Units :** mg/Kg

QC Batch ID : Qb230829120 **Created Date :** 08/29/23 **Created By :** SKYanduru

Samples in This QC Batch : 23082383.08,09,10,11,12,13,14

Sample Preparation : PB23082954 **Prep Method :** TX 1005 **Prep Date :** 08/29/23 13:49 **Prep By :** JOlivera

QC Type: Method Blank									
Parameter	CAS #	Result	Units	D.F.	MQL	MDL			Qual
C6-C12	TPH-1005-1	< MDL	mg/Kg	1.00	25	8.94			
>C12-C28	TPH-1005-2	< MDL	mg/Kg	1.00	25	7.35			
>C28-C35	TPH-1005-4	< MDL	mg/Kg	1.00	25	6.20			
Total C6-C35		< MDL	mg/Kg	1.00	----	6.20			
Chlorooctadecane(surr)	3386-33-2	102	%	1.00					
1-Chlorooctane(surr)	111-85-3	138	%	1.00					

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	500	480	95.9	500	483	96.5	0.6	20	75-125	
>C12-C28	500	472	94.4	500	469	93.7	0.7	20	75-125	
>C28-C35	500	417	83.4	500	443	88.6	6	20	75-125	

QC Type: MS and MSD											
QC Sample ID: 23082873.01											
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
C6-C12	BRL	500	472	94.3	500	465	93	1.4	20	75-125	
>C12-C28	BRL	500	483	96.6	500	494	98.8	2.2	20	75-125	
>C28-C35	BRL	500	440	87.9	500	462	92.5	5.1	20	75-125	



Job ID:23082383



08/23/2023

NWDLS

AMS

SUBCONTRACT ORDER

Sending Laboratory:

North Water District Laboratory Services, Inc.
130 South Trade Center Parkway
Conroe, TX 77385
Phone: 936-321-6060
Fax: 936-321-6061

Project Manager: Monica O. Martin

Subcontracted Laboratory:

A & B Labs
10100 East Freeway, Suite 100
Houston, TX 77029
Phone: (713) 453-6060
Fax: (713) 453-6091

Work Order: 23H3257

Analysis	Due	Expires	Comments
Sample ID: 23H3257-02 Marine Water Sampled: 08/15/2023 08:38			
TOC-5310 C	08/31/2023	09/12/2023 08:38	DIAD
<i>Analyte(s):</i> Total Organic Carbon (TOC)			
TPH-1005	08/31/2023	08/29/2023 08:38	Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Analyte(s):</i> 1-Chlorooctadecane-surr	1-Chlorooctane-surr		
<i>Containers Supplied:</i>			
Sample ID: 23H3257-03 Marine Water Sampled: 08/15/2023 09:43			
TOC-5310 C	08/31/2023	09/12/2023 09:43	OZAD
<i>Analyte(s):</i> Total Organic Carbon (TOC)			
TPH-1005	08/31/2023	08/29/2023 09:43	Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Analyte(s):</i> 1-Chlorooctadecane-surr	1-Chlorooctane-surr		
<i>Containers Supplied:</i>			
Sample ID: 23H3257-04 Marine Water Sampled: 08/15/2023 10:44			
TOC-5310 C	08/31/2023	09/12/2023 10:44	OZAD
<i>Analyte(s):</i> Total Organic Carbon (TOC)			
TPH-1005	08/31/2023	08/29/2023 10:44	Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Analyte(s):</i> 1-Chlorooctadecane-surr	1-Chlorooctane-surr		
<i>Containers Supplied:</i>			



**SUBCONTRACT
ORDER**
(Continued)

Work Order: 23H3257 (Continued)

Analysis	Due	Expires	Comments
Sample ID: 23H3257-05 Marine Water Sampled: 08/15/2023 11:55			
TOC-5310 C <i>Analyte(s):</i> Total Organic Carbon (TOC)	08/31/2023	09/12/2023 11:55	
TPH-1005 <i>Analyte(s):</i> 1-Chlorooctadecane-surr	08/31/2023	08/29/2023 11:55	04AD Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			
Sample ID: 23H3257-06 Marine Water Sampled: 08/16/2023 08:57			
TOC-5310 C <i>Analyte(s):</i> Total Organic Carbon (TOC)	08/31/2023	09/13/2023 08:57	
TPH-1005 <i>Analyte(s):</i> 1-Chlorooctadecane-surr	08/31/2023	08/30/2023 08:57	05AD Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			
Sample ID: 23H3257-07 Marine Water Sampled: 08/16/2023 10:11			
TOC-5310 C <i>Analyte(s):</i> Total Organic Carbon (TOC)	08/31/2023	09/13/2023 10:11	
TPH-1005 <i>Analyte(s):</i> 1-Chlorooctadecane-surr	08/31/2023	08/30/2023 10:11	06AD Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			
Sample ID: 23H3257-08 Marine Water Sampled: 08/16/2023 11:18			
TOC-5310 C <i>Analyte(s):</i> Total Organic Carbon (TOC)	08/31/2023	09/13/2023 11:18	
TPH-1005 <i>Analyte(s):</i> 1-Chlorooctadecane-surr	08/31/2023	08/30/2023 11:18	07AD Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			
Sample ID: 23H3257-16 Sediment Sampled: 08/15/2023 08:58			
TPH-1005 <i>Analyte(s):</i> 1-Chlorooctadecane-surr	08/31/2023	08/29/2023 08:58	08A Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			



**SUBCONTRACT
ORDER
(Continued)**

Work Order: 23H3257 (Continued)

Analysis	Due	Expires	Comments
Sample ID: 23H3257-17 Sediment Sampled: 08/15/2023 09:59			
TPH-1005	08/31/2023	08/29/2023 09:59	
<i>Analyte(s):</i> 1-Chlorooctadecane-surr	1-Chlorooctane-surr		Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			09A
Sample ID: 23H3257-18 Sediment Sampled: 08/15/2023 11:09			
TPH-1005	08/31/2023	08/29/2023 11:09	
<i>Analyte(s):</i> 1-Chlorooctadecane-surr	1-Chlorooctane-surr		Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			10A
Sample ID: 23H3257-19 Sediment Sampled: 08/15/2023 11:55			
TPH-1005	08/31/2023	08/29/2023 11:55	
<i>Analyte(s):</i> 1-Chlorooctadecane-surr	1-Chlorooctane-surr		Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			11A
Sample ID: 23H3257-20 Sediment Sampled: 08/16/2023 09:30			
TPH-1005	08/31/2023	08/30/2023 09:30	
<i>Analyte(s):</i> 1-Chlorooctadecane-surr	1-Chlorooctane-surr		Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			12A
Sample ID: 23H3257-21 Sediment Sampled: 08/16/2023 10:40			
TPH-1005	08/31/2023	08/30/2023 10:40	
<i>Analyte(s):</i> 1-Chlorooctadecane-surr	1-Chlorooctane-surr		Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			13A
Sample ID: 23H3257-22 Sediment Sampled: 08/16/2023 11:40			
TPH-1005	08/31/2023	08/30/2023 11:40	
<i>Analyte(s):</i> 1-Chlorooctadecane-surr	1-Chlorooctane-surr		Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			14A

Andrew Rodriguez _____ 8-23-23 _____ 08/25/23 0830
 Released By Date Received By Date



Sample Condition Checklist

A&B JobID : 23082383	Date Received : 08/23/2023	Time Received : 8:30AM		
Client Name : NWDLS				
Temperature : 1.6°C	Sample pH : <2 TOC			
Thermometer ID : IR5	pH Paper ID : 108701			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.		X	
2.	Sample(s) in a cooler.	X		
3.	If yes, ice in cooler.	X		
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative	X		
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.	X		
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:
 SX01-07=water and 08-14=sludge 9sediment). ~JE 08/23/23

Brought by : Client
 Received by : Jedralin
 Check in by/date : Jedralin / 08/23/2023

ab-s005-0321

Laboratory Analysis Report

Total Number of Pages: 16

Job ID : 23082698



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name : 23H3257

Report To : Client Name: NWDLS P.O.#.: 23H3257
Attn: Monica O. Martin Sample Collected By:
Client Address: 130 S Trade Center Pkwy Date Collected: 08/22/23
City, State, Zip: Conroe, Texas, 77385

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
23H3257-09	Water	23082698.01
23H3257-10	Water	23082698.02
23H3257-11	Water	23082698.03
23H3257-12	Water	23082698.04
23H3257-13	Water	23082698.05
23H3257-14	Water	23082698.06
23H3257-15	Water	23082698.07

ashute

Released By: Amanda Shute

Title: Project Manager

Date: 8/31/2023



This Laboratory is NELAP (T104704213-23-31) accredited. Effective: 04/13/2023; Expires: 3/31/2024

Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

ab-q210-0321

Date Received : 08/25/2023 09:16

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 23082698

Date: 8/31/2023

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count
J	Estimation. Below calibration range but above MDL	MQL	Minimum Quantitation Limit

Qualifier Definition

S1	Surrogate recovery is above control limit. Results may be biased high.
S8	Target compounds caused elevation of baseline. Surrogate may be biased high.
U	Undetected at SDL (Sample Detection Limit).



LABORATORY TEST RESULTS

Job ID : 23082698

Date 8/31/2023

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 23H3257

Client Sample ID: 23H3257-09 Job Sample ID: 23082698.01
 Date Collected: 08/22/23 Sample Matrix: Water
 Time Collected: 09:54 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 5310B	Total Organic Carbon									
	TOC	6.40	mg/L	1	0.61	1.00			08/25/23 16:00	AJ
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12	<0.59	mg/L	0.97	0.59	2.09		U	08/25/23 20:35	VK
	>C12-C28	<0.62	mg/L	0.97	0.62	2.09		U	08/25/23 20:35	VK
	>C28-C35	<0.46	mg/L	0.97	0.46	2.09		U	08/25/23 20:35	VK
	Total C6-C35	<0.46	mg/L	0.97	0.46			U	08/25/23 20:35	VK
	1-Chlorooctane(surr)	113	%	0.97		70-125			08/25/23 20:35	VK
	Chlorooctadecane(surr)	118	%	0.97		70-125			08/25/23 20:35	VK



LABORATORY TEST RESULTS

Job ID : 23082698

Date 8/31/2023

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 23H3257

Client Sample ID: 23H3257-10 Job Sample ID: 23082698.02
 Date Collected: 08/22/23 Sample Matrix: Water
 Time Collected: 09:54 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 5310B	Total Organic Carbon									
	TOC	6.80	mg/L	1	0.61	1.00			08/25/23 16:00	AJ
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12	<0.59	mg/L	0.97	0.59	2.09		U	08/26/23 02:09	VK
	>C12-C28	<0.62	mg/L	0.97	0.62	2.09		U	08/26/23 02:09	VK
	>C28-C35	<0.46	mg/L	0.97	0.46	2.09		U	08/26/23 02:09	VK
	Total C6-C35	<0.46	mg/L	0.97	0.46			U	08/26/23 02:09	VK
	1-Chlorooctane(surr)	107	%	0.97		70-125			08/26/23 02:09	VK
	Chlorooctadecane(surr)	119	%	0.97		70-125			08/26/23 02:09	VK



LABORATORY TEST RESULTS

Job ID : 23082698

Date 8/31/2023

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 23H3257

Client Sample ID: 23H3257-11 Job Sample ID: 23082698.03
 Date Collected: 08/22/23 Sample Matrix: Water
 Time Collected: 09:54 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 5310B	Total Organic Carbon									
	TOC	7.10	mg/L	1	0.61	1.00			08/25/23 16:00	AJ
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12	<0.57	mg/L	0.94	0.57	2.02		U	08/26/23 02:46	VK
	>C12-C28	<0.60	mg/L	0.94	0.60	2.02		U	08/26/23 02:46	VK
	>C28-C35	<0.44	mg/L	0.94	0.44	2.02		U	08/26/23 02:46	VK
	Total C6-C35	<0.44	mg/L	0.94	0.44			U	08/26/23 02:46	VK
	1-Chlorooctane(surr)	109	%	0.94		70-125			08/26/23 02:46	VK
	Chlorooctadecane(surr)	116	%	0.94		70-125			08/26/23 02:46	VK



LABORATORY TEST RESULTS

Job ID : 23082698

Date 8/31/2023

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 23H3257

Client Sample ID: 23H3257-12 Job Sample ID: 23082698.04
 Date Collected: 08/22/23 Sample Matrix: Water
 Time Collected: 09:54 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 5310B	Total Organic Carbon									
	TOC	6.20	mg/L	1	0.61	1.00			08/25/23 16:00	AJ
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12	<0.59	mg/L	0.96	0.59	2.06		U	08/26/23 03:22	VK
	>C12-C28	<0.61	mg/L	0.96	0.61	2.06		U	08/26/23 03:22	VK
	>C28-C35	<0.45	mg/L	0.96	0.45	2.06		U	08/26/23 03:22	VK
	Total C6-C35	<0.45	mg/L	0.96	0.45			U	08/26/23 03:22	VK
	1-Chlorooctane(surr)	132	%	0.96		70-125		S1	08/26/23 03:22	VK
	Chlorooctadecane(surr)	141	%	0.96		70-125		S1	08/26/23 03:22	VK



LABORATORY TEST RESULTS

Job ID : 23082698

Date 8/31/2023

Client Name: NWDLS Attn: Monica O. Martin
Project Name: 23H3257

Client Sample ID: 23H3257-13 Job Sample ID: 23082698.05
Date Collected: 08/22/23 Sample Matrix: Water
Time Collected: 09:54 % Moisture
Other Information:

Table with 11 columns: Test Method, Parameter/Test Description, Result, Units, DF, SDL, SQL, Reg Limit, Q, Date Time, Analyst. Rows include SM 5310B (Total Organic Carbon) and TX 1005 (Total Petroleum Hydrocarbons).



LABORATORY TEST RESULTS

Job ID : 23082698

Date 8/31/2023

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 23H3257

Client Sample ID: 23H3257-14 Job Sample ID: 23082698.06
 Date Collected: 08/22/23 Sample Matrix: Water
 Time Collected: 09:54 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 5310B	Total Organic Carbon									
	TOC	6.90	mg/L	1	0.61	1.00			08/25/23 16:00	AJ
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12	<0.59	mg/L	0.96	0.59	2.06		U	08/26/23 04:35	VK
	>C12-C28	<0.61	mg/L	0.96	0.61	2.06		U	08/26/23 04:35	VK
	>C28-C35	<0.45	mg/L	0.96	0.45	2.06		U	08/26/23 04:35	VK
	Total C6-C35	<0.45	mg/L	0.96	0.45			U	08/26/23 04:35	VK
	1-Chlorooctane(surr)	107	%	0.96		70-125			08/26/23 04:35	VK
	Chlorooctadecane(surr)	116	%	0.96		70-125			08/26/23 04:35	VK



LABORATORY TEST RESULTS

Job ID : 23082698

Date 8/31/2023

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 23H3257

Client Sample ID: 23H3257-15 Job Sample ID: 23082698.07
 Date Collected: 08/22/23 Sample Matrix: Water
 Time Collected: 09:54 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 5310B	Total Organic Carbon									
	TOC	6.60	mg/L	1	0.61	1.00			08/25/23 16:00	AJ
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12	<0.59	mg/L	0.96	0.59	2.06		U	08/26/23 05:11	VK
	>C12-C28	<0.61	mg/L	0.96	0.61	2.06		U	08/26/23 05:11	VK
	>C28-C35	<0.45	mg/L	0.96	0.45	2.06		U	08/26/23 05:11	VK
	Total C6-C35	<0.45	mg/L	0.96	0.45			U	08/26/23 05:11	VK
	1-Chlorooctane(surr)	105	%	0.96		70-125			08/26/23 05:11	VK
	Chlorooctadecane(surr)	113	%	0.96		70-125			08/26/23 05:11	VK

QUALITY CONTROL CERTIFICATE



Job ID : 23082698

Date : 8/31/2023

Analysis : Total Organic Carbon

Method : SM 5310B

Reporting Units : mg/L

QC Batch ID : Qb230825117 **Created Date :** 08/25/23

Created By : Ajohn

Samples in This QC Batch : 23082698.01,02,03,04,05,06,07

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
TOC	TOC	< MDL	mg/L	1	1	0.61	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
TOC	10	9.9	99						89.4-113	

QC Type: MS and MSD

QC Sample ID: 23082469.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
TOC	5.1	5	10.4	106	5	10.5	108	1	10	80-120	

QUALITY CONTROL CERTIFICATE



Job ID : 23082698

Date : 8/31/2023

Analysis : Total Petroleum Hydrocarbons **Method :** TX 1005 **Reporting Units :** mg/L

QC Batch ID : Qb230825147 **Created Date :** 08/25/23 **Created By :** Vinod

Samples in This QC Batch : 23082698.01,02,03,04,05,06,07

Sample Preparation : PB23082565 **Prep Method :** TX 1005 **Prep Date :** 08/25/23 13:00 **Prep By :** JOlivera

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
C6-C12	TPH-1005-1	< MDL	mg/L	1.00	2.15	0.61	
>C12-C28	TPH-1005-2	< MDL	mg/L	1.00	2.15	0.64	
>C28-C35	TPH-1005-4	< MDL	mg/L	1.00	2.15	0.47	
Total C6-C35		< MDL	mg/L	1.00	----	0.47	
Chlorooctadecane(surr)	3386-33-2	106	%	1.00			
1-Chlorooctane(surr)	111-85-3	104	%	1.00			

QC Type: Duplicate

QC Sample ID: 23082698.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
>C12-C28	BRL	BRL	mg/L	0	20	
>C28-C35	BRL	BRL	mg/L	0	20	
C6-C12	BRL	BRL	mg/L	0	20	
Total C6-C35	BRL	BRL	mg/L	0	20	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	43	36.8	85.5	43	36.3	84.3	1.3	20	75-125	
>C12-C28	43	42.1	97.9	43	41.5	96.4	1.4	20	75-125	
>C28-C35	43	33.7	78.4	43	34.4	79.9	2	20	75-125	



Job ID:23082698



08/25/2023

NWDLS

AMS

SUBCONTRACT ORDER

Sending Laboratory:

North Water District Laboratory Services, Inc.
130 South Trade Center Parkway
Conroe, TX 77385
Phone: 936-321-6060
Fax: 936-321-6061

Project Manager: Monica O. Martin

Subcontracted Laboratory:

A & B Labs
10100 East Freeway, Suite 100
Houston, TX 77029
Phone: (713) 453-6060
Fax: (713) 453-6091

Work Order: 23H3257

Analysis	Due	Expires	Comments
Sample ID: 23H3257-02 Marine Water Sampled: 08/15/2023 08:38			
TOC-5310 C	08/31/2023	09/12/2023 08:38	
<i>Analyte(s):</i> Total Organic Carbon (TOC)			
TPH-1005	08/31/2023	08/29/2023 08:38	
<i>Analyte(s):</i> 1-Chlorooctadecane-surr	1-Chlorooctane-surr		Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			
Sample ID: 23H3257-03 Marine Water Sampled: 08/15/2023 09:43			
TOC-5310 C	08/31/2023	09/12/2023 09:43	
<i>Analyte(s):</i> Total Organic Carbon (TOC)			
TPH-1005	08/31/2023	08/29/2023 09:43	
<i>Analyte(s):</i> 1-Chlorooctadecane-surr	1-Chlorooctane-surr		Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			
Sample ID: 23H3257-04 Marine Water Sampled: 08/15/2023 10:44			
TOC-5310 C	08/31/2023	09/12/2023 10:44	
<i>Analyte(s):</i> Total Organic Carbon (TOC)			
TPH-1005	08/31/2023	08/29/2023 10:44	
<i>Analyte(s):</i> 1-Chlorooctadecane-surr	1-Chlorooctane-surr		Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			



**SUBCONTRACT
ORDER**
(Continued)

Work Order: 23H3257 (Continued)

Analysis	Due	Expires	Comments
Sample ID: 23H3257-09 Elutriate Sampled: 08/15/2023 08:58			
TOC-5310 C-ELUT <i>Analyte(s):</i> Total Organic Carbon (TOC)	08/31/2023	09/12/2023 08:58	
TPH-1005-ELUT <i>Analyte(s):</i> 1-Chlorooctadecane-surr	08/31/2023	08/29/2023 08:58	Leached: 08/22/2023 09:54 Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			
Sample ID: 23H3257-10 Elutriate Sampled: 08/15/2023 09:59			
TOC-5310 C-ELUT <i>Analyte(s):</i> Total Organic Carbon (TOC)	08/31/2023	09/12/2023 09:59	
TPH-1005-ELUT <i>Analyte(s):</i> 1-Chlorooctadecane-surr	08/31/2023	08/29/2023 09:59	Leached: 08/22/2023 09:54 Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			
Sample ID: 23H3257-11 Elutriate Sampled: 08/15/2023 11:09			
TOC-5310 C-ELUT <i>Analyte(s):</i> Total Organic Carbon (TOC)	08/31/2023	09/12/2023 11:09	
TPH-1005-ELUT <i>Analyte(s):</i> 1-Chlorooctadecane-surr	08/31/2023	08/29/2023 11:09	Leached: 08/22/2023 09:54 Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			
Sample ID: 23H3257-12 Elutriate Sampled: 08/15/2023 11:55			
TOC-5310 C-ELUT <i>Analyte(s):</i> Total Organic Carbon (TOC)	08/31/2023	09/12/2023 11:55	
TPH-1005-ELUT <i>Analyte(s):</i> 1-Chlorooctadecane-surr	08/31/2023	08/29/2023 11:55	Leached: 08/22/2023 09:54 Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			

01A ^{08/15/23}

02A B C

03A B C

04A B C



**SUBCONTRACT
ORDER**
(Continued)

Work Order: 23H3257 (Continued)

Analysis	Due	Expires	Comments
Sample ID: 23H3257-13 Elutriate Sampled: 08/16/2023 09:30			
TOC-5310 C-ELUT <i>Analyte(s):</i> Total Organic Carbon (TOC)	08/31/2023	09/13/2023 09:30	
TPH-1005-ELUT <i>Analyte(s):</i> 1-Chlorooctadecane-surr	08/31/2023	08/30/2023 09:30	Leached: 08/22/2023 09:54 Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			
Sample ID: 23H3257-14 Elutriate Sampled: 08/16/2023 10:40			
TOC-5310 C-ELUT <i>Analyte(s):</i> Total Organic Carbon (TOC)	08/31/2023	09/13/2023 10:40	
TPH-1005-ELUT <i>Analyte(s):</i> 1-Chlorooctadecane-surr	08/31/2023	08/30/2023 10:40	Leached: 08/22/2023 09:54 Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			
Sample ID: 23H3257-15 Elutriate Sampled: 08/16/2023 11:40			
TOC-5310 C-ELUT <i>Analyte(s):</i> Total Organic Carbon (TOC)	08/31/2023	09/13/2023 11:40	
TPH-1005-ELUT <i>Analyte(s):</i> 1-Chlorooctadecane-surr	08/31/2023	08/30/2023 11:40	Leached: 08/22/2023 09:54 Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			
Sample ID: 23H3257-16 Sediment Sampled: 08/15/2023 08:58			
TPH-1005 <i>Analyte(s):</i> 1-Chlorooctadecane-surr	08/31/2023	08/29/2023 08:58	Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			
Sample ID: 23H3257-17 Sediment Sampled: 08/15/2023 09:59			
TPH-1005 <i>Analyte(s):</i> 1-Chlorooctadecane-surr	08/31/2023	08/29/2023 09:59	Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			

*MS
05/16/23*
05A DC

06A DC

07A DC



SUBCONTRACT ORDER

(Continued)

Work Order: 23H3257 (Continued)

Analysis	Due	Expires	Comments
Sample ID: 23H3257-18 Sediment Sampled: 08/15/2023 11:09			
TPH-1005	08/31/2023	08/29/2023 11:09	
Analyte(s): 1-Chlorooctadecane-surr	1-Chlorooctane-surr		Total Petroleum Hydrocarbons (TPH), C6-C35
Containers Supplied:			
Sample ID: 23H3257-19 Sediment Sampled: 08/15/2023 11:55			
TPH-1005	08/31/2023	08/29/2023 11:55	
Analyte(s): 1-Chlorooctadecane-surr	1-Chlorooctane-surr		Total Petroleum Hydrocarbons (TPH), C6-C35
Containers Supplied:			
Sample ID: 23H3257-20 Sediment Sampled: 08/16/2023 09:30			
TPH-1005	08/31/2023	08/30/2023 09:30	
Analyte(s): 1-Chlorooctadecane-surr	1-Chlorooctane-surr		Total Petroleum Hydrocarbons (TPH), C6-C35
Containers Supplied:			
Sample ID: 23H3257-21 Sediment Sampled: 08/16/2023 10:40			
TPH-1005	08/31/2023	08/30/2023 10:40	
Analyte(s): 1-Chlorooctadecane-surr	1-Chlorooctane-surr		Total Petroleum Hydrocarbons (TPH), C6-C35
Containers Supplied:			
Sample ID: 23H3257-22 Sediment Sampled: 08/16/2023 11:40			
TPH-1005	08/31/2023	08/30/2023 11:40	
Analyte(s): 1-Chlorooctadecane-surr	1-Chlorooctane-surr		Total Petroleum Hydrocarbons (TPH), C6-C35
Containers Supplied:			

Released By [Signature] Date 8/25/23
09:16

Received By A. Smith Date 8-25-23
09:16
4.1°C
125
ANS



Sample Condition Checklist

A&B JobID : 23082698	Date Received : 08/25/2023	Time Received : 9:16AM		
Client Name : NWDLS				
Temperature : 4.1°C	Sample pH : <2 TOC			
Thermometer ID : IR5	pH Paper ID : 108701			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.		X	
2.	Sample(s) in a cooler.	X		
3.	If yes, ice in cooler.	X		
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative	X		
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.	X		
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:

Brought by : Client
 Received by : ASmith
 Check in by/date : ASmith / 08/25/2023

ab-s005-0321



September 06, 2023

Service Request No:K2309533

Monica Martin
North Water District Lab Services (NWDLS)
130 South Trade Center Parkway
Conroe, TX 77385

Laboratory Results for: 23H3257

Dear Monica,

Enclosed are the results of the sample(s) submitted to our laboratory August 25, 2023
For your reference, these analyses have been assigned our service request number **K2309533**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3260. You may also contact me via email at Luke.Rahn@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Luke Rahn
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Client: North Water District Lab Services (NWDLS)
Project: 23H3257
Sample Matrix: Sediment

Service Request: K2309533
Date Received: 08/25/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Seven sediment samples were received for analysis at ALS Environmental on 08/25/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by _____

A handwritten signature in black ink, appearing to read 'Julie Baker', is written over a horizontal line.

Date _____

09/06/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: 23H3257-16		Lab ID: K2309533-001				
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	0.45		0.005	0.10	Percent	9060

CLIENT ID: 23H3257-17		Lab ID: K2309533-002				
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	0.17		0.005	0.10	Percent	9060

CLIENT ID: 23H3257-18		Lab ID: K2309533-003				
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	0.21		0.005	0.10	Percent	9060

CLIENT ID: 23H3257-19		Lab ID: K2309533-004				
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	0.40		0.005	0.10	Percent	9060

CLIENT ID: 23H3257-20		Lab ID: K2309533-005				
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	0.58		0.005	0.10	Percent	9060

CLIENT ID: 23H3257-21		Lab ID: K2309533-006				
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	0.52		0.005	0.10	Percent	9060

CLIENT ID: 23H3257-22		Lab ID: K2309533-007				
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	0.60		0.005	0.10	Percent	9060



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: North Water District Lab Services (NWDLS)
Project: 23H3257

Service Request:K2309533

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2309533-001	23H3257-16	8/15/2023	0858
K2309533-002	23H3257-17	8/15/2023	0959
K2309533-003	23H3257-18	8/15/2023	1109
K2309533-004	23H3257-19	8/15/2023	1155
K2309533-005	23H3257-20	8/16/2023	0930
K2309533-006	23H3257-21	8/16/2023	1040
K2309533-007	23H3257-22	8/16/2023	1140



K2309533

SUBCONTRACT ORDER

Sending Laboratory:

North Water District Laboratory Services, Inc.
 130 South Trade Center Parkway
 Conroe, TX 77385
 Phone: 936-321-6060
 Fax: 936-321-6061

Project Manager: Monica O. Martin

Subcontracted Laboratory:

ALS Kelso
 1317 South 13th Avenue
 Kelso, WA 98626
 Phone: (360) 577-7222
 Fax:

Work Order: 23H3257

Analysis	Due	Expires	Comments
Sample ID: 23H3257-16 Sediment Sampled: 08/15/2023 08:58			
TOC-9060	09/05/2023	09/12/2023 08:58	
<i>Analyte(s):</i> Total Organic Carbon (TOC)			
<i>Containers Supplied:</i>			
Sample ID: 23H3257-17 Sediment Sampled: 08/15/2023 09:59			
TOC-9060	09/05/2023	09/12/2023 09:59	
<i>Analyte(s):</i> Total Organic Carbon (TOC)			
<i>Containers Supplied:</i>			
Sample ID: 23H3257-18 Sediment Sampled: 08/15/2023 11:09			
TOC-9060	09/05/2023	09/12/2023 11:09	
<i>Analyte(s):</i> Total Organic Carbon (TOC)			
<i>Containers Supplied:</i>			
Sample ID: 23H3257-19 Sediment Sampled: 08/15/2023 11:55			
TOC-9060	09/05/2023	09/12/2023 11:55	
<i>Analyte(s):</i> Total Organic Carbon (TOC)			
<i>Containers Supplied:</i>			
Sample ID: 23H3257-20 Sediment Sampled: 08/16/2023 09:30			
TOC-9060	09/05/2023	09/13/2023 09:30	
<i>Analyte(s):</i> Total Organic Carbon (TOC)			
<i>Containers Supplied:</i>			

Work Order: 23H3257 (Continued)

Analysis	Due	Expires	Comments
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Sample ID: 23H3257-21 *Sediment* **Sampled: 08/16/2023 10:40**

TOC-9060 09/05/2023 09/13/2023 10:40

Analyte(s):
 Total Organic Carbon (TOC)

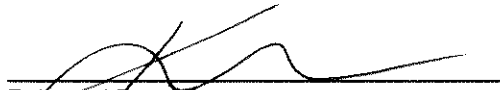
Containers Supplied:


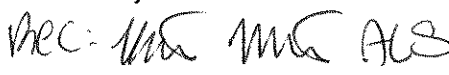
Sample ID: 23H3257-22 *Sediment* **Sampled: 08/16/2023 11:40**

TOC-9060 09/05/2023 09/13/2023 11:40

Analyte(s):
 Total Organic Carbon (TOC)

Containers Supplied:


 Released By _____ Date 8/24/23


 Received By _____ Date 8/24/23
 REC:  ALS
 8/25/23 09:15

PM lh

Cooler Receipt and Preservation Form

Client NWDLS Service Request K23 09533
Received: 8/25/23 Opened: 8/25/23 By: VM Unloaded: 8/25/23 By: VM

- 1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
- 2. Samples were received in: (circle) Cooler Box Envelope Other _____ NA
- 3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
	<u>0.9</u>	<u>IR06</u>				<u>1Z12W40V019468</u> <u>6053</u>	

- 4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
- 5. Were samples received within the method specified temperature ranges? NA Y N
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N

If applicable, tissue samples were received: Frozen Partially Thawed Thawed

- 6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves
- 7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- 8. Were samples received in good condition (unbroken) NA Y N
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
- 10. Did all sample labels and tags agree with custody papers? NA Y N
- 11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
- 13. Were VOA vials received without headspace? Indicate in the table below. NA Y N
- 14. Was C12/Res negative? NA Y N
- 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N
- 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head- space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
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www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: North Water District Lab Services (NWDLS)
Project: 23H3257/

Service Request: K2309533

Sample Name: 23H3257-16
Lab Code: K2309533-001
Sample Matrix: Sediment

Date Collected: 08/15/23
Date Received: 08/25/23

Analysis Method
9060

Extracted/Digested By
DBRADBURY

Analyzed By
DBRADBURY

Sample Name: 23H3257-17
Lab Code: K2309533-002
Sample Matrix: Sediment

Date Collected: 08/15/23
Date Received: 08/25/23

Analysis Method
9060

Extracted/Digested By
DBRADBURY

Analyzed By
DBRADBURY

Sample Name: 23H3257-18
Lab Code: K2309533-003
Sample Matrix: Sediment

Date Collected: 08/15/23
Date Received: 08/25/23

Analysis Method
9060

Extracted/Digested By
DBRADBURY

Analyzed By
DBRADBURY

Sample Name: 23H3257-19
Lab Code: K2309533-004
Sample Matrix: Sediment

Date Collected: 08/15/23
Date Received: 08/25/23

Analysis Method
9060

Extracted/Digested By
DBRADBURY

Analyzed By
DBRADBURY

Sample Name: 23H3257-20
Lab Code: K2309533-005
Sample Matrix: Sediment

Date Collected: 08/16/23
Date Received: 08/25/23

Analysis Method
9060

Extracted/Digested By
DBRADBURY

Analyzed By
DBRADBURY

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: North Water District Lab Services (NWDLS)
Project: 23H3257/

Service Request: K2309533

Sample Name: 23H3257-21
Lab Code: K2309533-006
Sample Matrix: Sediment

Date Collected: 08/16/23
Date Received: 08/25/23

Analysis Method
9060

Extracted/Digested By
DBRADBURY

Analyzed By
DBRADBURY

Sample Name: 23H3257-22
Lab Code: K2309533-007
Sample Matrix: Sediment

Date Collected: 08/16/23
Date Received: 08/25/23

Analysis Method
9060

Extracted/Digested By
DBRADBURY

Analyzed By
DBRADBURY



Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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General Chemistry

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: North Water District Lab Services (NWDLS)
Project: 23H3257
Sample Matrix: Sediment
Sample Name: 23H3257-16
Lab Code: K2309533-001

Service Request: K2309533
Date Collected: 08/15/23 08:58
Date Received: 08/25/23 09:15
Basis: Dry, per Method

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Carbon, Total Organic (TOC)	9060	0.45	Percent	0.10	0.005	1	08/31/23 14:53	08/31/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: North Water District Lab Services (NWDLS)
Project: 23H3257
Sample Matrix: Sediment
Sample Name: 23H3257-17
Lab Code: K2309533-002

Service Request: K2309533
Date Collected: 08/15/23 09:59
Date Received: 08/25/23 09:15
Basis: Dry, per Method

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Carbon, Total Organic (TOC)	9060	0.17	Percent	0.10	0.005	1	08/31/23 14:53	08/31/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: North Water District Lab Services (NWDLS)
Project: 23H3257
Sample Matrix: Sediment
Sample Name: 23H3257-18
Lab Code: K2309533-003

Service Request: K2309533
Date Collected: 08/15/23 11:09
Date Received: 08/25/23 09:15

Basis: Dry, per Method

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Carbon, Total Organic (TOC)	9060	0.21	Percent	0.10	0.005	1	08/31/23 14:53	08/31/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: North Water District Lab Services (NWDLS)
Project: 23H3257
Sample Matrix: Sediment
Sample Name: 23H3257-19
Lab Code: K2309533-004

Service Request: K2309533
Date Collected: 08/15/23 11:55
Date Received: 08/25/23 09:15
Basis: Dry, per Method

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Carbon, Total Organic (TOC)	9060	0.40	Percent	0.10	0.005	1	08/31/23 14:53	08/31/23	

ALS Group USA, Corp.
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Analytical Report

Client: North Water District Lab Services (NWDLS)
Project: 23H3257
Sample Matrix: Sediment
Sample Name: 23H3257-20
Lab Code: K2309533-005

Service Request: K2309533
Date Collected: 08/16/23 09:30
Date Received: 08/25/23 09:15
Basis: Dry, per Method

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Carbon, Total Organic (TOC)	9060	0.58	Percent	0.10	0.005	1	08/31/23 14:53	08/31/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: North Water District Lab Services (NWDLS)
Project: 23H3257
Sample Matrix: Sediment
Sample Name: 23H3257-21
Lab Code: K2309533-006

Service Request: K2309533
Date Collected: 08/16/23 10:40
Date Received: 08/25/23 09:15
Basis: Dry, per Method

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Carbon, Total Organic (TOC)	9060	0.52	Percent	0.10	0.005	1	08/31/23 14:53	08/31/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: North Water District Lab Services (NWDLS)
Project: 23H3257
Sample Matrix: Sediment
Sample Name: 23H3257-22
Lab Code: K2309533-007

Service Request: K2309533
Date Collected: 08/16/23 11:40
Date Received: 08/25/23 09:15

Basis: Dry, per Method

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Carbon, Total Organic (TOC)	9060	0.60	Percent	0.10	0.005	1	08/31/23 14:53	08/31/23	



QC Summary Forms

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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: North Water District Lab Services (NWDLS)
Project: 23H3257
Sample Matrix: Sediment
Sample Name: Method Blank
Lab Code: K2309533-MB

Service Request: K2309533
Date Collected: NA
Date Received: NA

Basis: Dry, per Method

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Carbon, Total Organic (TOC)	9060	ND U	Percent	0.10	0.005	1	08/31/23 14:53	08/31/23	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: North Water District Lab Services (NWDLS)
Project: 23H3257
Sample Matrix: Sediment

Service Request: K2309533
Date Collected: 08/15/23
Date Received: 08/25/23
Date Analyzed: 08/31/23
Date Extracted: 08/31/23

Duplicate Matrix Spike Summary
Carbon, Total Organic (TOC)

Sample Name: 23H3257-16
Lab Code: K2309533-001
Analysis Method: 9060
Prep Method: Method

Units: Percent
Basis: Dry, per Method

Analyte Name	Sample Result	Matrix Spike K2309533-001MS			Duplicate Matrix Spike K2309533-001DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Carbon, Total Organic (TOC)	0.45	2.89	2.43	100	2.91	2.44	101	70-122	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: North Water District Lab Services (NWDLS)
Project: 23H3257
Sample Matrix: Sediment

Service Request: K2309533
Date Collected: 08/15/23
Date Received: 08/25/23
Date Analyzed: 08/31/23

Replicate Sample Summary
General Chemistry Parameters

Sample Name: 23H3257-16
Lab Code: K2309533-001

Units: Percent
Basis: Dry, per Method

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample K2309533-001DUP Result	Average	RPD	RPD Limit
Carbon, Total Organic (TOC)	9060	0.10	0.005	0.45	0.45	0.450	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: North Water District Lab Services (NWDLS)
Project: 23H3257
Sample Matrix: Sediment

Service Request: K2309533
Date Analyzed: 08/31/23
Date Extracted: 08/31/23

Lab Control Sample Summary
Carbon, Total Organic (TOC)

Analysis Method: 9060
Prep Method: Method

Units: Percent
Basis: Dry, per Method
Analysis Lot: 815943

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K2309533-LCS	4.72	4.40	107	72-122



908 North Temperance Ave. ▽ Clovis, CA 93611 ▽ Phone 559-275-2175 ▽ Fax 559-275-4422

Certification Number: CA1312 (DW & WW)
NELAP Certification number: CA00046 (HW)

September 12, 2023

North Water District Laboratory Services
130 S. Trade Center Parkway
Conroe, TX 77385

Attn: Monica O. Martin

Subject: Report of Data: Case 99083

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dear Ms. Martin,

Seven soil samples for project "23H3257" were received August 22, 2023, at -5.5°C. Written results are provided on this September 12, 2023, for the requested analyses. All holding times were met.

For the EPA 8290 analysis, the samples were extracted according to the method.

If you have any questions or require further information, please contact us at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

Paula McCartney, Laboratory Director
APPL, Inc.

PM/cm
Enclosure
cc: File

EPA 8290 - DIOXINS AND FURANS

North Water District Laboratory
130 S. Trade Center Parkway
Conroe, TX 77385

Attn: Monica O. Martin

Project: 23H3257

Sample ID: 23H3257-16

Sample Collection Date: 8/15/2023

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 99083

APPL ID: BA50240

QCG: \$8290S-274825-274825

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290	1,2,3,4,6,7,8-HPCDD	9.3 J	12.5	9.3PC	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,6,7,8-HPCDF	Not detected	12.5	0.19DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,7,8,9-HPCDF	Not detected	12.5	0.29DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,7,8-HXCDD	Not detected	12.5	0.59DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,7,8-HXCDF	Not detected	12.5	0.26DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,6,7,8-HXCDD	Not detected	12.5	0.51DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,6,7,8-HXCDF	Not detected	12.5	0.22DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8,9-HXCDD	Not detected	12.5	0.76DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8,9-HXCDF	Not detected	12.5	0.38DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8-PECDD	Not detected	12.5	0.20DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8-PECDF	Not detected	12.5	0.28DL	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,4,6,7,8-HXCDF	0.33 J	12.5	0.33PC	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,4,7,8-PECDF	Not detected	12.5	0.30DL	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,7,8-TCDD	Not detected	5.0	0.36DL	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,7,8-TCDF	Not detected	5.0	0.22PC	pg/g	9/6/2023	9/8/2023
EPA 8290	OCDD	190	25.0	190PC	pg/g	9/6/2023	9/8/2023
EPA 8290	OCDF	3.7 J	25.0	3.7PC	pg/g	9/6/2023	9/8/2023
EPA 8290	TEQ	0.18	NA			9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	93.0	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	83.2	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	87.8	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	80.2	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	76.9	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	78.5	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDD (S)	73.5	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDF (S)	68.9	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-OCDD (S)	101	40-135		%	9/6/2023	9/8/2023

J = Estimated value.

Quant Method: 230731_8290
Run #: 230907_HR_24
Instrument: Magneto
Sequence: 230907
Dilution Factor: 1
Initials: LA

Printed: 9/12/2023 10:02:46 AM
Form 1 - APPL Standard GC - No MC

EPA 8290 - DIOXINS AND FURANS

North Water District Laboratory
130 S. Trade Center Parkway
Conroe, TX 77385

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Monica O. Martin

Project: 23H3257

ARF: 99083

Sample ID: 23H3257-17

APPL ID: BA50241

Sample Collection Date: 8/15/2023

QCG: \$8290S-274825-274825

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290	1,2,3,4,6,7,8-HPCDD	4.4 J	12.5	4.4PC	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,6,7,8-HPCDF	Not detected	12.5	0.31DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,7,8,9-HPCDF	Not detected	12.5	0.46DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,7,8-HXCDD	Not detected	12.5	0.49DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,7,8-HXCDF	Not detected	12.5	0.17DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,6,7,8-HXCDD	Not detected	12.5	0.42DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,6,7,8-HXCDF	0.15 J	12.5	0.15PC	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8,9-HXCDD	Not detected	12.5	0.50DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8,9-HXCDF	0.33 J	12.5	0.33PC	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8-PECDD	Not detected	12.5	0.23DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8-PECDF	Not detected	12.5	0.20DL	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,4,6,7,8-HXCDF	Not detected	12.5	0.18DL	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,4,7,8-PECDF	Not detected	12.5	0.21DL	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,7,8-TCDD	Not detected	5.0	0.25DL	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,7,8-TCDF	Not detected	5.0	0.28PC	pg/g	9/6/2023	9/8/2023
EPA 8290	OCDD	55	25.0	55PC	pg/g	9/6/2023	9/8/2023
EPA 8290	OCDF	Not detected	25.0	1.2PC	pg/g	9/6/2023	9/8/2023
EPA 8290	TEQ	0.11	NA			9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	80.6	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	70.5	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	76.8	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	69.0	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	65.0	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	66.0	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDD (S)	64.1	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDF (S)	57.1	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-OCDD (S)	81.5	40-135		%	9/6/2023	9/8/2023

J = Estimated value.

Quant Method: 230731_8290
Run #: 230907_HR_25
Instrument: Magneto
Sequence: 230907
Dilution Factor: 1
Initials: LA

Printed: 9/12/2023 10:02:46 AM
Form 1 - APPL Standard GC - No MC

EPA 8290 - DIOXINS AND FURANS

North Water District Laboratory
130 S. Trade Center Parkway
Conroe, TX 77385

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Monica O. Martin

Project: 23H3257

ARF: 99083

Sample ID: 23H3257-18

APPL ID: BA50242

Sample Collection Date: 8/15/2023

QCG: \$8290S-274825-274825

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290	1,2,3,4,6,7,8-HPCDD	Not detected	12.5	17PC	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,6,7,8-HPCDF	Not detected	12.5	2.4PC	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,7,8,9-HPCDF	Not detected	12.5	0.60DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,7,8-HXCDD	Not detected	12.5	0.29DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,7,8-HXCDF	Not detected	12.5	0.42DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,6,7,8-HXCDD	Not detected	12.5	0.25DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,6,7,8-HXCDF	Not detected	12.5	0.30PC	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8,9-HXCDD	Not detected	12.5	0.45PC	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8,9-HXCDF	Not detected	12.5	0.60DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8-PECDD	Not detected	12.5	0.47DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8-PECDF	Not detected	12.5	0.28DL	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,4,6,7,8-HXCDF	Not detected	12.5	0.38PC	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,4,7,8-PECDF	Not detected	12.5	0.29DL	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,7,8-TCDD	Not detected	5.0	0.25DL	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,7,8-TCDF	Not detected	5.0	1.4PC	pg/g	9/6/2023	9/8/2023
EPA 8290	OCDD	400	25.0	400PC	pg/g	9/6/2023	9/8/2023
EPA 8290	OCDF	12 J	25.0	12PC	pg/g	9/6/2023	9/8/2023
EPA 8290	TEQ	0.12	NA			9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	107	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	97.8	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	103	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	95.4	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	97.2	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	92.9	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDD (S)	89.2	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDF (S)	79.6	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-OCDD (S)	116	40-135		%	9/6/2023	9/8/2023

J = Estimated value.

Quant Method: 230731_8290
Run #: 230907_HR_26
Instrument: Magneto
Sequence: 230907
Dilution Factor: 1
Initials: LA

Printed: 9/12/2023 10:02:46 AM
Form 1 - APPL Standard GC - No MC

EPA 8290 - DIOXINS AND FURANS

North Water District Laboratory
130 S. Trade Center Parkway
Conroe, TX 77385

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Monica O. Martin

Project: 23H3257

ARF: 99083

Sample ID: 23H3257-19

APPL ID: BA50243

Sample Collection Date: 8/15/2023

QCG: \$8290S-274825-274825

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290	1,2,3,4,6,7,8-HPCDD	Not detected	12.5	2.8PC	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,6,7,8-HPCDF	Not detected	12.5	0.40PC	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,7,8,9-HPCDF	Not detected	12.5	0.31DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,7,8-HXCDD	Not detected	12.5	0.39PC	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,7,8-HXCDF	Not detected	12.5	0.20DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,6,7,8-HXCDD	Not detected	12.5	0.24DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,6,7,8-HXCDF	Not detected	12.5	0.17DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8,9-HXCDD	Not detected	12.5	0.41DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8,9-HXCDF	Not detected	12.5	0.29DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8-PECDD	Not detected	12.5	0.29DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8-PECDF	Not detected	12.5	0.24DL	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,4,6,7,8-HXCDF	Not detected	12.5	0.17PC	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,4,7,8-PECDF	Not detected	12.5	0.25DL	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,7,8-TCDD	Not detected	5.0	0.29DL	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,7,8-TCDF	Not detected	5.0	1.2PC	pg/g	9/6/2023	9/8/2023
EPA 8290	OCDD	Not detected	25.0	62PC	pg/g	9/6/2023	9/8/2023
EPA 8290	OCDF	0.61 J	25.0	0.61PC	pg/g	9/6/2023	9/8/2023
EPA 8290	TEQ	0.00018	NA			9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	120	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	111	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	118	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	109	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	108	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	105	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDD (S)	102	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDF (S)	94.9	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-OCDD (S)	126	40-135		%	9/6/2023	9/8/2023

J = Estimated value.

Quant Method: 230731_8290
Run #: 230907_HR_27
Instrument: Magneto
Sequence: 230907
Dilution Factor: 1
Initials: LA

Printed: 9/12/2023 10:02:46 AM
Form 1 - APPL Standard GC - No MC

EPA 8290 - DIOXINS AND FURANS

North Water District Laboratory
130 S. Trade Center Parkway
Conroe, TX 77385

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Monica O. Martin

Project: 23H3257

ARF: 99083

Sample ID: 23H3257-20

APPL ID: BA50244

Sample Collection Date: 8/16/2023

QCG: \$8290S-274825-274825

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290	1,2,3,4,6,7,8-HPCDD	24	12.5	24PC	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,6,7,8-HPCDF	Not detected	12.5	0.25DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,7,8,9-HPCDF	Not detected	12.5	0.38DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,7,8-HXCDD	Not detected	12.5	0.55DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,7,8-HXCDF	Not detected	12.5	0.34DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,6,7,8-HXCDD	Not detected	12.5	0.47DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,6,7,8-HXCDF	Not detected	12.5	0.29DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8,9-HXCDD	Not detected	12.5	0.91PC	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8,9-HXCDF	Not detected	12.5	0.48DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8-PECDD	Not detected	12.5	0.44DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8-PECDF	Not detected	12.5	0.32PC	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,4,6,7,8-HXCDF	Not detected	12.5	0.20PC	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,4,7,8-PECDF	Not detected	12.5	0.39DL	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,7,8-TCDD	Not detected	5.0	0.66PC	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,7,8-TCDF	1.2 J	5.0	1.2PC	pg/g	9/6/2023	9/8/2023
EPA 8290	OCDD	520	25.0	520PC	pg/g	9/6/2023	9/8/2023
EPA 8290	OCDF	Not detected	25.0	1.5PC	pg/g	9/6/2023	9/8/2023
EPA 8290	TEQ	0.52	NA			9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	113	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	100	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	109	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	98.7	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	104	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	98.8	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDD (S)	88.2	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDF (S)	86.4	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-OCDD (S)	119	40-135		%	9/6/2023	9/8/2023

J = Estimated value.

Quant Method: 230731_8290
Run #: 230907_HR_30
Instrument: Magneto
Sequence: 230907
Dilution Factor: 1
Initials: LA

Printed: 9/12/2023 10:02:46 AM
Form 1 - APPL Standard GC - No MC

EPA 8290 - DIOXINS AND FURANS

North Water District Laboratory
130 S. Trade Center Parkway
Conroe, TX 77385

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Monica O. Martin

Project: 23H3257

ARF: 99083

Sample ID: 23H3257-21

APPL ID: BA50245

Sample Collection Date: 8/16/2023

QCG: \$8290S-274825-274825

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290	1,2,3,4,6,7,8-HPCDD	Not detected	12.5	8.8PC	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,6,7,8-HPCDF	Not detected	12.5	0.96PC	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,7,8,9-HPCDF	Not detected	12.5	0.44DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,7,8-HXCDD	Not detected	12.5	1.0DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,4,7,8-HXCDF	Not detected	12.5	0.28DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,6,7,8-HXCDD	Not detected	12.5	0.90DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,6,7,8-HXCDF	Not detected	12.5	0.24DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8,9-HXCDD	Not detected	12.5	1.3DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8,9-HXCDF	Not detected	12.5	0.41DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8-PECDD	Not detected	12.5	0.29DL	pg/g	9/6/2023	9/8/2023
EPA 8290	1,2,3,7,8-PECDF	0.23 J	12.5	0.23PC	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,4,6,7,8-HXCDF	Not detected	12.5	0.31DL	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,4,7,8-PECDF	Not detected	12.5	0.27DL	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,7,8-TCDD	Not detected	5.0	0.38DL	pg/g	9/6/2023	9/8/2023
EPA 8290	2,3,7,8-TCDF	1.1 J	5.0	1.1PC	pg/g	9/6/2023	9/8/2023
EPA 8290	OCDD	240	25.0	240PC	pg/g	9/6/2023	9/8/2023
EPA 8290	OCDF	Not detected	25.0	2.2PC	pg/g	9/6/2023	9/8/2023
EPA 8290	TEQ	0.19	NA			9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	97.9	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	87.3	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	93.9	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	84.8	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	86.6	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	84.1	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDD (S)	77.4	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDF (S)	71.4	40-135		%	9/6/2023	9/8/2023
EPA 8290	SURROGATE: 13C-OCDD (S)	101	40-135		%	9/6/2023	9/8/2023

J = Estimated value.

Quant Method: 230731_8290
Run #: 230907_HR_31
Instrument: Magneto
Sequence: 230907
Dilution Factor: 1
Initials: LA

Printed: 9/12/2023 10:02:46 AM
Form 1 - APPL Standard GC - No MC

EPA 8290 - DIOXINS AND FURANS

North Water District Laboratory
 130 S. Trade Center Parkway
 Conroe, TX 77385

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Attn: Monica O. Martin

Project: 23H3257

ARF: 99083

Sample ID: 23H3257-22

APPL ID: BA50246

Sample Collection Date: 8/16/2023

QCG: \$8290S-274825-274825

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290	1,2,3,4,6,7,8-HPCDD	36	12.5	36PC	pg/g	9/6/2023	9/9/2023
EPA 8290	1,2,3,4,6,7,8-HPCDF	1.3 J	12.5	1.3PC	pg/g	9/6/2023	9/9/2023
EPA 8290	1,2,3,4,7,8,9-HPCDF	Not detected	12.5	0.59DL	pg/g	9/6/2023	9/9/2023
EPA 8290	1,2,3,4,7,8-HXCDD	Not detected	12.5	1.1DL	pg/g	9/6/2023	9/9/2023
EPA 8290	1,2,3,4,7,8-HXCDF	Not detected	12.5	0.43DL	pg/g	9/6/2023	9/9/2023
EPA 8290	1,2,3,6,7,8-HXCDD	Not detected	12.5	0.98DL	pg/g	9/6/2023	9/9/2023
EPA 8290	1,2,3,6,7,8-HXCDF	Not detected	12.5	0.37DL	pg/g	9/6/2023	9/9/2023
EPA 8290	1,2,3,7,8,9-HXCDD	Not detected	12.5	1.2DL	pg/g	9/6/2023	9/9/2023
EPA 8290	1,2,3,7,8,9-HXCDF	Not detected	12.5	0.62DL	pg/g	9/6/2023	9/9/2023
EPA 8290	1,2,3,7,8-PECDD	Not detected	12.5	0.73DL	pg/g	9/6/2023	9/9/2023
EPA 8290	1,2,3,7,8-PECDF	Not detected	12.5	0.38DL	pg/g	9/6/2023	9/9/2023
EPA 8290	2,3,4,6,7,8-HXCDF	Not detected	12.5	0.46DL	pg/g	9/6/2023	9/9/2023
EPA 8290	2,3,4,7,8-PECDF	Not detected	12.5	0.40DL	pg/g	9/6/2023	9/9/2023
EPA 8290	2,3,7,8-TCDD	Not detected	5.0	0.36DL	pg/g	9/6/2023	9/9/2023
EPA 8290	2,3,7,8-TCDF	Not detected	5.0	0.99PC	pg/g	9/6/2023	9/9/2023
EPA 8290	OCDD	880	25.0	880PC	pg/g	9/6/2023	9/9/2023
EPA 8290	OCDF	4.8 J	25.0	4.8PC	pg/g	9/6/2023	9/9/2023
EPA 8290	TEQ	0.64	NA			9/6/2023	9/9/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	101	40-135		%	9/6/2023	9/9/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	92.8	40-135		%	9/6/2023	9/9/2023
EPA 8290	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	102	40-135		%	9/6/2023	9/9/2023
EPA 8290	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	91.3	40-135		%	9/6/2023	9/9/2023
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	93.4	40-135		%	9/6/2023	9/9/2023
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	90.5	40-135		%	9/6/2023	9/9/2023
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDD (S)	84.5	40-135		%	9/6/2023	9/9/2023
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDF (S)	80.2	40-135		%	9/6/2023	9/9/2023
EPA 8290	SURROGATE: 13C-OCDD (S)	107	40-135		%	9/6/2023	9/9/2023

J = Estimated value.

Quant Method: 230731_8290
 Run #: 230907_HR_32
 Instrument: Magneto
 Sequence: 230907
 Dilution Factor: 1
 Initials: LA

Printed: 9/12/2023 10:02:46 AM
 Form 1 - APPL Standard GC - No MC

Method Blank

EPA 8290 - DIOXINS AND FURANS

Blank Name/QCG: **230906S-50240 - 274825**
 Batch ID: \$8290S-274825

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
BLANK	1,2,3,4,6,7,8-HPCDD	Not detected	12.5	0.56PC	pg/g	9/6/2023	9/8/2023
BLANK	1,2,3,4,6,7,8-HPCDF	Not detected	12.5	0.25DL	pg/g	9/6/2023	9/8/2023
BLANK	1,2,3,4,7,8,9-HPCDF	Not detected	12.5	0.37DL	pg/g	9/6/2023	9/8/2023
BLANK	1,2,3,4,7,8-HXCDD	Not detected	12.5	0.097DL	pg/g	9/6/2023	9/8/2023
BLANK	1,2,3,4,7,8-HXCDF	Not detected	12.5	0.12DL	pg/g	9/6/2023	9/8/2023
BLANK	1,2,3,6,7,8-HXCDD	Not detected	12.5	0.084DL	pg/g	9/6/2023	9/8/2023
BLANK	1,2,3,6,7,8-HXCDF	Not detected	12.5	0.099DL	pg/g	9/6/2023	9/8/2023
BLANK	1,2,3,7,8,9-HXCDD	Not detected	12.5	0.13PC	pg/g	9/6/2023	9/8/2023
BLANK	1,2,3,7,8,9-HXCDF	Not detected	12.5	0.17DL	pg/g	9/6/2023	9/8/2023
BLANK	1,2,3,7,8-PECDD	Not detected	12.5	0.14PC	pg/g	9/6/2023	9/8/2023
BLANK	1,2,3,7,8-PECDF	Not detected	12.5	0.097DL	pg/g	9/6/2023	9/8/2023
BLANK	2,3,4,6,7,8-HXCDF	Not detected	12.5	0.13DL	pg/g	9/6/2023	9/8/2023
BLANK	2,3,4,7,8-PECDF	0.14 J	12.5	0.14PC	pg/g	9/6/2023	9/8/2023
BLANK	2,3,7,8-TCDD	Not detected	5.0	0.15DL	pg/g	9/6/2023	9/8/2023
BLANK	2,3,7,8-TCDF	Not detected	5.0	0.22DL	pg/g	9/6/2023	9/8/2023
BLANK	OCDD	2.4 J	25.0	2.4PC	pg/g	9/6/2023	9/8/2023
BLANK	OCDF	Not detected	25.0	0.57DL	pg/g	9/6/2023	9/8/2023
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	102	40-135		%	9/6/2023	9/8/2023
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	91.1	40-135		%	9/6/2023	9/8/2023
BLANK	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	91.7	40-135		%	9/6/2023	9/8/2023
BLANK	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	86.1	40-135		%	9/6/2023	9/8/2023
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	77.0	40-135		%	9/6/2023	9/8/2023
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	83.4	40-135		%	9/6/2023	9/8/2023
BLANK	SURROGATE: 13C-2,3,7,8-TCDD (S)	79.6	40-135		%	9/6/2023	9/8/2023
BLANK	SURROGATE: 13C-2,3,7,8-TCDF (S)	72.9	40-135		%	9/6/2023	9/8/2023
BLANK	SURROGATE: 13C-OCDD (S)	108	40-135		%	9/6/2023	9/8/2023

J = Estimated value.

Quant Method: 230731_8290
Run #: 230907_HR_23
Instrument: Magneto
Sequence: 230907
Initials: LA

Laboratory Control Spike Recoveries

EPA 8290 - DIOXINS AND FURANS

APPL ID: 230906S-50240 LCS - 274825

Batch ID: #8290S-274825

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl pg/g	SPK Result pg/g	DUP Result pg/g	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,2,3,4,6,7,8-HPCDD	125	127	143	102	114	70-130	11.9	30
1,2,3,4,6,7,8-HPCDF	125	136	139	109	111	70-130	2.2	30
1,2,3,4,7,8,9-HPCDF	125	134	136	107	109	70-130	1.5	30
1,2,3,4,7,8-HXCDD	125	132	132	106	106	70-130	0.0	30
1,2,3,4,7,8-HXCDF	125	114	120	91.2	96.0	70-130	5.1	30
1,2,3,6,7,8-HXCDD	125	126	126	101	101	70-130	0.0	30
1,2,3,6,7,8-HXCDF	125	103	109	82.4	87.2	70-130	5.7	30
1,2,3,7,8,9-HXCDD	125	130	129	104	103	70-130	0.77	30
1,2,3,7,8,9-HXCDF	125	115	119	92.0	95.2	70-130	3.4	30
1,2,3,7,8-PECDD	125	120	130	96.0	104	70-130	8.0	30
1,2,3,7,8-PECDF	125	128	133	102	106	70-130	3.8	30
2,3,4,6,7,8-HXCDF	125	121	120	96.8	96.0	70-130	0.83	30
2,3,4,7,8-PECDF	125	113	124	90.4	99.2	70-130	9.3	30
2,3,7,8-TCDD	50.0	45.5	50.4	91.0	101	70-130	10.2	30
2,3,7,8-TCDF	50.0	50.3	55.7	101	111	70-130	10.2	30
OCDD	250	274	244	110	97.6	70-130	11.6	30
OCDF	250	227	231	90.8	92.4	70-130	1.7	30

SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (	500	445	472	89.0	94.4	40-135		
SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (	500	408	446	81.6	89.2	40-135		
SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S	500	430	476	86.0	95.2	40-135		
SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S	500	379	438	75.8	87.6	40-135		
SURROGATE: 13C-1,2,3,7,8-PECDD (S)	200	140	149	70.0	74.5	40-135		
SURROGATE: 13C-1,2,3,7,8-PECDF (S)	200	149	155	74.5	77.5	40-135		
SURROGATE: 13C-2,3,7,8-TCDD (S)	200	140	147	70.0	73.5	40-135		

Comments: _____

Primary	SPK	DUP
Quant Method :	230731_8290	230731_8290
Extraction Date :	9/6/2023	9/6/2023
Analysis Date :	9/8/2023	9/8/2023
Instrument :	Magneto	Magneto
Run :	230907_HR_21	230907_HR_22
Initials :	LA	

Laboratory Control Spike Recoveries

EPA 8290 - DIOXINS AND FURANS

APPL ID: 230906S-50240 LCS - 274825

Batch ID: #8290S-274825

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl pg/g	SPK Result pg/g	DUP Result pg/g	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
SURROGATE: 13C-2,3,7,8-TCDF (S)	200	130	136	65.0	68.0	40-135		
SURROGATE: 13C-OCDD (S)	1000	908	994	90.8	99.4	40-135		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	230731_8290	230731_8290
Extraction Date :	9/6/2023	9/6/2023
Analysis Date :	9/8/2023	9/8/2023
Instrument :	Magneto	Magneto
Run :	230907_HR_21	230907_HR_22
Initials :	LA	



SUBCONTRACT ORDER

99083

Sending Laboratory:

North Water District Laboratory Services, Inc.
 130 South Trade Center Parkway
 Conroe, TX 77385
 Phone: 936-321-6060
 Fax: 936-321-6061

Project Manager: Monica O. Martin

Subcontracted Laboratory:

Agriculture & Priority Pollutants Lab, Inc. (APPL)
 908 North Temperance Avenue
 Clovis, CA 93611
 Phone: (559) 275-2175
 Fax:

Work Order: 23H3257

Analysis	Due	Expires	Comments
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Sample ID: 23H3257-16 *Sediment* **Sampled: 08/15/2023 08:58**

Sub_Dioxin-Furan	08/31/2023	08/22/2023	08:58
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Containers Supplied:

Sample ID: 23H3257-17 *Sediment* **Sampled: 08/15/2023 09:59**

Sub_Dioxin-Furan	08/31/2023	08/22/2023	09:59
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Containers Supplied:

Sample ID: 23H3257-18 *Sediment* **Sampled: 08/15/2023 11:09**

Sub_Dioxin-Furan	08/31/2023	08/22/2023	11:09
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Containers Supplied:

Sample ID: 23H3257-19 *Sediment* **Sampled: 08/15/2023 11:55**

Sub_Dioxin-Furan	08/31/2023	08/22/2023	11:55
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Containers Supplied:

Sample ID: 23H3257-20 *Sediment* **Sampled: 08/16/2023 09:30**

Sub_Dioxin-Furan	08/31/2023	08/23/2023	09:30
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Containers Supplied:

Work Order: 23H3257 (Continued)

Analysis	Due	Expires	Comments
Sample ID: 23H3257-21 Sediment Sampled: 08/16/2023 10:40			
Sub_Dioxin-Furan	08/31/2023	08/23/2023	10:40

Containers Supplied:

Sample ID: 23H3257-22 Sediment Sampled: 08/16/2023 11:40			
Sub_Dioxin-Furan	08/31/2023	08/23/2023	11:40

Containers Supplied:

Released By SEL Date 8/21/23

Received By UPS Date 8/21/23

John Henig 8/22/23
10:00
IRB: -29/-5.5 °C



June 10, 2024

LAB REPORT

Sara Flaherty
Anchor QEA, LLC
1201 3rd Avenue, Suite 2600
Seattle, WA 98101

Report ID: 20240610144735MM

RE: Galveston Bay 2023

The following test results meet all NELAP requirements for analytes for which certification is available. Any deviations from our quality system will be noted in the case narrative. All analyses performed by North Water District Laboratory Services, Inc. unless noted.

For questions regarding this report, contact Monica Martin at 936-321-6060.

Sincerely,

Monica O. Martin
Chief Operating Officer



Anchor QEA, LLC
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101

Project: Galveston Bay 2023
 Project Number:
 Project Manager: Sara Flaherty

Reported:
 06/10/2024 14:47

Sample Results

Client Sample ID: CPC-EQ BLK
 Lab Sample ID: 24D3569-01
 Sample Alias:

Sample Matrix: 18 MOhm DI Water
 Date Collected: 04/25/2024 13:45
 Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Metals, Total

EPA 245.1	Mercury	A	<0.150U	ug/L	1	0.150	0.200	BHD4351	04/29/2024 14:56	ISS
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Metals, Dissolved

EPA 200.8	Antimony	A	<0.200U	ug/L	1	0.200	1.00	BHE1117	05/20/2024 12:11	JKC
EPA 200.8	Arsenic	A	0.102J	ug/L	1	0.100	0.500	BHE1117	05/17/2024 17:18	JKC
EPA 200.8	Cadmium	A	<0.0500U	ug/L	1	0.0500	1.00	BHE1117	05/17/2024 17:18	JKC
EPA 200.8	Chromium	A	<0.0800U	ug/L	1	0.0800	3.00	BHE1117	05/20/2024 10:25	JKC
EPA 200.8	Copper	A	<0.200B, U	ug/L	1	0.200	1.00	BHE1117	05/17/2024 17:18	JKC
EPA 200.8	Lead	A	<0.100U	ug/L	1	0.100	0.500	BHE1117	05/17/2024 17:18	JKC
EPA 200.8	Nickel	A	0.207V, J	ug/L	1	0.0500	1.00	BHE1117	05/17/2024 17:18	JKC
EPA 200.8	Silver	A	<0.0300U	ug/L	1	0.0300	0.500	BHE1117	05/17/2024 17:18	JKC
EPA 200.8	Zinc	A	1.06V, J	ug/L	1	0.200	2.00	BHE1117	05/17/2024 17:18	JKC

Anchor QEA, LLC
1201 3rd Avenue, Suite 2600
Seattle, WA 98101

Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
06/10/2024 14:47

Sample Results
(Continued)

Client Sample ID: CPC-08-SW-4-25-24
Lab Sample ID: 24D3569-02
Sample Alias:

Sample Matrix: Marine Water
Date Collected: 04/25/2024 13:00
Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	2,4-Dichlorophenol	A	<0.554U	ug/L	1	0.554	1.11	BHE0409	05/14/2024 02:05	KRB
SW-8270	2,4-Dimethylphenol	A	<0.554U	ug/L	1	0.554	1.11	BHE0409	05/14/2024 02:05	KRB
SW-8270	2,4-Dinitrophenol	A	<4.45U	ug/L	1	4.45	4.45	BHE0409	05/14/2024 02:05	KRB
SW-8270	Acenaphthene	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	Acenaphthylene	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	Anthracene	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	Benzo(a)anthracene	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	Benzo(a)pyrene	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	Benzo(b)fluoranthene	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	Benzo(g,h,i)perylene	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	Benzo(k)fluoranthene	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	Chrysene	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	Diethyl phthalate	A	0.592V	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	Fluoranthene	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	Fluorene	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	Hexachlorobenzene	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	Naphthalene	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	Pentachlorophenol	A	<0.554U	ug/L	1	0.554	1.11	BHE0409	05/14/2024 02:05	KRB
SW-8270	Phenanthrene	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB
SW-8270	Phenol, Total	A	2.75V	ug/L	1	0.554	1.11	BHE0409	05/14/2024 02:05	KRB
SW-8270	Pyrene	A	<0.278U	ug/L	1	0.278	0.556	BHE0409	05/14/2024 02:05	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		98.3%	54.6-148					05/14/2024 02:05	
SW-8270	Surrogate: 2-Fluorophenol-surr		111%	55-152					05/14/2024 02:05	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		115%	52.4-136					05/14/2024 02:05	
SW-8270	Surrogate: Nitrobenzene-d5-surr		109%	52-162					05/14/2024 02:05	
SW-8270	Surrogate: Phenol-d5-surr		113%	58.7-152					05/14/2024 02:05	
SW-8270	Surrogate: p-Terphenyl-d14-surr		76.4%	51.9-147					05/14/2024 02:05	

Organics by GC

SW-8081	4,4'-DDD	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	4,4'-DDE	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	4,4'-DDT	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB

Anchor QEA, LLC
1201 3rd Avenue, Suite 2600
Seattle, WA 98101

Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
06/10/2024 14:47

Sample Results (Continued)

Client Sample ID: CPC-08-SW-4-25-24 (Continued)
Lab Sample ID: 24D3569-02
Sample Alias:

Sample Matrix: Marine Water
Date Collected: 04/25/2024 13:00
Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8081	Aldrin	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	Chlordane (Total)	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	delta-BHC	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	Dieldrin	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	Endosulfan I	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	Endosulfan II	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	Endosulfan sulfate	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	Endrin	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	Endrin aldehyde	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	Endrin ketone	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	gamma-Chlordane	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	Heptachlor	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	Heptachlor epoxide	A	<0.00599U	ug/L	1	0.00599	0.00599	BHE0407	05/21/2024 02:12	KRB
SW-8081	Toxaphene (Chlorinated Camphene)	A	<0.300U	ug/L	1	0.300	0.300	BHE0407	05/21/2024 02:12	KRB

SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		64.1%	60-140					05/21/2024 02:12	
SW-8081	Surrogate: Decachlorobiphenyl-surr		44.7% S	60-140					05/21/2024 02:12	
SW-8082	PCBs, Total	A	<0.00280B, U	ug/L	1	0.00280	0.120	BHE0150	05/07/2024 06:21	KRB
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		76.8%	60-140					05/07/2024 06:21	
SW-8082	Surrogate: Decachlorobiphenyl-surr		30.3% S	60-140					05/07/2024 06:21	

Metals, Total

EPA 245.1	Mercury	A	<0.150U	ug/L	1	0.150	0.200	BHD4351	04/29/2024 14:59	ISS
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Metals, Dissolved

EPA 200.8	Antimony	A	<1.00U	ug/L	5	1.00	5.00	BHE1117	05/20/2024 12:04	JKC
EPA 200.8	Arsenic	A	1.67J	ug/L	5	0.500	2.50	BHE1117	05/17/2024 17:10	JKC
EPA 200.8	Cadmium	A	<0.250U	ug/L	5	0.250	5.00	BHE1117	05/17/2024 17:10	JKC
EPA 200.8	Chromium	A	<0.400U	ug/L	5	0.400	15.0	BHE1117	05/20/2024 10:17	JKC
EPA 200.8	Copper	A	1.14V, J	ug/L	5	1.00	5.00	BHE1117	05/17/2024 17:10	JKC



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Project: Galveston Bay 2023
 Project Number:
 Project Manager: Sara Flaherty

Reported:
 06/10/2024 14:47

Sample Results
(Continued)

Client Sample ID: CPC-08-SW-4-25-24 (Continued)
 Lab Sample ID: 24D3569-02
 Sample Alias:

Sample Matrix: Marine Water
 Date Collected: 04/25/2024 13:00
 Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Metals, Dissolved (Continued)

EPA 200.8	Lead	A	<0.500U	ug/L	5	0.500	2.50	BHE1117	05/17/2024 17:10	JKC
EPA 200.8	Nickel	A	1.51V, J	ug/L	5	0.250	5.00	BHE1117	05/17/2024 17:10	JKC
EPA 200.8	Silver	A	<0.150U	ug/L	5	0.150	2.50	BHE1117	05/17/2024 17:10	JKC
EPA 200.8	Zinc	A	2.64V, J	ug/L	5	1.00	10.0	BHE1117	05/17/2024 17:10	JKC

General Chemistry

EPA 350.1	Ammonia as N	A	0.0340J	mg/L	1	0.0200	0.0500	BHD4759	04/30/2024 16:16	NAZ
SM 5310 C	Total Organic Carbon (TOC)	A	5.15	mg/L	1	0.451	1.00	BHD5091	04/30/2024 23:27	MLB

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Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
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Sample Results
(Continued)

Client Sample ID: CPC-09-SW-4-25-24
Lab Sample ID: 24D3569-03
Sample Alias:

Sample Matrix: Marine Water
Date Collected: 04/25/2024 10:50
Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	2,4-Dichlorophenol	A	<0.558U	ug/L	1	0.558	1.12	BHE0409	05/14/2024 01:29	KRB
SW-8270	2,4-Dimethylphenol	A	<0.558U	ug/L	1	0.558	1.12	BHE0409	05/14/2024 01:29	KRB
SW-8270	2,4-Dinitrophenol	A	<4.48U	ug/L	1	4.48	4.48	BHE0409	05/14/2024 01:29	KRB
SW-8270	Acenaphthene	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	Acenaphthylene	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	Anthracene	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	Benzo(a)anthracene	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	Benzo(a)pyrene	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	Benzo(b)fluoranthene	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	Benzo(g,h,i)perylene	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	Benzo(k)fluoranthene	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	Chrysene	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	Diethyl phthalate	A	0.644V	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	Fluoranthene	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	Fluorene	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	Hexachlorobenzene	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	Naphthalene	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	Pentachlorophenol	A	<0.558U	ug/L	1	0.558	1.12	BHE0409	05/14/2024 01:29	KRB
SW-8270	Phenanthrene	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB
SW-8270	Phenol, Total	A	2.52V	ug/L	1	0.558	1.12	BHE0409	05/14/2024 01:29	KRB
SW-8270	Pyrene	A	<0.280U	ug/L	1	0.280	0.560	BHE0409	05/14/2024 01:29	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		91.0%	54.6-148					05/14/2024 01:29	
SW-8270	Surrogate: 2-Fluorophenol-surr		97.7%	55-152					05/14/2024 01:29	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		108%	52.4-136					05/14/2024 01:29	
SW-8270	Surrogate: Nitrobenzene-d5-surr		106%	52-162					05/14/2024 01:29	
SW-8270	Surrogate: Phenol-d5-surr		102%	58.7-152					05/14/2024 01:29	
SW-8270	Surrogate: p-Terphenyl-d14-surr		79.0%	51.9-147					05/14/2024 01:29	

Organics by GC

SW-8081	4,4'-DDD	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	4,4'-DDE	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	4,4'-DDT	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB

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Sample Results (Continued)

Client Sample ID: CPC-09-SW-4-25-24 (Continued)
Lab Sample ID: 24D3569-03
Sample Alias:

Sample Matrix: Marine Water
Date Collected: 04/25/2024 10:50
Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8081	Aldrin	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane)	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	beta-BHC (beta-Hexachlorocyclohexane)	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	Chlordane (Total)	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	cis-Chlordane (alpha-Chlordane)	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	delta-BHC	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	Dieldrin	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	Endosulfan I	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	Endosulfan II	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	Endosulfan sulfate	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	Endrin	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	Endrin aldehyde	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	Endrin ketone	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	gamma-Chlordane	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	Heptachlor	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	Heptachlor epoxide	A	<0.00598U	ug/L	1	0.00598	0.00598	BHE0407	05/21/2024 02:36	KRB
SW-8081	Toxaphene (Chlorinated Camphene)	A	<0.299U	ug/L	1	0.299	0.299	BHE0407	05/21/2024 02:36	KRB
SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		55.3% S	60-140					05/21/2024 02:36	
SW-8081	Surrogate: Decachlorobiphenyl-surr		48.4% S	60-140					05/21/2024 02:36	
SW-8082	PCBs, Total	A	<0.00280B, U	ug/L	1	0.00280	0.120	BHE0150	05/07/2024 06:46	KRB
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		65.0%	60-140					05/07/2024 06:46	
SW-8082	Surrogate: Decachlorobiphenyl-surr		30.8% S	60-140					05/07/2024 06:46	

Metals, Total

EPA 245.1	Mercury	A	<0.150U	ug/L	1	0.150	0.200	BHD4351	04/29/2024 15:03	ISS
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Metals, Dissolved

EPA 200.8	Antimony	A	<1.00U	ug/L	5	1.00	5.00	BHE1117	05/20/2024 12:14	JKC
EPA 200.8	Arsenic	A	1.62J	ug/L	5	0.500	2.50	BHE1117	05/17/2024 17:21	JKC
EPA 200.8	Cadmium	A	<0.250U	ug/L	5	0.250	5.00	BHE1117	05/17/2024 17:21	JKC
EPA 200.8	Chromium	A	<0.400U	ug/L	5	0.400	15.0	BHE1117	05/20/2024 10:27	JKC
EPA 200.8	Copper	A	1.31V, J	ug/L	5	1.00	5.00	BHE1117	05/17/2024 17:21	JKC



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 Project Number:
 Project Manager: Sara Flaherty

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Sample Results
(Continued)

Client Sample ID: CPC-09-SW-4-25-24 (Continued)
 Lab Sample ID: 24D3569-03
 Sample Alias:

Sample Matrix: Marine Water
 Date Collected: 04/25/2024 10:50
 Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Metals, Dissolved (Continued)

EPA 200.8	Lead	A	<0.500U	ug/L	5	0.500	2.50	BHE1117	05/17/2024 17:21	JKC
EPA 200.8	Nickel	A	1.54V, J	ug/L	5	0.250	5.00	BHE1117	05/17/2024 17:21	JKC
EPA 200.8	Silver	A	<0.150U	ug/L	5	0.150	2.50	BHE1117	05/17/2024 17:21	JKC
EPA 200.8	Zinc	A	1.97V, J	ug/L	5	1.00	10.0	BHE1117	05/17/2024 17:21	JKC

General Chemistry

EPA 350.1	Ammonia as N	A	0.0200J	mg/L	1	0.0200	0.0500	BHD4758	04/30/2024 15:40	NAZ
SM 5310 C	Total Organic Carbon (TOC)	A	5.32	mg/L	1	0.451	1.00	BHD5091	04/30/2024 23:50	MLB

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Project Number:
Project Manager: Sara Flaherty

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Sample Results
(Continued)

Client Sample ID: CPC-08-SET-4-25-24
Lab Sample ID: 24D3569-04
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 04/25/2024 13:35
Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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General Chemistry

SM 5310 C	Total Organic Carbon (TOC)	A	6.26	mg/L	1	0.451	1.00	BHE0881	05/07/2024 01:34	MLB
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Elutriate Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	2,4-Dichlorophenol	A	<0.560U	ug/L	1	0.560	1.12	BHE0409	05/14/2024 06:47	KRB
SW-8270	2,4-Dimethylphenol	A	<0.560U	ug/L	1	0.560	1.12	BHE0409	05/14/2024 06:47	KRB
SW-8270	2,4-Dinitrophenol	A	<4.50U	ug/L	1	4.50	4.50	BHE0409	05/14/2024 06:47	KRB
SW-8270	Acenaphthene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	Acenaphthylene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	Anthracene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	Benzo(a)anthracene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	Benzo(a)pyrene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	Benzo(b)fluoranthene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	Benzo(g,h,i)perylene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	Benzo(k)fluoranthene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	Chrysene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	Diethyl phtalate	A	0.496V, V2, J	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	Fluoranthene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	Fluorene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	Hexachlorobenzene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	Naphthalene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	Pentachlorophenol	A	<0.560U	ug/L	1	0.560	1.12	BHE0409	05/14/2024 06:47	KRB
SW-8270	Phenanthrene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB
SW-8270	Phenol, Total	A	3.17V, V2	ug/L	1	0.560	1.12	BHE0409	05/14/2024 06:47	KRB
SW-8270	Pyrene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 06:47	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		96.3%	54.6-148					05/14/2024 06:47	
SW-8270	Surrogate: 2-Fluorophenol-surr		106%	55-152					05/14/2024 06:47	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		115%	52.4-136					05/14/2024 06:47	
SW-8270	Surrogate: Nitrobenzene-d5-surr		114%	52-162					05/14/2024 06:47	
SW-8270	Surrogate: Phenol-d5-surr		109%	58.7-152					05/14/2024 06:47	
SW-8270	Surrogate: p-Terphenyl-d14-surr		95.3%	51.9-147					05/14/2024 06:47	

Elutriate Organics by GC

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Project Number:
Project Manager: Sara Flaherty

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Sample Results
(Continued)

Client Sample ID: CPC-08-SET-4-25-24 (Continued)
Lab Sample ID: 24D3569-04
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 04/25/2024 13:35
Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Organics by GC (Continued)

SW-8081	Toxaphene (Chlorinated Camphene)	A	<0.300U	ug/L	1	0.300	0.300	BHE0407	05/20/2024 05:50	KRB
<i>SW-8081</i>	<i>Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr</i>		<i>118%</i>	<i>60-140</i>					<i>05/20/2024 05:50</i>	
<i>SW-8081</i>	<i>Surrogate: Decachlorobiphenyl-surr</i>		<i>94.3%</i>	<i>60-140</i>					<i>05/20/2024 05:50</i>	
SW-8082	PCBs, Total	A	<0.00280U	ug/L	1	0.00280	0.120	BHE0861	05/07/2024 10:34	KRB
<i>SW-8082</i>	<i>Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr</i>		<i>76.9%</i>	<i>60-140</i>					<i>05/07/2024 10:34</i>	
<i>SW-8082</i>	<i>Surrogate: Decachlorobiphenyl-surr</i>		<i>44.1% S</i>	<i>60-140</i>					<i>05/07/2024 10:34</i>	

Elutriate Metals, Dissolved

EPA 200.8	Antimony	A	2.78V, V2, J	ug/L	1	1.00	5.00	BHE3260	05/20/2024 15:17	JKC
EPA 200.8	Arsenic	A	3.19	ug/L	1	0.500	2.50	BHE3260	05/20/2024 15:17	JKC
EPA 200.8	Cadmium	A	<0.250U	ug/L	1	0.250	5.00	BHE3260	05/20/2024 15:17	JKC
EPA 200.8	Chromium	A	0.570J	ug/L	1	0.400	15.0	BHE3260	05/20/2024 15:17	JKC
EPA 200.8	Copper	A	1.42V, V2, J	ug/L	1	1.00	5.00	BHE3260	05/20/2024 15:17	JKC
EPA 200.8	Lead	A	<0.500U	ug/L	1	0.500	2.50	BHE3260	05/20/2024 15:17	JKC
EPA 200.8	Nickel	A	1.78V2, J	ug/L	1	0.250	5.00	BHE3260	05/20/2024 15:17	JKC
EPA 200.8	Silver	A	<0.150U	ug/L	1	0.150	2.50	BHE3260	05/20/2024 15:17	JKC
EPA 200.8	Zinc	A	8.27V2, J	ug/L	1	1.00	10.0	BHE3260	05/21/2024 09:18	JKC

Elutriate Metals, Total

EPA 245.1	Mercury	A	<0.150B2, U	ug/L	1	0.150	0.200	BHE0280	05/07/2024 14:09	ISS
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Anchor QEA, LLC
1201 3rd Avenue, Suite 2600
Seattle, WA 98101

Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
06/10/2024 14:47

Sample Results
(Continued)

Client Sample ID: CPC-08-SET-4-25-24
Lab Sample ID: 24D3569-04RE1
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 04/25/2024 13:35
Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
Elutriate Organics by GC										
SW-8081	4,4'-DDD (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	4,4'-DDE (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	4,4'-DDT (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	Aldrin (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane) (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	beta-BHC (beta-Hexachlorocyclohexane) (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	Chlordane (Total) (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	cis-Chlordane (alpha-Chlordane) (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	delta-BHC (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	Dieldrin (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	Endosulfan I (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	Endosulfan II (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	Endosulfan sulfate (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	Endrin (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	Endrin aldehyde (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	Endrin ketone (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane) (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	gamma-Chlordane (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	Heptachlor (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	Heptachlor epoxide (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:23	KRB
SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		74.0%	60-140					05/21/2024 01:23	
SW-8081	Surrogate: Decachlorobiphenyl-surr (Rerun)		60.8%	60-140					05/21/2024 01:23	



Anchor QEA, LLC
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 Seattle, WA 98101

Project: Galveston Bay 2023
 Project Number:
 Project Manager: Sara Flaherty

Reported:
 06/10/2024 14:47

Sample Results
 (Continued)

Client Sample ID: CPC-08-SET-4-25-24
 Lab Sample ID: 24D3569-04RE2
 Sample Alias:

Sample Matrix: Elutriate
 Date Collected: 04/25/2024 13:35
 Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate General Chemistry

EPA 350.1	Ammonia as N (Rerun)	A	0.280	mg/L	1	0.0200	0.0500	BHE2396	05/15/2024 12:51	NAZ
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Anchor QEA, LLC
1201 3rd Avenue, Suite 2600
Seattle, WA 98101

Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
06/10/2024 14:47

Sample Results
(Continued)

Client Sample ID: CPC-09-SET-4-25-24
Lab Sample ID: 24D3569-05
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 04/25/2024 11:55
Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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General Chemistry

SM 5310 C	Total Organic Carbon (TOC)	A	6.08	mg/L	1	0.451	1.00	BHE0881	05/07/2024 01:58	MLB
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Elutriate Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	2,4-Dichlorophenol	A	<0.560U	ug/L	1	0.560	1.12	BHE0409	05/14/2024 07:22	KRB
SW-8270	2,4-Dimethylphenol	A	<0.560U	ug/L	1	0.560	1.12	BHE0409	05/14/2024 07:22	KRB
SW-8270	2,4-Dinitrophenol	A	<4.50U	ug/L	1	4.50	4.50	BHE0409	05/14/2024 07:22	KRB
SW-8270	Acenaphthene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	Acenaphthylene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	Anthracene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	Benzo(a)anthracene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	Benzo(a)pyrene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	Benzo(b)fluoranthene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	Benzo(g,h,i)perylene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	Benzo(k)fluoranthene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	Chrysene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	Dibenzo(a,h)anthracene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	Diethyl phtalate	A	0.388V, V2, J	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	Fluoranthene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	Fluorene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	Hexachlorobenzene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	Naphthalene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	Pentachlorophenol	A	<0.560U	ug/L	1	0.560	1.12	BHE0409	05/14/2024 07:22	KRB
SW-8270	Phenanthrene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	Phenol, Total	A	3.32V, V2	ug/L	1	0.560	1.12	BHE0409	05/14/2024 07:22	KRB
SW-8270	Pyrene	A	<0.281U	ug/L	1	0.281	0.562	BHE0409	05/14/2024 07:22	KRB
SW-8270	Surrogate: 2-Fluorobiphenyl-surr		104%	54.6-148					05/14/2024 07:22	
SW-8270	Surrogate: 2-Fluorophenol-surr		112%	55-152					05/14/2024 07:22	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		123%	52.4-136					05/14/2024 07:22	
SW-8270	Surrogate: Nitrobenzene-d5-surr		125%	52-162					05/14/2024 07:22	
SW-8270	Surrogate: Phenol-d5-surr		116%	58.7-152					05/14/2024 07:22	
SW-8270	Surrogate: p-Terphenyl-d14-surr		102%	51.9-147					05/14/2024 07:22	

Elutriate Organics by GC

Anchor QEA, LLC
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Seattle, WA 98101

Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
06/10/2024 14:47

Sample Results
(Continued)

Client Sample ID: CPC-09-SET-4-25-24 (Continued)
Lab Sample ID: 24D3569-05
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 04/25/2024 11:55
Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Elutriate Organics by GC (Continued)

SW-8081	Toxaphene (Chlorinated Camphene)	A	<0.300U	ug/L	1	0.300	0.300	BHE0407	05/20/2024 06:15	KRB
<i>SW-8081</i>	<i>Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr</i>		<i>80.9%</i>	<i>60-140</i>					<i>05/20/2024 06:15</i>	
<i>SW-8081</i>	<i>Surrogate: Decachlorobiphenyl-surr</i>		<i>57.4% S</i>	<i>60-140</i>					<i>05/20/2024 06:15</i>	
SW-8082	PCBs, Total	A	<0.00280U	ug/L	1	0.00280	0.120	BHE0861	05/07/2024 10:59	KRB
<i>SW-8082</i>	<i>Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr</i>		<i>78.3%</i>	<i>60-140</i>					<i>05/07/2024 10:59</i>	
<i>SW-8082</i>	<i>Surrogate: Decachlorobiphenyl-surr</i>		<i>36.2% S</i>	<i>60-140</i>					<i>05/07/2024 10:59</i>	

Elutriate Metals, Dissolved

EPA 200.8	Antimony	A	3.30V, V2, J	ug/L	5	1.00	5.00	BHE3260	05/20/2024 15:24	JKC
EPA 200.8	Arsenic	A	9.06	ug/L	5	0.500	2.50	BHE3260	05/20/2024 15:24	JKC
EPA 200.8	Cadmium	A	<0.250U	ug/L	5	0.250	5.00	BHE3260	05/20/2024 15:24	JKC
EPA 200.8	Chromium	A	<0.400U	ug/L	5	0.400	15.0	BHE3260	05/20/2024 15:24	JKC
EPA 200.8	Copper	A	<1.00B, B2, U	ug/L	5	1.00	5.00	BHE3260	05/20/2024 15:24	JKC
EPA 200.8	Lead	A	<0.500U	ug/L	5	0.500	2.50	BHE3260	05/20/2024 15:24	JKC
EPA 200.8	Nickel	A	2.09V2, J	ug/L	5	0.250	5.00	BHE3260	05/20/2024 15:24	JKC
EPA 200.8	Silver	A	<0.150U	ug/L	5	0.150	2.50	BHE3260	05/20/2024 15:24	JKC
EPA 200.8	Zinc	A	<1.00B2, U	ug/L	5	1.00	10.0	BHE3260	05/21/2024 09:25	JKC

Elutriate Metals, Total

EPA 245.1	Mercury	A	<0.150B2, U	ug/L	1	0.150	0.200	BHE0280	05/07/2024 14:19	ISS
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Anchor QEA, LLC
1201 3rd Avenue, Suite 2600
Seattle, WA 98101

Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
06/10/2024 14:47

Sample Results
(Continued)

Client Sample ID: CPC-09-SET-4-25-24
Lab Sample ID: 24D3569-05RE1
Sample Alias:

Sample Matrix: Elutriate
Date Collected: 04/25/2024 11:55
Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
Elutriate Organics by GC										
SW-8081	4,4'-DDD (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	4,4'-DDE (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	4,4'-DDT (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	Aldrin (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane) (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	beta-BHC (beta-Hexachlorocyclohexane) (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	Chlordane (Total) (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	cis-Chlordane (alpha-Chlordane) (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	delta-BHC (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	Dieldrin (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	Endosulfan I (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	Endosulfan II (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	Endosulfan sulfate (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	Endrin (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	Endrin aldehyde (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	Endrin ketone (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane) (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	gamma-Chlordane (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	Heptachlor (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	Heptachlor epoxide (Rerun)	A	<0.00600U	ug/L	1	0.00600	0.00600	BHE0407	05/21/2024 01:47	KRB
SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		66.0%	60-140					05/21/2024 01:47	
SW-8081	Surrogate: Decachlorobiphenyl-surr (Rerun)		52.9% S	60-140					05/21/2024 01:47	

Elutriate General Chemistry

EPA 350.1	Ammonia as N (Rerun)	A	0.835	mg/L	5	0.100	0.250	BHE1995	05/14/2024 13:05	NAZ
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Anchor QEA, LLC
1201 3rd Avenue, Suite 2600
Seattle, WA 98101

Project: Galveston Bay 2023
Project Number:
Project Manager: Sara Flaherty

Reported:
06/10/2024 14:47

Sample Results
(Continued)

Client Sample ID: CPC-08-SC-4-25-24
Lab Sample ID: 24D3569-06
Sample Alias:

Sample Matrix: Sediment
Date Collected: 04/25/2024 13:35
Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<2.18U	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<2.18U	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<2.18U	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<2.18U	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	2,4-Dichlorophenol	A	<4.36U	ug/kg dry	1	4.36	8.73	BHE0094	05/11/2024 08:53	KRB
SW-8270	2,4-Dimethylphenol	A	<4.36U	ug/kg dry	1	4.36	8.73	BHE0094	05/11/2024 08:53	KRB
SW-8270	Acenaphthene	A	<2.18U	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	Acenaphthylene	A	<2.18U	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	Anthracene	A	<2.18U	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	Benzo(a)anthracene	A	2.37J	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	Benzo(a)pyrene	A	3.29J	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	benzo(b&k)fluoranthene	A	7.98	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	Benzo(g,h,i)perylene	A	4.68	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	Chrysene	A	3.85J	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	Diethyl phthalate	A	3.02V, J	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	Fluoranthene	A	2.40J	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	Fluorene	A	<2.18U	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	Hexachlorobenzene	A	<2.18U	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	2.87J	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	Naphthalene	A	<2.18U	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	Pentachlorophenol	A	<4.36U	ug/kg dry	1	4.36	8.73	BHE0094	05/11/2024 08:53	KRB
SW-8270	Phenanthrene	A	<2.18U	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB
SW-8270	Phenol, Total	A	9.50V	ug/kg dry	1	4.36	8.73	BHE0094	05/11/2024 08:53	KRB
SW-8270	Pyrene	A	6.13	ug/kg dry	1	2.18	4.36	BHE0094	05/11/2024 08:53	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		85.7%	60-140					05/11/2024 08:53	
SW-8270	Surrogate: 2-Fluorophenol-surr		106%	60-140					05/11/2024 08:53	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		68.5%	60-140					05/11/2024 08:53	
SW-8270	Surrogate: Nitrobenzene-d5-surr		94.6%	60-140					05/11/2024 08:53	
SW-8270	Surrogate: Phenol-d5-surr		92.2%	60-140					05/11/2024 08:53	
SW-8270	Surrogate: p-Terphenyl-d14-surr		68.6%	60-140					05/11/2024 08:53	

Organics by GC

SW-8082	Aroclor-1016 (PCB-1016)	A	<0.0329U	ug/kg dry	1	0.0329	2.00	BHE0155	05/16/2024 03:48	cdg
SW-8082	Aroclor-1221 (PCB-1221)	A	<0.983U	ug/kg dry	1	0.983	2.00	BHE0155	05/16/2024 03:48	cdg
SW-8082	Aroclor-1232 (PCB-1232)	A	<0.983U	ug/kg dry	1	0.983	2.00	BHE0155	05/16/2024 03:48	cdg
SW-8082	Aroclor-1242 (PCB-1242)	A	<0.983U	ug/kg dry	1	0.983	2.00	BHE0155	05/16/2024 03:48	cdg
SW-8082	Aroclor-1248 (PCB-1248)	A	<0.983U	ug/kg dry	1	0.983	2.00	BHE0155	05/16/2024 03:48	cdg
SW-8082	Aroclor-1254 (PCB-1254)	A	<0.983U	ug/kg dry	1	0.983	2.00	BHE0155	05/16/2024 03:48	cdg



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Sample Results
(Continued)

Client Sample ID: CPC-08-SC-4-25-24 (Continued) Sample Matrix: Sediment
 Lab Sample ID: 24D3569-06 Date Collected: 04/25/2024 13:35
 Sample Alias: Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8082	Aroclor-1260 (PCB-1260)	A	<0.0355U	ug/kg dry	1	0.0355	2.00	BHE0155	05/16/2024 03:48	cdg
SW-8082	Aroclor-1262 (PCB-1262)	N	<0.983U	ug/kg dry	1	0.983	2.00	BHE0155	05/16/2024 03:48	cdg
SW-8082	Aroclor-1268 (PCB-1268)	N	<0.983U	ug/kg dry	1	0.983	2.00	BHE0155	05/16/2024 03:48	cdg
<i>SW-8082</i>	<i>Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr</i>		<i>85.7%</i>	<i>60-140</i>					<i>05/16/2024 03:48</i>	
<i>SW-8082</i>	<i>Surrogate: Decachlorobiphenyl-surr</i>		<i>37.6% S</i>	<i>60-140</i>					<i>05/16/2024 03:48</i>	

Metals, Total

EPA 200.8	Antimony	A	<0.0407U	mg/kg dry	1	0.0407	0.0816	BHE1933	05/16/2024 16:55	TBB
EPA 200.8	Arsenic	A	3.77	mg/kg dry	1	0.00407	0.0407	BHE1933	05/16/2024 16:55	TBB
EPA 200.8	Cadmium	A	0.0786J	mg/kg dry	1	0.00407	0.0816	BHE1933	05/16/2024 16:55	TBB
EPA 200.8	Chromium	A	7.20	mg/kg dry	1	0.0122	0.244	BHE1933	05/16/2024 16:55	TBB
EPA 200.8	Copper	A	6.20V	mg/kg dry	1	0.0163	0.0816	BHE1933	05/16/2024 16:55	TBB
SW-7471B	Mercury	A	0.0326	mg/kg dry	1	0.00993	0.0199	BHD5082	05/01/2024 16:18	ISS
EPA 200.8	Lead	A	13.0	mg/kg dry	5	0.0204	0.204	BHE1933	05/16/2024 17:48	TBB
EPA 200.8	Nickel	A	7.64	mg/kg dry	1	0.0816	0.0816	BHE1933	05/16/2024 16:55	TBB
EPA 200.8	Silver	A	0.0325J	mg/kg dry	1	0.00204	0.0407	BHE1933	05/16/2024 16:55	TBB
EPA 200.8	Zinc	A	26.1	mg/kg dry	1	0.0816	0.163	BHE1933	05/17/2024 15:06	TBB

General Chemistry

EPA 350.2	Ammonia as N	A	60.5	mg/kg dry	1	8.79	17.6	BHE1926	05/13/2024 10:15	GIW
SM 2540 G	% Solids	A	56.8	%	1	0.100	0.100	BHD4550	04/30/2024 10:17	ENR

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Sample Results (Continued)

Client Sample ID: CPC-08-SC-4-25-24
Lab Sample ID: 24D3569-06RE1
Sample Alias:

Sample Matrix: Sediment
Date Collected: 04/25/2024 13:35
Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	2,4-Dinitrophenol (Rerun)	A	<4.36U	ug/kg dry	1	4.36	8.73	BHE0094	05/16/2024 15:05	KRB
SW-8270	Dibenzo(a,h)anthracene (Rerun)	A	<2.18U	ug/kg dry	1	2.18	4.36	BHE0094	05/16/2024 15:05	KRB
SW-8270	Surrogate: 2-Fluorobiphenyl-surr (Rerun)		64.4%	60-140					05/16/2024 15:05	
SW-8270	Surrogate: 2-Fluorophenol-surr (Rerun)		76.3%	60-140					05/16/2024 15:05	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr (Rerun)		65.6%	60-140					05/16/2024 15:05	
SW-8270	Surrogate: Nitrobenzene-d5-surr (Rerun)		56.6% S	60-140					05/16/2024 15:05	
SW-8270	Surrogate: Phenol-d5-surr (Rerun)		66.7%	60-140					05/16/2024 15:05	
SW-8270	Surrogate: p-Terphenyl-d14-surr (Rerun)		50.9% S	60-140					05/16/2024 15:05	

Organics by GC

SW-8081	4,4'-DDD (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	4,4'-DDE (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	4,4'-DDT (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	Aldrin (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane) (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	beta-BHC (beta-Hexachlorocyclohexane) (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	Chlordane (Total) (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	cis-Chlordane (alpha-Chlordane) (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	delta-BHC (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	Dieldrin (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	Endosulfan I (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	Endosulfan II (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	Endosulfan sulfate (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	Endrin (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	Endrin aldehyde (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	Endrin ketone (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane) (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	gamma-Chlordane (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	Heptachlor (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	Heptachlor epoxide (Rerun)	A	<0.517U	ug/kg dry	10	0.517	1.72	BHE0925	05/17/2024 11:36	KRB
SW-8081	Toxaphene (Chlorinated Camphene) (Rerun)	A	<25.8U	ug/kg dry	10	25.8	25.8	BHE0925	05/17/2024 11:36	KRB
SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		87.7%	60-140					05/17/2024 11:36	



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Sample Results
(Continued)

Client Sample ID: CPC-08-SC-4-25-24 (Continued) Sample Matrix: Sediment
 Lab Sample ID: 24D3569-06RE1 Date Collected: 04/25/2024 13:35
 Sample Alias: Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8081	Surrogate: Decachlorobiphenyl-surr (Rerun)		118%	60-140					05/17/2024 11:36	
SW-8082	PCBs, Total (Rerun)	A	<0.0301U	ug/kg dry	1	0.0301	2.00	BHE3058	05/21/2024 03:31	CDG
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		91.1%	60-140					05/21/2024 03:31	
SW-8082	Surrogate: Decachlorobiphenyl-surr (Rerun)		39.1% S	60-140					05/21/2024 03:31	

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Project Manager: Sara Flaherty

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Sample Results
(Continued)

Client Sample ID: CPC-09-SC-4-25-24
Lab Sample ID: 24D3569-07
Sample Alias:

Sample Matrix: Sediment
Date Collected: 04/25/2024 11:55
Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	1,2,4-Trichlorobenzene	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	2,4-Dichlorophenol	A	<4.01U	ug/kg dry	1	4.01	8.02	BHE0094	05/11/2024 08:17	KRB
SW-8270	2,4-Dimethylphenol	A	<4.01U	ug/kg dry	1	4.01	8.02	BHE0094	05/11/2024 08:17	KRB
SW-8270	Acenaphthene	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	Acenaphthylene	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	Anthracene	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	Benzo(a)anthracene	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	Benzo(a)pyrene	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	benzo(b&k)fluoranthene	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	Benzo(g,h,i)perylene	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	Chrysene	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	Diethyl phthalate	A	2.88V, J	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	Fluoranthene	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	Fluorene	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	Hexachlorobenzene	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	Indeno(1,2,3-cd) pyrene	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	Naphthalene	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	Pentachlorophenol	A	<4.01U	ug/kg dry	1	4.01	8.02	BHE0094	05/11/2024 08:17	KRB
SW-8270	Phenanthrene	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB
SW-8270	Phenol, Total	A	7.32V, J	ug/kg dry	1	4.01	8.02	BHE0094	05/11/2024 08:17	KRB
SW-8270	Pyrene	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/11/2024 08:17	KRB

SW-8270	Surrogate: 2-Fluorobiphenyl-surr		70.4%	60-140					05/11/2024 08:17	
SW-8270	Surrogate: 2-Fluorophenol-surr		104%	60-140					05/11/2024 08:17	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr		64.8%	60-140					05/11/2024 08:17	
SW-8270	Surrogate: Nitrobenzene-d5-surr		88.7%	60-140					05/11/2024 08:17	
SW-8270	Surrogate: Phenol-d5-surr		88.3%	60-140					05/11/2024 08:17	
SW-8270	Surrogate: p-Terphenyl-d14-surr		92.6%	60-140					05/11/2024 08:17	

Organics by GC

SW-8082	Aroclor-1016 (PCB-1016)	A	<0.0304U	ug/kg dry	1	0.0304	2.00	BHE0155	05/16/2024 04:13	cdg
SW-8082	Aroclor-1221 (PCB-1221)	A	<0.907U	ug/kg dry	1	0.907	2.00	BHE0155	05/16/2024 04:13	cdg
SW-8082	Aroclor-1232 (PCB-1232)	A	<0.907U	ug/kg dry	1	0.907	2.00	BHE0155	05/16/2024 04:13	cdg
SW-8082	Aroclor-1242 (PCB-1242)	A	<0.907U	ug/kg dry	1	0.907	2.00	BHE0155	05/16/2024 04:13	cdg
SW-8082	Aroclor-1248 (PCB-1248)	A	<0.907U	ug/kg dry	1	0.907	2.00	BHE0155	05/16/2024 04:13	cdg
SW-8082	Aroclor-1254 (PCB-1254)	A	<0.907U	ug/kg dry	1	0.907	2.00	BHE0155	05/16/2024 04:13	cdg



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Sample Results
(Continued)

Client Sample ID: CPC-09-SC-4-25-24 (Continued) Sample Matrix: Sediment
 Lab Sample ID: 24D3569-07 Date Collected: 04/25/2024 11:55
 Sample Alias: Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8082	Aroclor-1260 (PCB-1260)	A	<0.0328U	ug/kg dry	1	0.0328	2.00	BHE0155	05/16/2024 04:13	cdg
SW-8082	Aroclor-1262 (PCB-1262)	N	<0.907U	ug/kg dry	1	0.907	2.00	BHE0155	05/16/2024 04:13	cdg
SW-8082	Aroclor-1268 (PCB-1268)	N	<0.907U	ug/kg dry	1	0.907	2.00	BHE0155	05/16/2024 04:13	cdg
<i>SW-8082</i>	<i>Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr</i>		<i>62.7%</i>	<i>60-140</i>					<i>05/16/2024 04:13</i>	
<i>SW-8082</i>	<i>Surrogate: Decachlorobiphenyl-surr</i>		<i>39.6% S</i>	<i>60-140</i>					<i>05/16/2024 04:13</i>	

Metals, Total

EPA 200.8	Antimony	A	<0.0386U	mg/kg dry	1	0.0386	0.0774	BHE1933	05/16/2024 17:05	TBB
EPA 200.8	Arsenic	A	3.90	mg/kg dry	1	0.00386	0.0386	BHE1933	05/16/2024 17:05	TBB
EPA 200.8	Cadmium	A	0.0842	mg/kg dry	1	0.00386	0.0774	BHE1933	05/16/2024 17:05	TBB
EPA 200.8	Chromium	A	7.22	mg/kg dry	1	0.0116	0.232	BHE1933	05/16/2024 17:05	TBB
EPA 200.8	Copper	A	6.00V	mg/kg dry	1	0.0154	0.0774	BHE1933	05/16/2024 17:05	TBB
SW-7471B	Mercury	A	0.0328	mg/kg dry	1	0.00966	0.0193	BHD5082	05/01/2024 16:22	ISS
EPA 200.8	Lead	A	10.6	mg/kg dry	5	0.0193	0.193	BHE1933	05/16/2024 17:50	TBB
EPA 200.8	Nickel	A	7.62	mg/kg dry	1	0.0774	0.0774	BHE1933	05/16/2024 17:05	TBB
EPA 200.8	Silver	A	0.0350J	mg/kg dry	1	0.00193	0.0386	BHE1933	05/16/2024 17:05	TBB
EPA 200.8	Zinc	A	26.5	mg/kg dry	1	0.0774	0.154	BHE1933	05/17/2024 15:17	TBB

General Chemistry

EPA 350.2	Ammonia as N	A	16.2	mg/kg dry	1	8.03	16.1	BHE1926	05/13/2024 10:15	GIW
SM 2540 G	% Solids	A	62.2	%	1	0.100	0.100	BHD4550	04/30/2024 10:17	ENR

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Project Number:
Project Manager: Sara Flaherty

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Sample Results
(Continued)

Client Sample ID: CPC-09-SC-4-25-24
Lab Sample ID: 24D3569-07RE1
Sample Alias:

Sample Matrix: Sediment
Date Collected: 04/25/2024 11:55
Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Semivolatile Organic Compounds by GCMS

SW-8270	2,4-Dinitrophenol (Rerun)	A	<4.01U	ug/kg dry	1	4.01	8.02	BHE0094	05/16/2024 14:28	KRB
SW-8270	Dibenzo(a,h)anthracene (Rerun)	A	<2.00U	ug/kg dry	1	2.00	4.01	BHE0094	05/16/2024 14:28	KRB
SW-8270	Surrogate: 2-Fluorobiphenyl-surr (Rerun)		50.0% S	60-140					05/16/2024 14:28	
SW-8270	Surrogate: 2-Fluorophenol-surr (Rerun)		68.6%	60-140					05/16/2024 14:28	
SW-8270	Surrogate: 2,4,6-Tribromophenol-surr (Rerun)		58.1% S	60-140					05/16/2024 14:28	
SW-8270	Surrogate: Nitrobenzene-d5-surr (Rerun)		66.1%	60-140					05/16/2024 14:28	
SW-8270	Surrogate: Phenol-d5-surr (Rerun)		61.3%	60-140					05/16/2024 14:28	
SW-8270	Surrogate: p-Terphenyl-d14-surr (Rerun)		44.8% S	60-140					05/16/2024 14:28	

Organics by GC

SW-8081	4,4'-DDD (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	4,4'-DDE (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	4,4'-DDT (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	Aldrin (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	alpha-BHC (alpha-Hexachlorocyclohexane) (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	beta-BHC (beta-Hexachlorocyclohexane) (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	Chlordane (Total) (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	cis-Chlordane (alpha-Chlordane) (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	delta-BHC (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	Dieldrin (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	Endosulfan I (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	Endosulfan II (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	Endosulfan sulfate (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	Endrin (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	Endrin aldehyde (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	Endrin ketone (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane) (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	gamma-Chlordane (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	Heptachlor (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	Heptachlor epoxide (Rerun)	A	<0.460U	ug/kg dry	10	0.460	1.53	BHE0925	05/17/2024 12:01	KRB
SW-8081	Toxaphene (Chlorinated Camphene) (Rerun)	A	<23.0U	ug/kg dry	10	23.0	23.0	BHE0925	05/17/2024 12:01	KRB
SW-8081	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		82.9%	60-140					05/17/2024 12:01	



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Sample Results
(Continued)

Client Sample ID: CPC-09-SC-4-25-24 (Continued)
 Lab Sample ID: 24D3569-07RE1
 Sample Alias:

Sample Matrix: Sediment
 Date Collected: 04/25/2024 11:55
 Collected by: Josh Sparks

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
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Organics by GC (Continued)

SW-8081	Surrogate: Decachlorobiphenyl-surr (Rerun)		120%	60-140					05/17/2024 12:01	
SW-8082	PCBs, Total (Rerun)	A	<0.0275U	ug/kg dry	1	0.0275	2.00	BHE3058	05/21/2024 03:06	CDG
SW-8082	Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr		69.1%	60-140					05/21/2024 03:06	
SW-8082	Surrogate: Decachlorobiphenyl-surr (Rerun)		42.8% S	60-140					05/21/2024 03:06	

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Quality Control

Semivolatile Organic Compounds by GCMS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0094 - SW-3570

MB SV (BHE0094-BLK1)

Prepared: 5/1/2024 Analyzed: 5/11/2024

1,2,4-Trichlorobenzene	<2.48	U	2.48	ug/kg wet						
1,2-Dichlorobenzene (o-Dichlorobenzene)	<2.48	U	2.48	ug/kg wet						
1,3-Dichlorobenzene (m-Dichlorobenzene)	<2.48	U	2.48	ug/kg wet						
1,4-Dichlorobenzene (p-Dichlorobenzene)	<2.48	U	2.48	ug/kg wet						
2,4-Dichlorophenol	<4.96	U	4.96	ug/kg wet						
2,4-Dimethylphenol	<4.96	U	4.96	ug/kg wet						
2,4-Dinitrophenol	<4.96	U	4.96	ug/kg wet						
Acenaphthene	<2.48	U	2.48	ug/kg wet						
Acenaphthylene	<2.48	U	2.48	ug/kg wet						
Anthracene	<2.48	U	2.48	ug/kg wet						
Benzo(a)anthracene	<2.48	U	2.48	ug/kg wet						
Benzo(a)pyrene	<2.48	U	2.48	ug/kg wet						
Benzo(g,h,i)perylene	<2.48	U	2.48	ug/kg wet						
Chrysene	<2.48	U	2.48	ug/kg wet						
Dibenzo(a,h)anthracene	<2.48	U	2.48	ug/kg wet						
Diethyl phthalate	2.36	J	2.48	ug/kg wet						
Fluoranthene	<2.48	U	2.48	ug/kg wet						
Fluorene	<2.48	U	2.48	ug/kg wet						
Hexachlorobenzene	<2.48	U	2.48	ug/kg wet						
Indeno(1,2,3-cd) pyrene	<2.48	U	2.48	ug/kg wet						
Naphthalene	<2.48	U	2.48	ug/kg wet						
Pentachlorophenol	<4.96	U	4.96	ug/kg wet						
Phenanthrene	<2.48	U	2.48	ug/kg wet						
Phenol, Total	4.08	J	4.96	ug/kg wet						
Pyrene	<2.48	U	2.48	ug/kg wet						
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Surrogate: 2-Fluorobiphenyl-surr			15.4	ug/kg wet	19.8		77.8	60-140		
Surrogate: 2-Fluorophenol-surr			37.4	ug/kg wet	39.6		94.3	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			33.4	ug/kg wet	39.6		84.3	60-140		
Surrogate: Nitrobenzene-d5-surr			18.5	ug/kg wet	19.8		93.2	60-140		
Surrogate: Phenol-d5-surr			47.9	ug/kg wet	39.6		121	60-140		
Surrogate: p-Terphenyl-d14-surr			18.4	ug/kg wet	19.8		92.7	60-140		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0094 - SW-3570 (Continued)										
BS SV (BHE0094-BS1)										
					Prepared: 5/1/2024 Analyzed: 5/11/2024					
1,2,4-Trichlorobenzene	13.5		2.33	ug/kg wet	18.7		72.4	60-140		
1,2-Dichlorobenzene (o-Dichlorobenzene)	11.7		2.33	ug/kg wet	18.7		62.8	60-140		
1,3-Dichlorobenzene (m-Dichlorobenzene)	10.9	J1	2.33	ug/kg wet	18.7		58.6	60-140		
1,4-Dichlorobenzene (p-Dichlorobenzene)	12.7		2.33	ug/kg wet	18.7		68.0	60-140		
2,4-Dichlorophenol	37.3		4.66	ug/kg wet	37.3		100	60-140		
2,4-Dimethylphenol	31.1		4.66	ug/kg wet	37.3		83.3	60-140		
2,4-Dinitrophenol	31.2		4.66	ug/kg wet	93.3		33.5	10-50.4		
Acenaphthene	16.2		2.33	ug/kg wet	18.7		86.6	60-140		
Acenaphthylene	16.1		2.33	ug/kg wet	18.7		86.2	60-140		
Anthracene	18.0		2.33	ug/kg wet	18.7		96.3	60-140		
Benzo(a)anthracene	19.2		2.33	ug/kg wet	18.7		103	60-140		
Benzo(a)pyrene	17.8		2.33	ug/kg wet	18.7		95.4	60-140		
Benzo(g,h,i)perylene	17.4		2.33	ug/kg wet	18.7		93.4	60-140		
Chrysene	17.8		2.33	ug/kg wet	18.7		95.2	60-140		
Dibenzo(a,h)anthracene	14.3		2.33	ug/kg wet	18.7		76.5	60-140		
Diethyl phthalate	18.8		2.33	ug/kg wet	18.7		101	60-140		
Fluoranthene	14.1		2.33	ug/kg wet	18.7		75.8	60-140		
Fluorene	19.1		2.33	ug/kg wet	18.7		102	60-140		
Hexachlorobenzene	14.6		2.33	ug/kg wet	18.7		78.5	60-140		
Indeno(1,2,3-cd) pyrene	18.4		2.33	ug/kg wet	18.7		98.9	60-140		
Naphthalene	15.3		2.33	ug/kg wet	18.7		82.3	60-140		
Pentachlorophenol	32.4		4.66	ug/kg wet	37.3		86.9	60-140		
Phenanthrene	16.7		2.33	ug/kg wet	18.7		89.6	60-140		
Phenol, Total	30.7		4.66	ug/kg wet	37.3		82.4	60-140		
Pyrene	20.0		2.33	ug/kg wet	18.7		107	60-140		
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Surrogate: 2-Fluorobiphenyl-surr			12.9	ug/kg wet	18.7		69.3	60-140		
Surrogate: 2-Fluorophenol-surr			35.0	ug/kg wet	37.3		93.7	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			29.3	ug/kg wet	37.3		78.4	60-140		
Surrogate: Nitrobenzene-d5-surr			18.0	ug/kg wet	18.7		96.4	60-140		
Surrogate: Phenol-d5-surr			29.9	ug/kg wet	37.3		80.2	60-140		
Surrogate: p-Terphenyl-d14-surr			19.0	ug/kg wet	18.7		102	60-140		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0094 - SW-3570 (Continued)										
BSD SV (BHE0094-BSD1)										
					Prepared: 5/1/2024 Analyzed: 5/11/2024					
1,2,4-Trichlorobenzene	13.7		2.46	ug/kg wet	19.6		69.6	60-140	1.29	40
1,2-Dichlorobenzene (o-Dichlorobenzene)	13.0		2.46	ug/kg wet	19.6		66.1	60-140	10.4	40
1,3-Dichlorobenzene (m-Dichlorobenzene)	10.6	J1	2.46	ug/kg wet	19.6		54.1	60-140	2.68	40
1,4-Dichlorobenzene (p-Dichlorobenzene)	13.4		2.46	ug/kg wet	19.6		68.4	60-140	5.79	40
2,4-Dichlorophenol	43.1		4.91	ug/kg wet	39.3		110	60-140	14.5	40
2,4-Dimethylphenol	38.9		4.91	ug/kg wet	39.3		99.0	60-140	22.3	40
2,4-Dinitrophenol	55.2	J1	4.91	ug/kg wet	98.2		56.2	10-50.4	55.5	40
Acenaphthene	16.7		2.46	ug/kg wet	19.6		84.8	60-140	3.01	40
Acenaphthylene	16.2		2.46	ug/kg wet	19.6		82.5	60-140	0.688	40
Anthracene	18.0		2.46	ug/kg wet	19.6		91.6	60-140	0.203	40
Benzo(a)anthracene	17.8		2.46	ug/kg wet	19.6		90.5	60-140	7.57	40
Benzo(a)pyrene	18.6		2.46	ug/kg wet	19.6		94.7	60-140	4.42	40
Benzo(g,h,i)perylene	17.5		2.46	ug/kg wet	19.6		89.0	60-140	0.360	40
Chrysene	17.0		2.46	ug/kg wet	19.6		86.4	60-140	4.52	40
Dibenzo(a,h)anthracene	16.3		2.46	ug/kg wet	19.6		82.9	60-140	13.3	40
Diethyl phthalate	17.7		2.46	ug/kg wet	19.6		89.8	60-140	6.25	40
Fluoranthene	15.1		2.46	ug/kg wet	19.6		76.9	60-140	6.58	40
Fluorene	19.2		2.46	ug/kg wet	19.6		97.8	60-140	0.478	40
Hexachlorobenzene	16.3		2.46	ug/kg wet	19.6		82.9	60-140	10.7	40
Indeno(1,2,3-cd) pyrene	18.2		2.46	ug/kg wet	19.6		92.8	60-140	1.15	40
Naphthalene	15.6		2.46	ug/kg wet	19.6		79.5	60-140	1.80	40
Pentachlorophenol	36.8		4.91	ug/kg wet	39.3		93.7	60-140	12.7	40
Phenanthrene	17.3		2.46	ug/kg wet	19.6		87.9	60-140	3.16	40
Phenol, Total	40.2		4.91	ug/kg wet	39.3		102	60-140	26.8	40
Pyrene	18.3		2.46	ug/kg wet	19.6		93.1	60-140	8.73	40
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Surrogate: 2-Fluorobiphenyl-surr			14.6	ug/kg wet	19.6		74.1	60-140		
Surrogate: 2-Fluorophenol-surr			36.8	ug/kg wet	39.3		93.6	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			33.6	ug/kg wet	39.3		85.6	60-140		
Surrogate: Nitrobenzene-d5-surr			19.4	ug/kg wet	19.6		98.7	60-140		
Surrogate: Phenol-d5-surr			38.8	ug/kg wet	39.3		98.7	60-140		
Surrogate: p-Terphenyl-d14-surr			16.7	ug/kg wet	19.6		85.1	60-140		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0094 - SW-3570 (Continued)										
MDL SV (BHE0094-MRL1)										
					Prepared: 5/1/2024 Analyzed: 5/11/2024					
1,2,4-Trichlorobenzene	1.58	J	2.45	ug/kg wet	1.96		80.8			
1,2-Dichlorobenzene (o-Dichlorobenzene)	1.24	J	2.45	ug/kg wet	1.96		63.2			
1,3-Dichlorobenzene (m-Dichlorobenzene)	<2.45	U	2.45	ug/kg wet	1.96					
1,4-Dichlorobenzene (p-Dichlorobenzene)	<2.45	U	2.45	ug/kg wet	1.96					
2,4-Dichlorophenol	5.09		4.90	ug/kg wet	3.92		130			
2,4-Dimethylphenol	3.75	J	4.90	ug/kg wet	3.92		95.6			
2,4-Dinitrophenol	11.8		4.90	ug/kg wet	9.79		121	50-150		
Acenaphthene	1.65	J	2.45	ug/kg wet	1.96		84.5			
Acenaphthylene	1.68	J	2.45	ug/kg wet	1.96		85.8			
Anthracene	1.75	J	2.45	ug/kg wet	1.96		89.2			
Benzo(a)anthracene	1.78	J	2.45	ug/kg wet	1.96		90.8			
Benzo(a)pyrene	1.76	J	2.45	ug/kg wet	1.96		90.0			
Benzo(g,h,i)perylene	1.73	J	2.45	ug/kg wet	1.96		88.2			
Chrysene	1.64	J	2.45	ug/kg wet	1.96		84.0			
Dibenzo(a,h)anthracene	1.34	J	2.45	ug/kg wet	1.96		68.2			
Diethyl phthalate	3.23		2.45	ug/kg wet	1.96		165			
Fluoranthene	1.29	J	2.45	ug/kg wet	1.96		65.7			
Fluorene	1.81	J	2.45	ug/kg wet	1.96		92.6			
Hexachlorobenzene	1.63	J	2.45	ug/kg wet	1.96		83.3			
Indeno(1,2,3-cd) pyrene	1.65	J	2.45	ug/kg wet	1.96		84.4			
Naphthalene	1.56	J	2.45	ug/kg wet	1.96		79.5			
Pentachlorophenol	3.32	J	4.90	ug/kg wet	3.92		84.6			
Phenanthrene	1.85	J	2.45	ug/kg wet	1.96		94.6			
Phenol, Total	6.24		4.90	ug/kg wet	3.92		159			
Pyrene	1.92	J	2.45	ug/kg wet	1.96		98.1			
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Surrogate: 2-Fluorobiphenyl-surr			13.8	ug/kg wet	19.6		70.4	60-140		
Surrogate: 2-Fluorophenol-surr			38.8	ug/kg wet	39.2		98.9	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			29.2	ug/kg wet	39.2		74.4	60-140		
Surrogate: Nitrobenzene-d5-surr			18.1	ug/kg wet	19.6		92.6	60-140		
Surrogate: Phenol-d5-surr			36.1	ug/kg wet	39.2		92.1	60-140		
Surrogate: p-Terphenyl-d14-surr			17.0	ug/kg wet	19.6		86.9	60-140		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0094 - SW-3570 (Continued)										
24D3569-07 MS (BHE0094-MS1)			Source: 24D3569-07			Prepared: 5/1/2024 Analyzed: 5/11/2024				
1,2,4-Trichlorobenzene	20.1		3.89	ug/kg dry	31.1	<3.89	64.5	60-140		
1,2-Dichlorobenzene (o-Dichlorobenzene)	18.7		3.89	ug/kg dry	31.1	<3.89	60.2	60-140		
1,3-Dichlorobenzene (m-Dichlorobenzene)	17.6	J1	3.89	ug/kg dry	31.1	<3.89	56.5	60-140		
1,4-Dichlorobenzene (p-Dichlorobenzene)	19.1		3.89	ug/kg dry	31.1	<3.89	61.3	60-140		
2,4-Dichlorophenol	68.2		7.79	ug/kg dry	62.3	<7.79	109	60-140		
2,4-Dimethylphenol	59.8		7.79	ug/kg dry	62.3	<7.79	95.9	60-140		
2,4-Dinitrophenol	20.7		7.79	ug/kg dry	156	<7.79	13.3	10-51.3		
Acenaphthene	24.2		3.89	ug/kg dry	31.1	<3.89	77.6	60-140		
Acenaphthylene	25.4		3.89	ug/kg dry	31.1	<3.89	81.4	60-140		
Anthracene	25.1		3.89	ug/kg dry	31.1	<3.89	80.6	60-140		
Benzo(a)anthracene	21.7		3.89	ug/kg dry	31.1	<3.89	69.7	60-140		
Benzo(a)pyrene	24.6		3.89	ug/kg dry	31.1	<3.89	79.1	60-140		
Benzo(g,h,i)perylene	18.2	J1	3.89	ug/kg dry	31.1	<3.89	58.3	60-140		
Chrysene	24.6		3.89	ug/kg dry	31.1	<3.89	79.0	60-140		
Dibenzo(a,h)anthracene	15.2	J1	3.89	ug/kg dry	31.1	<3.89	48.8	60-140		
Diethyl phthalate	33.0		3.89	ug/kg dry	31.1	2.88	96.6	60-140		
Fluoranthene	19.6		3.89	ug/kg dry	31.1	<3.89	63.0	60-140		
Fluorene	28.3		3.89	ug/kg dry	31.1	<3.89	90.9	60-140		
Hexachlorobenzene	19.4		3.89	ug/kg dry	31.1	<3.89	62.2	60-140		
Indeno(1,2,3-cd) pyrene	18.5	J1	3.89	ug/kg dry	31.1	<3.89	59.4	60-140		
Naphthalene	24.7		3.89	ug/kg dry	31.1	<3.89	79.3	60-140		
Pentachlorophenol	46.4		7.79	ug/kg dry	62.3	<7.79	74.5	60-140		
Phenanthrene	23.5		3.89	ug/kg dry	31.1	<3.89	75.4	60-140		
Phenol, Total	61.0		7.79	ug/kg dry	62.3	7.32	86.2	60-140		
Pyrene	25.9		3.89	ug/kg dry	31.1	<3.89	83.0	60-140		
<hr/>										
Surrogate: 2-Fluorobiphenyl-surr			23.0	ug/kg dry	31.1		73.7	60-140		
Surrogate: 2-Fluorophenol-surr			52.2	ug/kg dry	62.3		83.8	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			42.3	ug/kg dry	62.3		67.9	60-140		
Surrogate: Nitrobenzene-d5-surr			26.0	ug/kg dry	31.1		83.5	60-140		
Surrogate: Phenol-d5-surr			54.8	ug/kg dry	62.3		88.0	60-140		
Surrogate: p-Terphenyl-d14-surr			23.7	ug/kg dry	31.1		76.0	60-140		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0094 - SW-3570 (Continued)										
Matrix Spike (BHE0094-MS2)			Source: 24D3569-07RE1			Prepared: 5/1/2024 Analyzed: 5/16/2024				
2,4-Dinitrophenol	16.7		7.79	ug/kg dry	156	<7.79	10.7	10-51.3		
Dibenzo(a,h)anthracene	19.1		3.89	ug/kg dry	31.1	<3.89	61.3	60-140		

Surrogate: 2-Fluorobiphenyl-surr		S	17.1	ug/kg dry	31.1		54.9	60-140		
Surrogate: 2-Fluorophenol-surr			43.7	ug/kg dry	62.3		70.2	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			39.1	ug/kg dry	62.3		62.8	60-140		
Surrogate: Nitrobenzene-d5-surr			19.2	ug/kg dry	31.1		61.5	60-140		
Surrogate: Phenol-d5-surr			47.8	ug/kg dry	62.3		76.7	60-140		
Surrogate: p-Terphenyl-d14-surr		S	17.8	ug/kg dry	31.1		57.1	60-140		

24D3569-07 MSD (BHE0094-MSD1)

Source: 24D3569-07

Prepared: 5/1/2024 Analyzed: 5/11/2024

1,2,4-Trichlorobenzene	19.7		3.81	ug/kg dry	30.5	<3.81	64.5	60-140	2.16	40
1,2-Dichlorobenzene (o-Dichlorobenzene)	17.8	J1	3.81	ug/kg dry	30.5	<3.81	58.6	60-140	4.91	40
1,3-Dichlorobenzene (m-Dichlorobenzene)	18.1	J1	3.81	ug/kg dry	30.5	<3.81	59.3	60-140	2.63	40
1,4-Dichlorobenzene (p-Dichlorobenzene)	17.6	J1	3.81	ug/kg dry	30.5	<3.81	57.8	60-140	7.99	40
2,4-Dichlorophenol	66.2		7.62	ug/kg dry	60.9	<7.62	109	60-140	2.90	40
2,4-Dimethylphenol	59.6		7.62	ug/kg dry	60.9	<7.62	97.8	60-140	0.256	40
2,4-Dinitrophenol	19.0		7.62	ug/kg dry	152	<7.62	12.5	10-51.3	8.35	40
Acenaphthene	22.0		3.81	ug/kg dry	30.5	<3.81	72.2	60-140	9.39	40
Acenaphthylene	21.7		3.81	ug/kg dry	30.5	<3.81	71.1	60-140	15.7	40
Anthracene	23.5		3.81	ug/kg dry	30.5	<3.81	77.2	60-140	6.52	40
Benzo(a)anthracene	19.7		3.81	ug/kg dry	30.5	<3.81	64.7	60-140	9.66	40
Benzo(a)pyrene	22.1		3.81	ug/kg dry	30.5	<3.81	72.5	60-140	10.9	40
Benzo(g,h,i)perylene	19.8		3.81	ug/kg dry	30.5	<3.81	64.9	60-140	8.55	40
Chrysene	22.6		3.81	ug/kg dry	30.5	<3.81	74.0	60-140	8.68	40
Dibenzo(a,h)anthracene	17.5	J1	3.81	ug/kg dry	30.5	<3.81	57.5	60-140	14.1	40
Diethyl phthalate	26.3		3.81	ug/kg dry	30.5	2.88	76.8	60-140	22.5	40
Fluoranthene	19.2		3.81	ug/kg dry	30.5	<3.81	62.9	60-140	2.26	40
Fluorene	25.4		3.81	ug/kg dry	30.5	<3.81	83.3	60-140	10.9	40
Hexachlorobenzene	19.3		3.81	ug/kg dry	30.5	<3.81	63.5	60-140	0.168	40
Indeno(1,2,3-cd) pyrene	20.0		3.81	ug/kg dry	30.5	<3.81	65.6	60-140	7.72	40
Naphthalene	22.7		3.81	ug/kg dry	30.5	<3.81	74.4	60-140	8.51	40
Pentachlorophenol	43.4		7.62	ug/kg dry	60.9	<7.62	71.2	60-140	6.83	40
Phenanthrene	22.0		3.81	ug/kg dry	30.5	<3.81	72.3	60-140	6.40	40
Phenol, Total	59.7		7.62	ug/kg dry	60.9	7.32	86.0	60-140	2.17	40
Pyrene	23.8		3.81	ug/kg dry	30.5	<3.81	78.3	60-140	8.08	40

Surrogate: 2-Fluorobiphenyl-surr			21.2	ug/kg dry	30.5		69.6	60-140		
Surrogate: 2-Fluorophenol-surr			52.6	ug/kg dry	60.9		86.4	60-140		
Surrogate: 2,4,6-Tribromophenol-surr			43.2	ug/kg dry	60.9		70.9	60-140		
Surrogate: Nitrobenzene-d5-surr			28.3	ug/kg dry	30.5		93.0	60-140		
Surrogate: Phenol-d5-surr			53.8	ug/kg dry	60.9		88.4	60-140		
Surrogate: p-Terphenyl-d14-surr			20.2	ug/kg dry	30.5		66.5	60-140		

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Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0094 - SW-3570 (Continued)										
Matrix Spike Dup (BHE0094-MSD2)			Source: 24D3569-07RE1		Prepared: 5/1/2024 Analyzed: 5/16/2024					
2,4-Dinitrophenol	15.4		7.62	ug/kg dry	152	<7.62	10.1	10-51.3	7.72	40
Dibenzo(a,h)anthracene	18.4		3.81	ug/kg dry	30.5	<3.81	60.3	60-140	3.77	40

Surrogate: 2-Fluorobiphenyl-surr		S	15.7	ug/kg dry	30.5		51.7	60-140		
Surrogate: 2-Fluorophenol-surr			41.0	ug/kg dry	60.9		67.3	60-140		
Surrogate: 2,4,6-Tribromophenol-surr		S	35.7	ug/kg dry	60.9		58.6	60-140		
Surrogate: Nitrobenzene-d5-surr			18.7	ug/kg dry	30.5		61.5	60-140		
Surrogate: Phenol-d5-surr			42.9	ug/kg dry	60.9		70.4	60-140		
Surrogate: p-Terphenyl-d14-surr		S	15.0	ug/kg dry	30.5		49.2	60-140		

Batch: BHE0409 - SW-3511

MB SV (BHE0409-BLK1)

Prepared: 5/2/2024 Analyzed: 5/13/2024

1,2,4-Trichlorobenzene	<0.562	U	0.562	ug/L						
1,2-Dichlorobenzene (o-Dichlorobenzene)	<0.562	U	0.562	ug/L						
1,3-Dichlorobenzene (m-Dichlorobenzene)	<0.562	U	0.562	ug/L						
1,4-Dichlorobenzene (p-Dichlorobenzene)	<0.562	U	0.562	ug/L						
2,4-Dichlorophenol	<0.562	U	0.562	ug/L						
2,4-Dimethylphenol	<1.12	U	1.12	ug/L						
2,4-Dinitrophenol	<4.50	U	4.50	ug/L						
Acenaphthene	<0.562	U	0.562	ug/L						
Acenaphthylene	<0.562	U	0.562	ug/L						
Anthracene	<0.562	U	0.562	ug/L						
Benzo(a)anthracene	<0.562	U	0.562	ug/L						
Benzo(a)pyrene	<0.562	U	0.562	ug/L						
Benzo(b)fluoranthene	<0.562	U	0.562	ug/L						
Benzo(g,h,i)perylene	<0.562	U	0.562	ug/L						
Benzo(k)fluoranthene	<0.562	U	0.562	ug/L						
Chrysene	<0.562	U	0.562	ug/L						
Dibenzo(a,h)anthracene	<0.562	U	0.562	ug/L						
Diethyl phthalate	0.462	J	0.562	ug/L						
Fluoranthene	<0.562	U	0.562	ug/L						
Fluorene	<0.562	U	0.562	ug/L						
Hexachlorobenzene	<0.562	U	0.562	ug/L						
Indeno(1,2,3-cd) pyrene	<0.562	U	0.562	ug/L						
Naphthalene	<0.562	U	0.562	ug/L						
Pentachlorophenol	<1.12	U	1.12	ug/L						
Phenanthrene	<0.562	U	0.562	ug/L						
Phenol, Total	0.655	J	1.12	ug/L						
Pyrene	<0.562	U	0.562	ug/L						

Surrogate: 2-Fluorobiphenyl-surr			9.31	ug/L	10.0		93.1	54.6-148		
Surrogate: 2-Fluorophenol-surr			20.9	ug/L	20.0		105	55-152		
Surrogate: 2,4,6-Tribromophenol-surr			22.0	ug/L	20.0		110	52.4-136		
Surrogate: Nitrobenzene-d5-surr			9.48	ug/L	10.0		94.8	52-162		

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Quality Control
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Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0409 - SW-3511 (Continued)

MB SV (BHE0409-BLK1)

Prepared: 5/2/2024 Analyzed: 5/13/2024

Surrogate: Phenol-d5-surr	20.2		ug/L	20.0			101	58.7-152		
Surrogate: p-Terphenyl-d14-surr	10.5		ug/L	10.0			105	51.9-147		

BS SV (BHE0409-BS1)

Prepared: 5/2/2024 Analyzed: 5/13/2024

1,2,4-Trichlorobenzene	9.75		ug/L	10.0			97.5	60-140		
1,2-Dichlorobenzene (o-Dichlorobenzene)	9.56		ug/L	10.0			95.6	60-140		
1,3-Dichlorobenzene (m-Dichlorobenzene)	9.23		ug/L	10.0			92.3	60-140		
1,4-Dichlorobenzene (p-Dichlorobenzene)	9.59		ug/L	10.0			95.9	60-140		
2,4-Dichlorophenol	23.3		ug/L	20.0			117	60-140		
2,4-Dimethylphenol	22.9		ug/L	20.0			115	35.9-153		
2,4-Dinitrophenol	61.6		ug/L	50.0			123	60-140		
Acenaphthene	11.0		ug/L	10.0			110	60-140		
Acenaphthylene	10.5		ug/L	10.0			105	60-140		
Anthracene	11.3		ug/L	10.0			113	60-140		
Benzo(a)anthracene	11.6		ug/L	10.0			116	60-140		
Benzo(a)pyrene	11.5		ug/L	10.0			115	60-140		
Benzo(b)fluoranthene	11.7		ug/L	10.0			117	60-140		
Benzo(g,h,i)perylene	11.3		ug/L	10.0			113	60-140		
Benzo(k)fluoranthene	11.3		ug/L	10.0			113	60-140		
Chrysene	12.0		ug/L	10.0			120	60-140		
Dibenzo(a,h)anthracene	12.7		ug/L	10.0			127	60-140		
Diethyl phthalate	12.6		ug/L	10.0			126	60-140		
Fluoranthene	11.5		ug/L	10.0			115	60-140		
Fluorene	11.7		ug/L	10.0			117	60-140		
Hexachlorobenzene	10.7		ug/L	10.0			107	60-140		
Indeno(1,2,3-cd) pyrene	12.1		ug/L	10.0			121	60-140		
Naphthalene	10.7		ug/L	10.0			107	60-140		
Pentachlorophenol	25.0		ug/L	20.0			125	36.8-149		
Phenanthrene	11.2		ug/L	10.0			112	60-140		
Phenol, Total	21.9		ug/L	20.0			110	60-140		
Pyrene	11.5		ug/L	10.0			115	60-140		
Surrogate: 2-Fluorobiphenyl-surr	10.3		ug/L	10.0			103	54.6-148		
Surrogate: 2-Fluorophenol-surr	22.6		ug/L	20.0			113	55-152		
Surrogate: 2,4,6-Tribromophenol-surr	23.0		ug/L	20.0			115	52.4-136		
Surrogate: Nitrobenzene-d5-surr	11.1		ug/L	10.0			111	52-162		
Surrogate: Phenol-d5-surr	23.4		ug/L	20.0			117	58.7-152		
Surrogate: p-Terphenyl-d14-surr	10.6		ug/L	10.0			106	51.9-147		

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Quality Control
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Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0409 - SW-3511 (Continued)										
BSD SV (BHE0409-BSD1)										
					Prepared: 5/2/2024 Analyzed: 5/13/2024					
1,2,4-Trichlorobenzene	9.76		0.562	ug/L	10.0		97.6	60-140	0.0960	40
1,2-Dichlorobenzene (o-Dichlorobenzene)	9.19		0.562	ug/L	10.0		91.9	60-140	3.96	40
1,3-Dichlorobenzene (m-Dichlorobenzene)	8.93		0.562	ug/L	10.0		89.3	60-140	3.35	40
1,4-Dichlorobenzene (p-Dichlorobenzene)	9.28		0.562	ug/L	10.0		92.8	60-140	3.24	40
2,4-Dichlorophenol	22.9		0.562	ug/L	20.0		114	60-140	2.06	40
2,4-Dimethylphenol	22.7		1.12	ug/L	20.0		114	35.9-153	0.783	40
2,4-Dinitrophenol	72.8	J1	4.50	ug/L	50.0		146	60-140	16.7	40
Acenaphthene	10.5		0.562	ug/L	10.0		105	60-140	4.74	40
Acenaphthylene	10.1		0.562	ug/L	10.0		101	60-140	4.50	40
Anthracene	10.8		0.562	ug/L	10.0		108	60-140	3.93	40
Benzo(a)anthracene	11.3		0.562	ug/L	10.0		113	60-140	2.77	40
Benzo(a)pyrene	11.3		0.562	ug/L	10.0		113	60-140	1.92	40
Benzo(b)fluoranthene	11.7		0.562	ug/L	10.0		117	60-140	0.381	40
Benzo(g,h,i)perylene	11.6		0.562	ug/L	10.0		116	60-140	1.90	40
Benzo(k)fluoranthene	11.3		0.562	ug/L	10.0		113	60-140	0.110	40
Chrysene	11.1		0.562	ug/L	10.0		111	60-140	7.64	40
Dibenzo(a,h)anthracene	13.1		0.562	ug/L	10.0		131	60-140	3.62	40
Diethyl phthalate	11.1		0.562	ug/L	10.0		111	60-140	12.8	40
Fluoranthene	11.2		0.562	ug/L	10.0		112	60-140	2.96	40
Fluorene	10.7		0.562	ug/L	10.0		107	60-140	8.63	40
Hexachlorobenzene	10.0		0.562	ug/L	10.0		100	60-140	6.79	40
Indeno(1,2,3-cd) pyrene	12.4		0.562	ug/L	10.0		124	60-140	2.39	40
Naphthalene	10.2		0.562	ug/L	10.0		102	60-140	5.11	40
Pentachlorophenol	24.6		1.12	ug/L	20.0		123	36.8-149	1.48	40
Phenanthrene	10.9		0.562	ug/L	10.0		109	60-140	2.74	40
Phenol, Total	22.0		1.12	ug/L	20.0		110	60-140	0.377	40
Pyrene	11.2		0.562	ug/L	10.0		112	60-140	3.31	40
<i>Surrogate: 2-Fluorobiphenyl-surr</i>			<i>10.2</i>	<i>ug/L</i>	<i>10.0</i>		<i>102</i>	<i>54.6-148</i>		
<i>Surrogate: 2-Fluorophenol-surr</i>			<i>22.5</i>	<i>ug/L</i>	<i>20.0</i>		<i>113</i>	<i>55-152</i>		
<i>Surrogate: 2,4,6-Tribromophenol-surr</i>			<i>22.8</i>	<i>ug/L</i>	<i>20.0</i>		<i>114</i>	<i>52.4-136</i>		
<i>Surrogate: Nitrobenzene-d5-surr</i>			<i>11.3</i>	<i>ug/L</i>	<i>10.0</i>		<i>113</i>	<i>52-162</i>		
<i>Surrogate: Phenol-d5-surr</i>			<i>24.0</i>	<i>ug/L</i>	<i>20.0</i>		<i>120</i>	<i>58.7-152</i>		
<i>Surrogate: p-Terphenyl-d14-surr</i>			<i>9.93</i>	<i>ug/L</i>	<i>10.0</i>		<i>99.3</i>	<i>51.9-147</i>		

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Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0409 - SW-3511 (Continued)										
MDL SV (BHE0409-MRL1)										
					Prepared: 5/2/2024 Analyzed: 5/13/2024					
1,2,4-Trichlorobenzene	0.612		0.562	ug/L	0.500		122			
1,2-Dichlorobenzene (o-Dichlorobenzene)	0.622		0.562	ug/L	0.500		124			
1,3-Dichlorobenzene (m-Dichlorobenzene)	0.618		0.562	ug/L	0.500		124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	0.616		0.562	ug/L	0.500		123			
2,4-Dichlorophenol	1.37		0.562	ug/L	1.00		137	50-150		
2,4-Dimethylphenol	1.25		1.12	ug/L	1.00		125			
2,4-Dinitrophenol	<4.50	U	4.50	ug/L	2.50					
Acenaphthene	0.659		0.562	ug/L	0.500		132			
Acenaphthylene	0.660		0.562	ug/L	0.500		132			
Anthracene	0.641		0.562	ug/L	0.500		128			
Benzo(a)anthracene	0.682		0.562	ug/L	0.500		136			
Benzo(a)pyrene	0.638		0.562	ug/L	0.500		128			
Benzo(b)fluoranthene	0.687		0.562	ug/L	0.500		137			
Benzo(g,h,i)perylene	0.642		0.562	ug/L	0.500		128			
Benzo(k)fluoranthene	0.557	J	0.562	ug/L	0.500		111			
Chrysene	0.693		0.562	ug/L	0.500		139			
Dibenzo(a,h)anthracene	0.652		0.562	ug/L	0.500		130			
Diethyl phthalate	0.846		0.562	ug/L	0.500		169			
Fluoranthene	0.637		0.562	ug/L	0.500		127			
Fluorene	0.699		0.562	ug/L	0.500		140			
Hexachlorobenzene	0.605		0.562	ug/L	0.500		121			
Indeno(1,2,3-cd) pyrene	0.637		0.562	ug/L	0.500		127			
Naphthalene	0.677		0.562	ug/L	0.500		135			
Pentachlorophenol	1.41		1.12	ug/L	1.00		141			
Phenanthrene	0.673		0.562	ug/L	0.500		135			
Phenol, Total	1.79		1.12	ug/L	1.00		179			
Pyrene	0.648		0.562	ug/L	0.500		130			
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Surrogate: 2-Fluorobiphenyl-surr			10.6	ug/L	10.0		106	54.6-148		
Surrogate: 2-Fluorophenol-surr			23.8	ug/L	20.0		119	55-152		
Surrogate: 2,4,6-Tribromophenol-surr			25.0	ug/L	20.0		125	52.4-136		
Surrogate: Nitrobenzene-d5-surr			11.2	ug/L	10.0		112	52-162		
Surrogate: Phenol-d5-surr			23.7	ug/L	20.0		119	58.7-152		
Surrogate: p-Terphenyl-d14-surr			11.9	ug/L	10.0		119	51.9-147		

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Quality Control
(Continued)

Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0409 - SW-3511 (Continued)										
24D3569-03 MS (BHE0409-MS1)			Source: 24D3569-03			Prepared: 5/2/2024 Analyzed: 5/14/2024				
1,2,4-Trichlorobenzene	9.69		0.556	ug/L	9.89	<0.556	98.0	35.3-142		
1,2-Dichlorobenzene (o-Dichlorobenzene)	9.07		0.556	ug/L	9.89	<0.556	91.7	31.4-142		
1,3-Dichlorobenzene (m-Dichlorobenzene)	8.77		0.556	ug/L	9.89	<0.556	88.7	30.5-135		
1,4-Dichlorobenzene (p-Dichlorobenzene)	9.10		0.556	ug/L	9.89	<0.556	92.0	37.2-133		
2,4-Dichlorophenol	23.3		0.556	ug/L	19.8	<0.556	118	42.7-158		
2,4-Dimethylphenol	22.3		1.11	ug/L	19.8	<1.11	113	38.4-170		
2,4-Dinitrophenol	74.5	J1	4.45	ug/L	49.4	<4.45	151	60-140		
Acenaphthene	10.2		0.556	ug/L	9.89	<0.556	103	47.3-149		
Acenaphthylene	9.90		0.556	ug/L	9.89	<0.556	100	56.5-173		
Anthracene	10.4		0.556	ug/L	9.89	<0.556	105	49.7-160		
Benzo(a)anthracene	10.5		0.556	ug/L	9.89	<0.556	106	41.7-151		
Benzo(a)pyrene	9.94		0.556	ug/L	9.89	<0.556	100	45.4-133		
Benzo(b)fluoranthene	10.1		0.556	ug/L	9.89	<0.556	103	36.9-152		
Benzo(g,h,i)perylene	9.66		0.556	ug/L	9.89	<0.556	97.7	37.9-152		
Benzo(k)fluoranthene	9.78		0.556	ug/L	9.89	<0.556	98.9	31.6-158		
Chrysene	10.4		0.556	ug/L	9.89	<0.556	105	51-147		
Dibenzo(a,h)anthracene	10.6		0.556	ug/L	9.89	<0.556	107	27.5-156		
Diethyl phthalate	11.6		0.556	ug/L	9.89	0.644	110	53.4-146		
Fluoranthene	10.4		0.556	ug/L	9.89	<0.556	105	45.3-156		
Fluorene	10.7		0.556	ug/L	9.89	<0.556	108	56.3-145		
Hexachlorobenzene	9.22		0.556	ug/L	9.89	<0.556	93.2	56.1-137		
Indeno(1,2,3-cd) pyrene	10.1		0.556	ug/L	9.89	<0.556	102	33.4-153		
Naphthalene	10.1		0.556	ug/L	9.89	<0.556	102	45.1-153		
Pentachlorophenol	24.8		1.11	ug/L	19.8	<1.11	125	42.2-151		
Phenanthrene	10.4		0.556	ug/L	9.89	<0.556	105	45.3-165		
Phenol, Total	21.4		1.11	ug/L	19.8	2.52	95.7	39.8-164		
Pyrene	10.3		0.556	ug/L	9.89	<0.556	104	46.3-149		
<hr/>										
Surrogate: 2-Fluorobiphenyl-surr			9.75	ug/L	9.89		98.6	54.6-148		
Surrogate: 2-Fluorophenol-surr			22.4	ug/L	19.8		113	55-152		
Surrogate: 2,4,6-Tribromophenol-surr			22.5	ug/L	19.8		114	52.4-136		
Surrogate: Nitrobenzene-d5-surr			11.3	ug/L	9.89		114	52-162		
Surrogate: Phenol-d5-surr			23.3	ug/L	19.8		118	58.7-152		
Surrogate: p-Terphenyl-d14-surr			8.85	ug/L	9.89		89.5	51.9-147		

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Quality Control
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Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0409 - SW-3511 (Continued)										
24D3569-03 MSD (BHE0409-MSD1)			Source: 24D3569-03			Prepared: 5/2/2024 Analyzed: 5/14/2024				
1,2,4-Trichlorobenzene	9.87		0.558	ug/L	9.92	<0.558	99.5	35.3-142	1.89	40
1,2-Dichlorobenzene (o-Dichlorobenzene)	9.24		0.558	ug/L	9.92	<0.558	93.1	31.4-142	1.83	40
1,3-Dichlorobenzene (m-Dichlorobenzene)	8.49		0.558	ug/L	9.92	<0.558	85.6	30.5-135	3.22	40
1,4-Dichlorobenzene (p-Dichlorobenzene)	9.37		0.558	ug/L	9.92	<0.558	94.4	37.2-133	2.92	40
2,4-Dichlorophenol	24.0		0.558	ug/L	19.8	<0.558	121	42.7-158	3.12	40
2,4-Dimethylphenol	24.2		1.12	ug/L	19.8	<1.12	122	38.4-170	8.00	40
2,4-Dinitrophenol	76.9	J1	4.46	ug/L	49.6	<4.46	155	60-140	3.23	40
Acenaphthene	10.3		0.558	ug/L	9.92	<0.558	104	47.3-149	0.963	40
Acenaphthylene	9.89		0.558	ug/L	9.92	<0.558	99.6	56.5-173	0.160	40
Anthracene	10.3		0.558	ug/L	9.92	<0.558	104	49.7-160	0.930	40
Benzo(a)anthracene	10.2		0.558	ug/L	9.92	<0.558	103	41.7-151	3.06	40
Benzo(a)pyrene	9.44		0.558	ug/L	9.92	<0.558	95.2	45.4-133	5.11	40
Benzo(b)fluoranthene	9.69		0.558	ug/L	9.92	<0.558	97.7	36.9-152	4.51	40
Benzo(g,h,i)perylene	8.76		0.558	ug/L	9.92	<0.558	88.3	37.9-152	9.74	40
Benzo(k)fluoranthene	9.28		0.558	ug/L	9.92	<0.558	93.5	31.6-158	5.23	40
Chrysene	10.1		0.558	ug/L	9.92	<0.558	102	51-147	2.69	40
Dibenzo(a,h)anthracene	9.79		0.558	ug/L	9.92	<0.558	98.6	27.5-156	8.11	40
Diethyl phthalate	11.8		0.558	ug/L	9.92	0.644	113	53.4-146	2.18	40
Fluoranthene	10.2		0.558	ug/L	9.92	<0.558	103	45.3-156	1.27	40
Fluorene	10.7		0.558	ug/L	9.92	<0.558	108	56.3-145	0.227	40
Hexachlorobenzene	9.01		0.558	ug/L	9.92	<0.558	90.8	56.1-137	2.30	40
Indeno(1,2,3-cd) pyrene	9.37		0.558	ug/L	9.92	<0.558	94.4	33.4-153	7.52	40
Naphthalene	10.3		0.558	ug/L	9.92	<0.558	103	45.1-153	1.57	40
Pentachlorophenol	24.8		1.12	ug/L	19.8	<1.12	125	42.2-151	0.263	40
Phenanthrene	10.3		0.558	ug/L	9.92	<0.558	104	45.3-165	0.778	40
Phenol, Total	22.0		1.12	ug/L	19.8	2.52	98.2	39.8-164	2.63	40
Pyrene	10.2		0.558	ug/L	9.92	<0.558	102	46.3-149	1.03	40
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Surrogate: 2-Fluorobiphenyl-surr			9.76	ug/L	9.92		98.4	54.6-148		
Surrogate: 2-Fluorophenol-surr			22.9	ug/L	19.8		115	55-152		
Surrogate: 2,4,6-Tribromophenol-surr			22.4	ug/L	19.8		113	52.4-136		
Surrogate: Nitrobenzene-d5-surr			11.5	ug/L	9.92		116	52-162		
Surrogate: Phenol-d5-surr			24.0	ug/L	19.8		121	58.7-152		
Surrogate: p-Terphenyl-d14-surr			8.32	ug/L	9.92		83.9	51.9-147		

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Quality Control
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Organics by GC

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0150 - SW-3511										
Blank (BHE0150-BLK1)										
Prepared: 5/1/2024 Analyzed: 5/7/2024										
PCBs, Total	0.0110	J	0.120	ug/L						
Surrogate: 2,4,5,6			0.151	ug/L	0.120		126	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.111	ug/L	0.120		92.8	60-140		
LCS (BHE0150-BS1)										
Prepared: 5/1/2024 Analyzed: 5/7/2024										
Aroclor-1016 (PCB-1016)	1.06		0.120	ug/L	1.20		87.9	60-140		
Aroclor-1260 (PCB-1260)	0.750		0.120	ug/L	1.20		62.5	60-140		
PCBs, Total	0.903		0.120	ug/L	1.20		75.2	60-140		
Surrogate: 2,4,5,6			0.0977	ug/L	0.120		81.4	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.0745	ug/L	0.120		62.1	60-140		
LCS Dup (BHE0150-BSD1)										
Prepared: 5/1/2024 Analyzed: 5/7/2024										
Aroclor-1016 (PCB-1016)	1.09		0.120	ug/L	1.20		90.7	60-140	3.10	40
Aroclor-1260 (PCB-1260)	0.810		0.120	ug/L	1.20		67.5	60-140	7.70	40
PCBs, Total	0.949		0.120	ug/L	1.20		79.1	60-140	5.04	40
Surrogate: 2,4,5,6			0.0958	ug/L	0.120		79.8	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.0801	ug/L	0.120		66.8	60-140		
MRL Check (BHE0150-MRL1)										
Prepared: 5/1/2024 Analyzed: 5/7/2024										
Aroclor-1016 (PCB-1016)	0.222		0.120	ug/L	0.240		92.7	50-150		
Aroclor-1260 (PCB-1260)	0.182		0.120	ug/L	0.240		75.8	50-150		
PCBs, Total	0.202		0.120	ug/L	0.240		84.2	50-150		
Surrogate: 2,4,5,6			0.113	ug/L	0.120		94.1	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.0866	ug/L	0.120		72.2	60-140		
Matrix Spike (BHE0150-MS1)										
Source: 24D3569-02										
Prepared: 5/1/2024 Analyzed: 5/7/2024										
Aroclor-1016 (PCB-1016)	0.658	J1	0.120	ug/L	1.20	<0.120	54.9	60-140		
Aroclor-1260 (PCB-1260)	0.382	J1	0.120	ug/L	1.20	<0.120	31.8	60-140		
PCBs, Total	0.520	J1	0.120	ug/L	1.20	<0.120	43.3	60-140		
Surrogate: 2,4,5,6			0.0736	ug/L	0.120		61.4	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.0363	ug/L	0.120		30.2	60-140		

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Quality Control
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Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0150 - SW-3511 (Continued)

Matrix Spike Dup (BHE0150-MSD1)

Source: 24D3569-02

Prepared: 5/1/2024 Analyzed: 5/7/2024

Aroclor-1016 (PCB-1016)	0.700	J1	0.120	ug/L	1.20	<0.120	58.3	60-140	6.14	40
Aroclor-1260 (PCB-1260)	0.370	J1	0.120	ug/L	1.20	<0.120	30.9	60-140	3.15	40
PCBs, Total	0.535	J1	0.120	ug/L	1.20	<0.120	44.6	60-140	2.83	40
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Surrogate: 2,4,5,6			0.0812	ug/L	0.120		67.7	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr	S		0.0274	ug/L	0.120		22.8	60-140		

Batch: BHE0155 - SW-3570

Blank (BHE0155-BLK1)

Prepared: 5/1/2024 Analyzed: 5/16/2024

PCBs, Total	<0.572	U	0.572	ug/kg wet						
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Surrogate: 2,4,5,6		S	0.154	ug/kg wet	0.572		26.8	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.218	ug/kg wet	0.572		38.1	60-140		

LCS (BHE0155-BS1)

Prepared: 5/1/2024 Analyzed: 5/16/2024

Aroclor-1016 (PCB-1016)	2.69	J1	0.577	ug/kg wet	5.77		46.6	60-140		
Aroclor-1260 (PCB-1260)	2.27	J1	0.577	ug/kg wet	5.77		39.3	60-140		
PCBs, Total	2.48	J1	0.577	ug/kg wet	5.77		43.0	60-140		
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Surrogate: 2,4,5,6		S	0.175	ug/kg wet	0.577		30.4	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.203	ug/kg wet	0.577		35.1	60-140		

LCS Dup (BHE0155-BSD1)

Prepared: 5/1/2024 Analyzed: 5/16/2024

Aroclor-1016 (PCB-1016)	2.93	J1	0.596	ug/kg wet	5.96		49.2	60-140	8.58	40
Aroclor-1260 (PCB-1260)	2.40	J1	0.596	ug/kg wet	5.96		40.3	60-140	5.57	40
PCBs, Total	2.67	J1	0.596	ug/kg wet	5.96		44.7	60-140	7.22	40
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Surrogate: 2,4,5,6		S	0.205	ug/kg wet	0.596		34.3	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.200	ug/kg wet	0.596		33.5	60-140		

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Quality Control
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Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0155 - SW-3570 (Continued)

MRL Check (BHE0155-MRL1)

Prepared: 5/1/2024 Analyzed: 5/16/2024

Aroclor-1016 (PCB-1016)	0.573	J1, J	0.578	ug/kg wet	1.16		49.6	50-150		
Aroclor-1221 (PCB-1221)	<0.578	U	0.578	ug/kg wet				50-150		
Aroclor-1232 (PCB-1232)	<0.578	U	0.578	ug/kg wet				50-150		
Aroclor-1242 (PCB-1242)	<0.578	U	0.578	ug/kg wet				50-150		
Aroclor-1248 (PCB-1248)	<0.578	U	0.578	ug/kg wet				50-150		
Aroclor-1254 (PCB-1254)	<0.578	U	0.578	ug/kg wet				50-150		
Aroclor-1260 (PCB-1260)	0.480	J1, J	0.578	ug/kg wet	1.16		41.5	50-150		
PCBs, Total	0.526	J1, J	0.578	ug/kg wet	1.16		45.5	50-150		
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Surrogate: 2,4,5,6		S	0.143	ug/kg wet	0.578		24.8	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.204	ug/kg wet	0.578		35.2	60-140		

Matrix Spike (BHE0155-MS1)

Source: 24D3569-06

Prepared: 5/1/2024 Analyzed: 5/16/2024

Aroclor-1016 (PCB-1016)	7.03		0.989	ug/kg dry	9.89	<0.989	71.0	60-140		
Aroclor-1260 (PCB-1260)	3.70	J1	0.989	ug/kg dry	9.89	<0.989	37.4	60-140		
PCBs, Total	5.36	J1	0.989	ug/kg dry	9.89	<0.989	54.2	60-140		
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Surrogate: 2,4,5,6			0.622	ug/kg dry	0.989		62.9	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.392	ug/kg dry	0.989		39.6	60-140		

Matrix Spike Dup (BHE0155-MSD1)

Source: 24D3569-06

Prepared: 5/1/2024 Analyzed: 5/16/2024

Aroclor-1016 (PCB-1016)	6.40		1.03	ug/kg dry	10.3	<1.03	62.3	60-140	9.39	40
Aroclor-1260 (PCB-1260)	3.22	J1	1.03	ug/kg dry	10.3	<1.03	31.4	60-140	14.0	40
PCBs, Total	4.81	J1	1.03	ug/kg dry	10.3	<1.03	46.9	60-140	10.9	40
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Surrogate: 2,4,5,6			0.754	ug/kg dry	1.03		73.5	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.351	ug/kg dry	1.03		34.2	60-140		

Batch: BHE0407 - SW-3511

Blank (BHE0407-BLK1)

Prepared: 5/2/2024 Analyzed: 5/20/2024

Toxaphene (Chlorinated Camphene)	<0.300	U	0.300	ug/L						
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Surrogate: 2,4,5,6			0.134	ug/L	0.120		112	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.148	ug/L	0.120		123	60-140		



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**Quality Control
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Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0407 - SW-3511 (Continued)

Blank (BHE0407-BLK2)

Prepared: 5/2/2024 Analyzed: 5/20/2024

4,4'-DDD	<0.00600	U	0.00600	ug/L						
4,4'-DDE	<0.00600	U	0.00600	ug/L						
4,4'-DDT	<0.00600	U	0.00600	ug/L						
Aldrin	<0.00600	U	0.00600	ug/L						
alpha-BHC	<0.00600	U	0.00600	ug/L						
(alpha-Hexachlorocyclohexane)										
beta-BHC	<0.00600	U	0.00600	ug/L						
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	<0.00600	U	0.00600	ug/L						
cis-Chlordane (alpha-Chlordane)	<0.00600	U	0.00600	ug/L						
delta-BHC	<0.00600	U	0.00600	ug/L						
Dieldrin	<0.00600	U	0.00600	ug/L						
Endosulfan I	<0.00600	U	0.00600	ug/L						
Endosulfan II	<0.00600	U	0.00600	ug/L						
Endosulfan sulfate	<0.00600	U	0.00600	ug/L						
Endrin	<0.00600	U	0.00600	ug/L						
Endrin aldehyde	<0.00600	U	0.00600	ug/L						
Endrin ketone	<0.00600	U	0.00600	ug/L						
gamma-BHC (Lindane,	<0.00600	U	0.00600	ug/L						
gamma-HexachlorocyclohexanE)										
gamma-Chlordane	<0.00600	U	0.00600	ug/L						
Heptachlor	<0.00600	U	0.00600	ug/L						
Heptachlor epoxide	<0.00600	U	0.00600	ug/L						
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Surrogate: 2,4,5,6			0.101	ug/L	0.120		84.2	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.118	ug/L	0.120		98.1	60-140		

TOX LCS (BHE0407-BS1)

Prepared: 5/2/2024 Analyzed: 5/20/2024

Toxaphene (Chlorinated Camphene)	1.41		0.300	ug/L	1.20		117	60-140		
<hr/>										
Surrogate: 2,4,5,6			0.144	ug/L	0.120		120	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.156	ug/L	0.120		130	60-140		

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Quality Control
(Continued)

Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0407 - SW-3511 (Continued)

LCS (BHE0407-BS2)

Prepared: 5/2/2024 Analyzed: 5/20/2024

4,4'-DDD	0.0962		0.00600	ug/L	0.120		80.2	60-140		
4,4'-DDE	0.0891		0.00600	ug/L	0.120		74.3	60-140		
4,4'-DDT	0.0933		0.00600	ug/L	0.120		77.8	60-140		
Aldrin	0.0995		0.00600	ug/L	0.120		83.0	60-140		
alpha-BHC	0.115		0.00600	ug/L	0.120		95.8	60-140		
(alpha-Hexachlorocyclohexane)										
beta-BHC	0.116		0.00600	ug/L	0.120		96.4	60-140		
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	0.447		0.00600	ug/L	0.480		93.1	60-140		
cis-Chlordane (alpha-Chlordane)	0.102		0.00600	ug/L	0.120		84.9	60-140		
delta-BHC	0.116		0.00600	ug/L	0.120		97.1	60-140		
Dieldrin	0.0932		0.00600	ug/L	0.120		77.7	60-140		
Endosulfan I	0.0985		0.00600	ug/L	0.120		82.1	60-140		
Endosulfan II	0.0934		0.00600	ug/L	0.120		77.9	60-140		
Endosulfan sulfate	0.0997		0.00600	ug/L	0.120		83.1	60-140		
Endrin	0.108		0.00600	ug/L	0.120		90.0	60-140		
Endrin aldehyde	0.0829		0.00600	ug/L	0.120		69.1	60-140		
Endrin ketone	0.0980		0.00600	ug/L	0.120		81.7	60-140		
gamma-BHC (Lindane,	0.115		0.00600	ug/L	0.120		95.9	60-140		
gamma-HexachlorocyclohexanE)										
gamma-Chlordane	0.108		0.00600	ug/L	0.120		90.2	60-140		
Heptachlor	0.122		0.00600	ug/L	0.120		102	60-140		
Heptachlor epoxide	0.114		0.00600	ug/L	0.120		95.2	60-140		
<hr/>										
Surrogate: 2,4,5,6			0.0867	ug/L	0.120		72.2	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.109	ug/L	0.120		90.9	60-140		

TOX LCSD (BHE0407-BS1)

Prepared: 5/2/2024 Analyzed: 5/20/2024

Toxaphene (Chlorinated Camphene)	1.56		0.300	ug/L	1.20		130	60-140	10.4	40
<hr/>										
Surrogate: 2,4,5,6			0.117	ug/L	0.120		97.1	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.146	ug/L	0.120		122	60-140		

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Quality Control
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Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0407 - SW-3511 (Continued)

LCS Dup (BHE0407-BSD2)		Prepared: 5/2/2024 Analyzed: 5/20/2024								
4,4'-DDD	0.0879		0.00600	ug/L	0.120		73.3	60-140	9.00	40
4,4'-DDE	0.0885		0.00600	ug/L	0.120		73.7	60-140	0.769	40
4,4'-DDT	0.0927		0.00600	ug/L	0.120		77.3	60-140	0.626	40
Aldrin	0.104		0.00600	ug/L	0.120		86.8	60-140	4.48	40
alpha-BHC	0.112		0.00600	ug/L	0.120		93.2	60-140	2.67	40
(alpha-Hexachlorocyclohexane)										
beta-BHC	0.113		0.00600	ug/L	0.120		94.5	60-140	1.94	40
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	0.454		0.00600	ug/L	0.480		94.6	60-140	1.59	40
cis-Chlordane (alpha-Chlordane)	0.106		0.00600	ug/L	0.120		88.3	60-140	3.90	40
delta-BHC	0.117		0.00600	ug/L	0.120		97.4	60-140	0.301	40
Dieldrin	0.0844		0.00600	ug/L	0.120		70.4	60-140	9.91	40
Endosulfan I	0.100		0.00600	ug/L	0.120		83.6	60-140	1.84	40
Endosulfan II	0.0944		0.00600	ug/L	0.120		78.7	60-140	1.05	40
Endosulfan sulfate	0.100		0.00600	ug/L	0.120		83.5	60-140	0.471	40
Endrin	0.109		0.00600	ug/L	0.120		90.8	60-140	0.962	40
Endrin aldehyde	0.111		0.00600	ug/L	0.120		92.8	60-140	29.3	40
Endrin ketone	0.111		0.00600	ug/L	0.120		92.9	60-140	12.9	40
gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	0.123		0.00600	ug/L	0.120		102	60-140	6.31	40
gamma-Chlordane	0.111		0.00600	ug/L	0.120		92.3	60-140	2.23	40
Heptachlor	0.121		0.00600	ug/L	0.120		101	60-140	0.779	40
Heptachlor epoxide	0.116		0.00600	ug/L	0.120		96.5	60-140	1.39	40
<i>Surrogate: 2,4,5,6</i>			<i>0.0931</i>	<i>ug/L</i>	<i>0.120</i>		<i>77.6</i>	<i>60-140</i>		
<i>Tetrachloro-m-xylene-surr</i>										
<i>Surrogate: Decachlorobiphenyl-surr</i>			<i>0.114</i>	<i>ug/L</i>	<i>0.120</i>		<i>95.2</i>	<i>60-140</i>		

TOX MRL (BHE0407-MRL1)		Prepared: 5/2/2024 Analyzed: 5/20/2024								
Toxaphene (Chlorinated Camphene)	0.412		0.300	ug/L	0.300		137	50-150		
<i>Surrogate: 2,4,5,6</i>			<i>0.136</i>	<i>ug/L</i>	<i>0.120</i>		<i>113</i>	<i>60-140</i>		
<i>Tetrachloro-m-xylene-surr</i>										
<i>Surrogate: Decachlorobiphenyl-surr</i>			<i>0.169</i>	<i>ug/L</i>	<i>0.120</i>		<i>140</i>	<i>60-140</i>		

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Quality Control
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Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0407 - SW-3511 (Continued)

MRL Check (BHE0407-MRL2)

Prepared: 5/2/2024 Analyzed: 5/20/2024

4,4'-DDD	0.00793		0.00600	ug/L	0.0120		66.1	50-150		
4,4'-DDE	0.00810		0.00600	ug/L	0.0120		67.5	50-150		
4,4'-DDT	0.00822		0.00600	ug/L	0.0120		68.5	50-150		
Aldrin	0.0109		0.00600	ug/L	0.0120		90.6	50-150		
alpha-BHC (alpha-Hexachlorocyclohexane)	0.0108		0.00600	ug/L	0.0120		90.1	50-150		
beta-BHC (beta-Hexachlorocyclohexane)	0.0109		0.00600	ug/L	0.0120		91.0	50-150		
Chlordane (Total)	0.0433		0.00600	ug/L	0.0480		90.3	50-150		
cis-Chlordane (alpha-Chlordane)	0.00818		0.00600	ug/L	0.0120		68.1	50-150		
delta-BHC	0.0117		0.00600	ug/L	0.0120		97.6	50-150		
Dieldrin	0.00952		0.00600	ug/L	0.0120		79.4	50-150		
Endosulfan I	<0.00600	J1, U	0.00600	ug/L	0.0120			50-150		
Endosulfan II	<0.00600	J1, U	0.00600	ug/L	0.0120			50-150		
Endosulfan sulfate	0.00872		0.00600	ug/L	0.0120		72.6	50-150		
Endrin	0.0104		0.00600	ug/L	0.0120		86.9	50-150		
Endrin aldehyde	0.0140		0.00600	ug/L	0.0120		117	50-150		
Endrin ketone	0.00815		0.00600	ug/L	0.0120		67.9	50-150		
gamma-BHC (Lindane, gamma-HexachlorocyclohexaneE)	0.0140		0.00600	ug/L	0.0120		117	50-150		
gamma-Chlordane	0.0112		0.00600	ug/L	0.0120		93.4	50-150		
Heptachlor	0.0122		0.00600	ug/L	0.0120		102	50-150		
Heptachlor epoxide	0.0117		0.00600	ug/L	0.0120		97.7	50-150		
<hr/>										
Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr			0.0935	ug/L	0.120		77.9	60-140		
Surrogate: Decachlorobiphenyl-surr			0.128	ug/L	0.120		107	60-140		

Matrix Spike (BHE0407-MS1)

Source: 24D4281-05RE1

Prepared: 5/2/2024 Analyzed: 5/20/2024

4,4'-DDD	0.305	J1	0.0300	ug/L	0.600	<0.0300	50.8	60-140		
4,4'-DDE	0.178	J1	0.0300	ug/L	0.600	<0.0300	29.7	60-140		
4,4'-DDT	0.184	J1	0.0300	ug/L	0.600	<0.0300	30.6	60-140		
Aldrin	0.236	J1	0.0300	ug/L	0.600	<0.0300	39.3	60-140		
alpha-BHC (alpha-Hexachlorocyclohexane)	0.616		0.0300	ug/L	0.600	<0.0300	103	60-140		
beta-BHC (beta-Hexachlorocyclohexane)	0.663		0.0300	ug/L	0.600	<0.0300	111	60-140		
Chlordane (Total)	1.72		0.0300	ug/L	2.40	<0.0300	71.8	60-140		
cis-Chlordane (alpha-Chlordane)	0.403		0.0300	ug/L	0.600	<0.0300	67.1	60-140		
delta-BHC	0.638		0.0300	ug/L	0.600	<0.0300	106	60-140		
Dieldrin	0.457		0.0300	ug/L	0.600	<0.0300	76.1	60-140		
Endosulfan I	0.458		0.0300	ug/L	0.600	<0.0300	76.3	60-140		
Endosulfan II	0.470		0.0300	ug/L	0.600	<0.0300	78.3	60-140		
Endosulfan sulfate	0.493		0.0300	ug/L	0.600	<0.0300	82.1	60-140		
Endrin	0.541		0.0300	ug/L	0.600	<0.0300	90.2	60-140		
Endrin aldehyde	0.430		0.0300	ug/L	0.600	<0.0300	71.7	60-140		
Endrin ketone	0.461		0.0300	ug/L	0.600	<0.0300	76.8	60-140		

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Quality Control
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Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0407 - SW-3511 (Continued)										
Matrix Spike (BHE0407-MS1)			Source: 24D4281-05RE1			Prepared: 5/2/2024 Analyzed: 5/20/2024				
gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	0.601		0.0300	ug/L	0.600	<0.0300	100	60-140		
gamma-Chlordane	0.354	J1	0.0300	ug/L	0.600	<0.0300	59.0	60-140		
Heptachlor	0.405		0.0300	ug/L	0.600	<0.0300	67.5	60-140		
Heptachlor epoxide	0.560		0.0300	ug/L	0.600	<0.0300	93.4	60-140		

Surrogate: 2,4,5,6		S	0.285	ug/L	0.600		47.5	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.276	ug/L	0.600		46.1	60-140		

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (BHE0407-MSD1)										
Source: 24D4281-05RE1			Prepared: 5/2/2024 Analyzed: 5/21/2024							
4,4'-DDD	0.256	J1	0.0300	ug/L	0.600	<0.0300	42.7	60-140	17.2	40
4,4'-DDE	0.137	J1	0.0300	ug/L	0.600	<0.0300	22.8	60-140	26.3	40
4,4'-DDT	0.103	J1	0.0300	ug/L	0.600	<0.0300	17.2	60-140	56.2	40
Aldrin	0.192	J1	0.0300	ug/L	0.600	<0.0300	32.1	60-140	20.3	40
alpha-BHC (alpha-Hexachlorocyclohexane)	0.602		0.0300	ug/L	0.600	<0.0300	100	60-140	2.24	40
beta-BHC (beta-Hexachlorocyclohexane)	0.633		0.0300	ug/L	0.600	<0.0300	106	60-140	4.62	40
Chlordane (Total)	1.55		0.0300	ug/L	2.40	<0.0300	64.5	60-140	10.6	40
cis-Chlordane (alpha-Chlordane)	0.354	J1	0.0300	ug/L	0.600	<0.0300	59.0	60-140	12.8	40
delta-BHC	0.651		0.0300	ug/L	0.600	<0.0300	109	60-140	2.06	40
Dieldrin	0.407		0.0300	ug/L	0.600	<0.0300	67.9	60-140	11.4	40
Endosulfan I	0.432		0.0300	ug/L	0.600	<0.0300	72.0	60-140	5.80	40
Endosulfan II	0.479		0.0300	ug/L	0.600	<0.0300	79.9	60-140	1.95	40
Endosulfan sulfate	0.479		0.0300	ug/L	0.600	<0.0300	79.8	60-140	2.90	40
Endrin	0.499		0.0300	ug/L	0.600	<0.0300	83.2	60-140	8.17	40
Endrin aldehyde	0.446		0.0300	ug/L	0.600	<0.0300	74.3	60-140	3.59	40
Endrin ketone	0.485		0.0300	ug/L	0.600	<0.0300	80.8	60-140	5.09	40
gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	0.606		0.0300	ug/L	0.600	<0.0300	101	60-140	0.853	40
gamma-Chlordane	0.289	J1	0.0300	ug/L	0.600	<0.0300	48.2	60-140	20.3	40
Heptachlor	0.366		0.0300	ug/L	0.600	<0.0300	61.0	60-140	10.2	40
Heptachlor epoxide	0.540		0.0300	ug/L	0.600	<0.0300	90.0	60-140	3.70	40

Surrogate: 2,4,5,6		S	0.270	ug/L	0.600		45.0	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.202	ug/L	0.600		33.7	60-140		

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Quality Control
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Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0925 - SW-3570

Blank (BHE0925-BLK1)

Prepared: 5/6/2024 Analyzed: 5/16/2024

4,4'-DDD	<0.968	U	0.968	ug/kg wet						
4,4'-DDE	<0.968	U	0.968	ug/kg wet						
4,4'-DDT	<0.968	U	0.968	ug/kg wet						
Aldrin	<0.968	U	0.968	ug/kg wet						
alpha-BHC	<0.968	U	0.968	ug/kg wet						
(alpha-Hexachlorocyclohexane)										
beta-BHC	<0.968	U	0.968	ug/kg wet						
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	<0.968	U	0.968	ug/kg wet						
cis-Chlordane (alpha-Chlordane)	<0.968	U	0.968	ug/kg wet						
delta-BHC	<0.968	U	0.968	ug/kg wet						
Dieldrin	<0.968	U	0.968	ug/kg wet						
Endosulfan I	<0.968	U	0.968	ug/kg wet						
Endosulfan II	<0.968	U	0.968	ug/kg wet						
Endosulfan sulfate	<0.968	U	0.968	ug/kg wet						
Endrin	<0.968	U	0.968	ug/kg wet						
Endrin aldehyde	<0.968	U	0.968	ug/kg wet						
Endrin ketone	<0.968	U	0.968	ug/kg wet						
gamma-BHC (Lindane,	<0.968	U	0.968	ug/kg wet						
gamma-HexachlorocyclohexanE)										
gamma-Chlordane	<0.968	U	0.968	ug/kg wet						
Heptachlor	<0.968	U	0.968	ug/kg wet						
Heptachlor epoxide	<0.968	U	0.968	ug/kg wet						
Toxaphene (Chlorinated Camphene)	<14.5	U	14.5	ug/kg wet						
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Surrogate: 2,4,5,6			4.44	ug/kg wet	5.81		76.5	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			7.01	ug/kg wet	5.81		121	60-140		

LCS TOX (BHE0925-BS1)

Prepared: 5/6/2024 Analyzed: 5/17/2024

Toxaphene (Chlorinated Camphene)	56.5		14.6	ug/kg wet	58.3		96.9	60-140		
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Surrogate: 2,4,5,6			5.11	ug/kg wet	5.83		87.6	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			6.51	ug/kg wet	5.83		112	60-140		

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Quality Control
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Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0925 - SW-3570 (Continued)

LCS (BHE0925-BS2)

Prepared: 5/6/2024 Analyzed: 5/17/2024

4,4'-DDD	6.66		0.990	ug/kg wet	5.94		112	60-140		
4,4'-DDE	6.95		0.990	ug/kg wet	5.94		117	60-140		
4,4'-DDT	7.08		0.990	ug/kg wet	5.94		119	60-140		
Aldrin	7.14		0.990	ug/kg wet	5.94		120	60-140		
alpha-BHC	7.34		0.990	ug/kg wet	5.94		124	60-140		
(alpha-Hexachlorocyclohexane)										
beta-BHC	7.24		0.990	ug/kg wet	5.94		122	60-140		
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	27.7		0.990	ug/kg wet	23.8		117	60-140		
cis-Chlordane (alpha-Chlordane)	6.88		0.990	ug/kg wet	5.94		116	60-140		
delta-BHC	6.61		0.990	ug/kg wet	5.94		111	60-140		
Dieldrin	6.64		0.990	ug/kg wet	5.94		112	60-140		
Endosulfan I	7.04		0.990	ug/kg wet	5.94		118	60-140		
Endosulfan II	6.74		0.990	ug/kg wet	5.94		113	60-140		
Endosulfan sulfate	7.29		0.990	ug/kg wet	5.94		123	60-140		
Endrin	6.71		0.990	ug/kg wet	5.94		113	60-140		
Endrin aldehyde	6.20		0.990	ug/kg wet	5.94		104	60-140		
Endrin ketone	5.95		0.990	ug/kg wet	5.94		100	60-140		
gamma-BHC (Lindane,	7.84		0.990	ug/kg wet	5.94		132	60-140		
gamma-HexachlorocyclohexanE)										
gamma-Chlordane	7.35		0.990	ug/kg wet	5.94		124	60-140		
Heptachlor	6.23		0.990	ug/kg wet	5.94		105	60-140		
Heptachlor epoxide	7.27		0.990	ug/kg wet	5.94		122	60-140		
<hr/>										
Surrogate: 2,4,5,6			5.38	ug/kg wet	5.94		90.6	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			7.06	ug/kg wet	5.94		119	60-140		

LCSD TOX (BHE0925-BS1)

Prepared: 5/6/2024 Analyzed: 5/17/2024

Toxaphene (Chlorinated Camphene)	57.2		14.9	ug/kg wet	59.6		96.0	60-140	1.33	40
<hr/>										
Surrogate: 2,4,5,6			7.17	ug/kg wet	5.96		120	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			6.79	ug/kg wet	5.96		114	60-140		

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Quality Control
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Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0925 - SW-3570 (Continued)										
LCS Dup (BHE0925-BSD2)										
Prepared: 5/6/2024 Analyzed: 5/17/2024										
4,4'-DDD	5.80		0.945	ug/kg wet	5.67		102	60-140	13.8	40
4,4'-DDE	6.22		0.945	ug/kg wet	5.67		110	60-140	11.1	40
4,4'-DDT	6.47		0.945	ug/kg wet	5.67		114	60-140	8.96	40
Aldrin	5.83		0.945	ug/kg wet	5.67		103	60-140	20.2	40
alpha-BHC	6.45		0.945	ug/kg wet	5.67		114	60-140	12.8	40
(alpha-Hexachlorocyclohexane)										
beta-BHC	6.21		0.945	ug/kg wet	5.67		110	60-140	15.3	40
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	23.7		0.945	ug/kg wet	22.7		105	60-140	15.6	40
cis-Chlordane (alpha-Chlordane)	6.21		0.945	ug/kg wet	5.67		110	60-140	10.2	40
delta-BHC	5.81		0.945	ug/kg wet	5.67		102	60-140	12.8	40
Dieldrin	5.90		0.945	ug/kg wet	5.67		104	60-140	11.8	40
Endosulfan I	6.26		0.945	ug/kg wet	5.67		110	60-140	11.7	40
Endosulfan II	5.94		0.945	ug/kg wet	5.67		105	60-140	12.5	40
Endosulfan sulfate	6.68		0.945	ug/kg wet	5.67		118	60-140	8.74	40
Endrin	6.20		0.945	ug/kg wet	5.67		109	60-140	7.90	40
Endrin aldehyde	6.40		0.945	ug/kg wet	5.67		113	60-140	3.09	40
Endrin ketone	6.65		0.945	ug/kg wet	5.67		117	60-140	11.1	40
gamma-BHC (Lindane,	6.69		0.945	ug/kg wet	5.67		118	60-140	15.8	40
gamma-HexachlorocyclohexanE)										
gamma-Chlordane	6.21		0.945	ug/kg wet	5.67		109	60-140	16.9	40
Heptachlor	5.27		0.945	ug/kg wet	5.67		92.9	60-140	16.7	40
Heptachlor epoxide	6.02		0.945	ug/kg wet	5.67		106	60-140	18.7	40
<hr/>										
Surrogate: 2,4,5,6			4.52	ug/kg wet	5.67		79.7	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			6.71	ug/kg wet	5.67		118	60-140		

MRL TOX (BHE0925-MRL1)

Prepared: 5/6/2024 Analyzed: 5/16/2024										
Toxaphene (Chlorinated Camphene)	<14.9	J1, U	14.9	ug/kg wet	14.9			50-150		
<hr/>										
Surrogate: 2,4,5,6			5.20	ug/kg wet	5.98		87.0	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			6.77	ug/kg wet	5.98		113	60-140		

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Quality Control
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Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0925 - SW-3570 (Continued)

MRL Check (BHE0925-MRL2)

Prepared: 5/6/2024 Analyzed: 5/17/2024

4,4'-DDD	0.302	J	0.992	ug/kg wet	0.397		76.2			
4,4'-DDE	0.344	J	0.992	ug/kg wet	0.397		86.8			
4,4'-DDT	0.320	J	0.992	ug/kg wet	0.397		80.7			
Aldrin	0.316	J	0.992	ug/kg wet	0.397		79.7			
alpha-BHC	0.396	J	0.992	ug/kg wet	0.397		99.9			
(alpha-Hexachlorocyclohexane)										
beta-BHC	0.327	J	0.992	ug/kg wet	0.397		82.4			
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	1.35		0.992	ug/kg wet	1.59		85.2	50-150		
cis-Chlordane (alpha-Chlordane)	0.411	J	0.992	ug/kg wet	0.397		104			
delta-BHC	0.306	J	0.992	ug/kg wet	0.397		77.0			
Dieldrin	0.434	J	0.992	ug/kg wet	0.397		109			
Endosulfan I	0.393	J	0.992	ug/kg wet	0.397		99.1			
Endosulfan II	0.311	J	0.992	ug/kg wet	0.397		78.2			
Endosulfan sulfate	0.335	J	0.992	ug/kg wet	0.397		84.4			
Endrin	0.262	J	0.992	ug/kg wet	0.397		66.1			
Endrin aldehyde	0.302	J	0.992	ug/kg wet	0.397		76.2			
Endrin ketone	0.529	J	0.992	ug/kg wet	0.397		133			
gamma-BHC (Lindane,	0.418	J	0.992	ug/kg wet	0.397		105			
gamma-HexachlorocyclohexanE)										
gamma-Chlordane	0.367	J	0.992	ug/kg wet	0.397		92.6			
Heptachlor	0.281	J	0.992	ug/kg wet	0.397		70.7			
Heptachlor epoxide	0.293	J	0.992	ug/kg wet	0.397		73.9			
<hr/>										
Surrogate: 2,4,5,6			4.03	ug/kg wet	5.95		67.7	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			6.91	ug/kg wet	5.95		116	60-140		

Matrix Spike (BHE0925-MS1)

Source: 24D3569-06RE1

Prepared: 5/6/2024 Analyzed: 5/17/2024

4,4'-DDD	11.5		1.66	ug/kg dry	9.96	<1.66	116	60-140		
4,4'-DDE	11.5		1.66	ug/kg dry	9.96	<1.66	116	60-140		
4,4'-DDT	12.6		1.66	ug/kg dry	9.96	<1.66	127	60-140		
Aldrin	13.9		1.66	ug/kg dry	9.96	<1.66	139	60-140		
alpha-BHC	14.1	J1	1.66	ug/kg dry	9.96	<1.66	141	60-140		
(alpha-Hexachlorocyclohexane)										
beta-BHC	15.0	J1	1.66	ug/kg dry	9.96	<1.66	151	60-140		
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	54.2		1.66	ug/kg dry	39.8	<1.66	136	60-140		
cis-Chlordane (alpha-Chlordane)	12.1		1.66	ug/kg dry	9.96	<1.66	122	60-140		
delta-BHC	13.8		1.66	ug/kg dry	9.96	<1.66	138	60-140		
Dieldrin	14.1	J1	1.66	ug/kg dry	9.96	<1.66	142	60-140		
Endosulfan I	11.9		1.66	ug/kg dry	9.96	<1.66	120	60-140		
Endosulfan II	10.8		1.66	ug/kg dry	9.96	<1.66	108	60-140		
Endosulfan sulfate	12.8		1.66	ug/kg dry	9.96	<1.66	128	60-140		
Endrin	17.7	J1	1.66	ug/kg dry	9.96	<1.66	178	60-140		
Endrin aldehyde	11.0		1.66	ug/kg dry	9.96	<1.66	110	60-140		
Endrin ketone	10.3		1.66	ug/kg dry	9.96	<1.66	104	60-140		

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Quality Control
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Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0925 - SW-3570 (Continued)										
Matrix Spike (BHE0925-MS1)			Source: 24D3569-06RE1			Prepared: 5/6/2024 Analyzed: 5/17/2024				
gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	14.8	J1	1.66	ug/kg dry	9.96	<1.66	149	60-140		
gamma-Chlordane	13.5		1.66	ug/kg dry	9.96	<1.66	135	60-140		
Heptachlor	13.9		1.66	ug/kg dry	9.96	<1.66	140	60-140		
Heptachlor epoxide	14.7	J1	1.66	ug/kg dry	9.96	<1.66	147	60-140		

Surrogate: 2,4,5,6			8.93	ug/kg dry	9.96		89.6	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			11.1	ug/kg dry	9.96		111	60-140		

Matrix Spike Dup (BHE0925-MSD1)

Source: 24D3569-06RE1

Prepared: 5/6/2024 Analyzed: 5/17/2024

4,4'-DDD	12.3		1.74	ug/kg dry	10.5	<1.74	118	60-140	6.53	40
4,4'-DDE	12.0		1.74	ug/kg dry	10.5	<1.74	115	60-140	3.84	40
4,4'-DDT	13.6		1.74	ug/kg dry	10.5	<1.74	130	60-140	7.12	40
Aldrin	15.8	J1	1.74	ug/kg dry	10.5	<1.74	151	60-140	13.4	40
alpha-BHC (alpha-Hexachlorocyclohexane)	15.7	J1	1.74	ug/kg dry	10.5	<1.74	150	60-140	10.7	40
beta-BHC (beta-Hexachlorocyclohexane)	15.7	J1	1.74	ug/kg dry	10.5	<1.74	150	60-140	4.31	40
Chlordane (Total)	57.0		1.74	ug/kg dry	41.8	<1.74	136	60-140	5.14	40
cis-Chlordane (alpha-Chlordane)	13.1		1.74	ug/kg dry	10.5	<1.74	126	60-140	8.04	40
delta-BHC	14.6		1.74	ug/kg dry	10.5	<1.74	140	60-140	6.16	40
Dieldrin	13.7		1.74	ug/kg dry	10.5	<1.74	131	60-140	2.99	40
Endosulfan I	11.5		1.74	ug/kg dry	10.5	<1.74	110	60-140	3.51	40
Endosulfan II	11.3		1.74	ug/kg dry	10.5	<1.74	108	60-140	4.68	40
Endosulfan sulfate	13.0		1.74	ug/kg dry	10.5	<1.74	124	60-140	1.50	40
Endrin	18.1	J1	1.74	ug/kg dry	10.5	<1.74	173	60-140	2.26	40
Endrin aldehyde	11.9		1.74	ug/kg dry	10.5	<1.74	114	60-140	8.02	40
Endrin ketone	11.1		1.74	ug/kg dry	10.5	<1.74	106	60-140	6.87	40
gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	15.7	J1	1.74	ug/kg dry	10.5	<1.74	150	60-140	5.72	40
gamma-Chlordane	14.4		1.74	ug/kg dry	10.5	<1.74	137	60-140	6.33	40
Heptachlor	15.0	J1	1.74	ug/kg dry	10.5	<1.74	144	60-140	7.87	40
Heptachlor epoxide	14.5		1.74	ug/kg dry	10.5	<1.74	139	60-140	1.22	40

Surrogate: 2,4,5,6			11.2	ug/kg dry	10.5		107	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			12.1	ug/kg dry	10.5		116	60-140		

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Quality Control
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Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE3058 - SW-3570										
Blank (BHE3058-BLK1)										
Prepared: 5/17/2024 Analyzed: 5/21/2024										
PCBs, Total	<0.600	U	0.600	ug/kg wet						
Surrogate: 2,4,5,6		S	0.289	ug/kg wet	0.600		48.2	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.355	ug/kg wet	0.600		59.2	60-140		
LCS (BHE3058-BS1)										
Prepared: 5/17/2024 Analyzed: 5/21/2024										
Aroclor-1016 (PCB-1016)	4.40		0.600	ug/kg wet	6.00		73.4	60-140		
Aroclor-1260 (PCB-1260)	3.73		0.600	ug/kg wet	6.00		62.2	60-140		
PCBs, Total	4.07		0.600	ug/kg wet	6.00		67.8	60-140		
Surrogate: 2,4,5,6		S	0.260	ug/kg wet	0.600		43.3	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.351	ug/kg wet	0.600		58.6	60-140		
LCS Dup (BHE3058-BSD1)										
Prepared: 5/17/2024 Analyzed: 5/21/2024										
Aroclor-1016 (PCB-1016)	4.49		0.600	ug/kg wet	6.00		74.8	60-140	1.88	40
Aroclor-1260 (PCB-1260)	3.74		0.600	ug/kg wet	6.00		62.3	60-140	0.202	40
PCBs, Total	4.11		0.600	ug/kg wet	6.00		68.6	60-140	1.12	40
Surrogate: 2,4,5,6		S	0.256	ug/kg wet	0.600		42.7	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.342	ug/kg wet	0.600		57.0	60-140		
MRL Check (BHE3058-MRL1)										
Prepared: 5/17/2024 Analyzed: 5/21/2024										
Aroclor-1016 (PCB-1016)	0.767		0.600	ug/kg wet	0.600		128	50-150		
Aroclor-1221 (PCB-1221)	<0.600	U	0.600	ug/kg wet				50-150		
Aroclor-1232 (PCB-1232)	<0.600	U	0.600	ug/kg wet				50-150		
Aroclor-1242 (PCB-1242)	<0.600	U	0.600	ug/kg wet				50-150		
Aroclor-1248 (PCB-1248)	<0.600	U	0.600	ug/kg wet				50-150		
Aroclor-1254 (PCB-1254)	<0.600	U	0.600	ug/kg wet				50-150		
Aroclor-1260 (PCB-1260)	0.660		0.600	ug/kg wet	0.600		110	50-150		
PCBs, Total	0.714		0.600	ug/kg wet	0.600		119	50-150		
Surrogate: 2,4,5,6		S	0.222	ug/kg wet	0.600		37.1	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.316	ug/kg wet	0.600		52.7	60-140		



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Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE3058 - SW-3570 (Continued)

Matrix Spike (BHE3058-MS1)

Source: 24D3569-07RE1

Prepared: 5/17/2024 Analyzed: 5/21/2024

Aroclor-1016 (PCB-1016)	9.34		0.964	ug/kg dry	9.64	<0.964	96.8	60-140		
Aroclor-1260 (PCB-1260)	5.91		0.964	ug/kg dry	9.64	<0.964	61.3	60-140		
PCBs, Total	7.62		0.964	ug/kg dry	9.64	<0.964	79.1	60-140		
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<i>Surrogate: 2,4,5,6</i>			0.681	ug/kg dry	0.964		70.7	60-140		
<i>Tetrachloro-m-xylene-surr</i>										
<i>Surrogate: Decachlorobiphenyl-surr</i>	S		0.505	ug/kg dry	0.964		52.3	60-140		

Matrix Spike Dup (BHE3058-MSD1)

Source: 24D3569-07RE1

Prepared: 5/17/2024 Analyzed: 5/21/2024

Aroclor-1016 (PCB-1016)	9.03		0.964	ug/kg dry	9.64	<0.964	93.6	60-140	3.40	40
Aroclor-1260 (PCB-1260)	5.87		0.964	ug/kg dry	9.64	<0.964	60.9	60-140	0.659	40
PCBs, Total	7.45		0.964	ug/kg dry	9.64	<0.964	77.2	60-140	2.33	40
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<i>Surrogate: 2,4,5,6</i>			0.635	ug/kg dry	0.964		65.9	60-140		
<i>Tetrachloro-m-xylene-surr</i>										
<i>Surrogate: Decachlorobiphenyl-surr</i>			0.608	ug/kg dry	0.964		63.1	60-140		



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Quality Control
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Metals, Total

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHD4351 - EPA 245.1										
Blank (BHD4351-BLK1)										
					Prepared & Analyzed: 4/29/2024					
Mercury	<0.200	U	0.200	ug/L						
LCS (BHD4351-BS1)										
					Prepared & Analyzed: 4/29/2024					
Mercury	4.67		0.200	ug/L	5.00		93.3	85-115		
Duplicate (BHD4351-DUP1)										
			Source: 24D0381-01			Prepared & Analyzed: 4/29/2024				
Mercury	<0.200	U	0.200	ug/L	<0.200					20
MDL Check (BHD4351-MRL1)										
					Prepared & Analyzed: 4/29/2024					
Mercury	<0.200	U	0.200	ug/L	0.100					
Matrix Spike (BHD4351-MS1)										
			Source: 24D0381-01			Prepared & Analyzed: 4/29/2024				
Mercury	4.66		0.200	ug/L	5.00	<0.200	93.1	70-130		
Batch: BHD5082 - SW-7471										
MDL Check (BHD5082-MRL1)										
					Prepared & Analyzed: 5/1/2024					
Mercury	0.0108	J	0.0198	mg/kg wet	0.00992	108				
Matrix Spike (BHD5082-MS1)										
			Source: 24C0735-01			Prepared & Analyzed: 5/1/2024				
Mercury	0.449		0.0290	mg/kg dry	0.362	0.125	89.7	80-120		
Matrix Spike Dup (BHD5082-MSD1)										
			Source: 24C0735-01			Prepared & Analyzed: 5/1/2024				
Mercury	0.468		0.0290	mg/kg dry	0.362	0.125	94.9	80-120	4.06	20
Batch: BHE1933 - EPA 200.8 Solid										
Blank (BHE1933-BLK1)										
					Prepared: 5/13/2024 Analyzed: 5/16/2024					
Antimony	<0.100	U	0.100	mg/kg wet						
Arsenic	<0.0500	U	0.0500	mg/kg wet						
Cadmium	<0.100	U	0.100	mg/kg wet						
Chromium	<0.300	U	0.300	mg/kg wet						
Copper	0.0267	J	0.100	mg/kg wet						
Lead	<0.0500	U	0.0500	mg/kg wet						
Nickel	<0.100	U	0.100	mg/kg wet						
Silver	<0.0500	U	0.0500	mg/kg wet						

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Quality Control
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Metals, Total (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE1933 - EPA 200.8 Solid (Continued)

Blank (BHE1933-BLK2)

Prepared: 5/13/2024 Analyzed: 5/17/2024

Zinc <0.200 U 0.200 mg/kg wet

LCS (BHE1933-BS1)

Prepared: 5/13/2024 Analyzed: 5/16/2024

Antimony	9.72		0.100	mg/kg wet	10.0		97.2	85-115		
Arsenic	4.88		0.0500	mg/kg wet	5.00		97.6	85-115		
Cadmium	10.1		0.100	mg/kg wet	10.0		101	85-115		
Chromium	29.9		0.300	mg/kg wet	30.0		99.7	85-115		
Copper	10.5		0.100	mg/kg wet	10.0		105	85-115		
Lead	5.06		0.0500	mg/kg wet	5.00		101	85-115		
Nickel	9.99		0.100	mg/kg wet	10.0		99.9	85-115		
Silver	5.29		0.0500	mg/kg wet	5.00		106	85-115		

LCS (BHE1933-BS2)

Prepared: 5/13/2024 Analyzed: 5/17/2024

Zinc 20.8 0.200 mg/kg wet 20.0 104 85-115

Duplicate (BHE1933-DUP1)

Source: 24D4281-06

Prepared: 5/13/2024 Analyzed: 5/16/2024

Antimony	<0.0973	U	0.0973	mg/kg dry		<0.0973				20
Arsenic	3.76		0.0486	mg/kg dry		4.20			10.9	20
Cadmium	0.310	J1	0.0973	mg/kg dry		0.405			26.7	20
Chromium	15.5		0.291	mg/kg dry		16.3			4.84	20
Copper	27.3		0.487	mg/kg dry		30.1			9.54	20
Lead	25.3		0.243	mg/kg dry		24.7			2.39	20
Nickel	11.4		0.0973	mg/kg dry		12.5			8.82	20
Silver	0.114		0.0486	mg/kg dry		0.117			2.29	20

Duplicate (BHE1933-DUP2)

Source: 24D4281-06

Prepared: 5/13/2024 Analyzed: 5/17/2024

Zinc 130 1.94 mg/kg dry 144 10.2 20



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Quality Control
(Continued)

Metals, Total (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE1933 - EPA 200.8 Solid (Continued)

MDL Check (BHE1933-MRL1)

Prepared: 5/13/2024 Analyzed: 5/16/2024

Antimony	0.0533	J	0.100	mg/kg wet	0.0500					107
Arsenic	0.00510	J	0.0500	mg/kg wet	0.00500					102
Cadmium	0.00550	J	0.100	mg/kg wet	0.00500					110
Chromium	0.0137	J	0.300	mg/kg wet	0.0150					91.3
Copper	0.0248	J	0.100	mg/kg wet	0.0100					248
Lead	0.00490	J	0.0500	mg/kg wet	0.00500					98.0
Nickel	0.00530	J	0.100	mg/kg wet	0.00500					106
Silver	0.00300	J	0.0500	mg/kg wet	0.00250					120

MDL Check (BHE1933-MRL2)

Prepared: 5/13/2024 Analyzed: 5/17/2024

Zinc	0.151	J	0.200	mg/kg wet	0.100					151
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Matrix Spike (BHE1933-MS1)

Source: 24D4281-06

Prepared: 5/13/2024 Analyzed: 5/16/2024

Antimony	2.07	J1	0.0980	mg/kg dry	9.78	<0.0980	21.2	75-125
Arsenic	7.87		0.0489	mg/kg dry	4.89	4.20	75.2	75-125
Cadmium	9.83		0.0980	mg/kg dry	9.78	0.405	96.4	75-125
Chromium	39.7		0.293	mg/kg dry	29.3	16.3	80.0	75-125
Copper	33.4	J1	0.490	mg/kg dry	9.78	30.1	34.2	75-125
Lead	25.8	J1	0.244	mg/kg dry	4.89	24.7	21.7	75-125
Nickel	21.6		0.490	mg/kg dry	9.78	12.5	93.6	75-125
Silver	5.02		0.0489	mg/kg dry	4.89	0.117	100	75-125

Matrix Spike (BHE1933-MS2)

Source: 24D4281-06

Prepared: 5/13/2024 Analyzed: 5/17/2024

Zinc	134	J1	1.95	mg/kg dry	19.6	144	NR	75-125
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Quality Control
(Continued)

Metals, Dissolved

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE1117 - EPA 200.8 Dissolved

Blank (BHE1117-BLK1)

Prepared: 5/8/2024 Analyzed: 5/17/2024

Arsenic	<0.500	U	0.500	ug/L						
Cadmium	<1.00	U	1.00	ug/L						
Copper	0.259	J	1.00	ug/L						
Lead	<0.500	U	0.500	ug/L						
Nickel	0.0550	J	1.00	ug/L						
Silver	<0.500	U	0.500	ug/L						
Zinc	0.614	J	2.00	ug/L						

Blank (BHE1117-BLK2)

Prepared: 5/8/2024 Analyzed: 5/20/2024

Chromium	<3.00	U	3.00	ug/L						
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Blank (BHE1117-BLK3)

Prepared: 5/8/2024 Analyzed: 5/20/2024

Antimony	<1.00	U	1.00	ug/L						
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LCS (BHE1117-BS1)

Prepared: 5/8/2024 Analyzed: 5/17/2024

Arsenic	50.0		0.500	ug/L	50.0		100	85-115		
Cadmium	99.2		1.00	ug/L	100		99.2	85-115		
Copper	106		1.00	ug/L	100		106	85-115		
Lead	50.4		0.500	ug/L	50.0		101	85-115		
Nickel	100		1.00	ug/L	100		100	85-115		
Silver	47.0		0.500	ug/L	50.0		93.9	85-115		
Zinc	200		2.00	ug/L	200		99.8	85-115		

LCS (BHE1117-BS2)

Prepared: 5/8/2024 Analyzed: 5/20/2024

Chromium	317		3.00	ug/L	300		106	85-115		
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LCS (BHE1117-BS3)

Prepared: 5/8/2024 Analyzed: 5/20/2024

Antimony	100		1.00	ug/L	100		100	85-115		
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Quality Control
(Continued)

Metals, Dissolved (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE1117 - EPA 200.8 Dissolved (Continued)

Duplicate (BHE1117-DUP1)

Source: 24D3569-02

Prepared: 5/8/2024 Analyzed: 5/17/2024

Arsenic	1.86	J	2.50	ug/L		1.67			10.5	20
Cadmium	<5.00	U	5.00	ug/L		<5.00				20
Copper	1.25	J	5.00	ug/L		1.14			9.27	20
Lead	<2.50	U	2.50	ug/L		<2.50				20
Nickel	1.62	J	5.00	ug/L		1.51			7.47	20
Silver	<2.50	U	2.50	ug/L		<2.50				20
Zinc	2.63	J	10.0	ug/L		2.64			0.721	20

Duplicate (BHE1117-DUP2)

Source: 24D3569-02

Prepared: 5/8/2024 Analyzed: 5/20/2024

Chromium	<15.0	U	15.0	ug/L		<15.0				20
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Duplicate (BHE1117-DUP3)

Source: 24D3569-02

Prepared: 5/8/2024 Analyzed: 5/20/2024

Antimony	<5.00	U	5.00	ug/L		<5.00				20
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MDL Check (BHE1117-MRL1)

Prepared: 5/8/2024 Analyzed: 5/17/2024

Arsenic	0.118	J	0.500	ug/L	0.100				118	
Cadmium	0.0560	J	1.00	ug/L	0.0500				112	
Copper	0.368	J	1.00	ug/L	0.200				184	
Lead	0.102	J	0.500	ug/L	0.100				102	
Nickel	0.0910	J	1.00	ug/L	0.0500				182	
Silver	0.0340	J	0.500	ug/L	0.0300				113	
Zinc	0.589	J	2.00	ug/L	0.200				294	

MDL Check (BHE1117-MRL2)

Prepared: 5/8/2024 Analyzed: 5/20/2024

Chromium	0.282	J	3.00	ug/L	0.0800				352	
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MDL Check (BHE1117-MRL3)

Prepared: 5/8/2024 Analyzed: 5/20/2024

Antimony	0.243	J	1.00	ug/L	0.200				122	
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Quality Control
(Continued)

Metals, Dissolved (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE1117 - EPA 200.8 Dissolved (Continued)

Matrix Spike (BHE1117-MS1)

Source: 24D3569-02

Prepared: 5/8/2024 Analyzed: 5/17/2024

Arsenic	51.0		2.50	ug/L	50.0	1.67	98.6	75-125		
Cadmium	93.7		5.00	ug/L	100	<5.00	93.7	75-125		
Copper	96.5		5.00	ug/L	100	1.14	95.4	75-125		
Lead	44.2		2.50	ug/L	50.0	<2.50	88.4	75-125		
Nickel	94.7		5.00	ug/L	100	1.51	93.2	75-125		
Silver	43.1		2.50	ug/L	50.0	<2.50	86.1	75-125		
Zinc	185		10.0	ug/L	200	2.64	91.4	75-125		

Matrix Spike (BHE1117-MS2)

Source: 24D3569-02

Prepared: 5/8/2024 Analyzed: 5/20/2024

Chromium	316		15.0	ug/L	300	<15.0	105	75-125		
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Matrix Spike (BHE1117-MS3)

Source: 24D3569-02

Prepared: 5/8/2024 Analyzed: 5/20/2024

Antimony	94.4		5.00	ug/L	100	<5.00	94.4	75-125		
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Quality Control
(Continued)

General Chemistry

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHD4550 - Percent Solids

Blank (BHD4550-BLK1)		Prepared: 4/26/2024 Analyzed: 4/30/2024								
% Solids	<0.100	U	0.100	%						
Duplicate (BHD4550-DUP1)		Source: 24D5752-01 Prepared: 4/29/2024 Analyzed: 4/30/2024								
% Solids	2.37		0.100	%		2.39			0.551	10
Duplicate (BHD4550-DUP2)		Source: 24D6026-01 Prepared: 4/29/2024 Analyzed: 4/30/2024								
% Solids	1.56		0.100	%		1.56			0.00829	20
Reference (BHD4550-SRM1)		Prepared: 4/26/2024 Analyzed: 4/30/2024								
% Solids	0.366		0.100	%	0.350		105	78.9-118		

Batch: BHD4758 - NH3-N SEAL-350.1

Matrix Spike (BHD4758-MS1)		Source: 24D1063-01 Prepared & Analyzed: 4/30/2024								
Ammonia as N	8.75	J1	2.50	mg/L	0.200	8.30	225	90-110		
Matrix Spike (BHD4758-MS2)		Source: 24D0754-02 Prepared & Analyzed: 4/30/2024								
Ammonia as N	0.222		0.0500	mg/L	0.200	0.0280	97.0	90-110		
Matrix Spike Dup (BHD4758-MSD1)		Source: 24D1063-01 Prepared & Analyzed: 4/30/2024								
Ammonia as N	8.45	J1	2.50	mg/L	0.200	8.30	75.0	90-110	3.49	20
Matrix Spike Dup (BHD4758-MSD2)		Source: 24D0754-02 Prepared & Analyzed: 4/30/2024								
Ammonia as N	0.225		0.0500	mg/L	0.200	0.0280	98.5	90-110	1.34	20

Batch: BHD4759 - NH3-N SEAL-350.1

Matrix Spike (BHD4759-MS1)		Source: 24D5416-02 Prepared & Analyzed: 4/30/2024								
Ammonia as N	0.255		0.0500	mg/L	0.200	0.0540	100	90-110		

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Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHD4759 - NH3-N SEAL-350.1 (Continued)										
Matrix Spike (BHD4759-MS2) Source: 24D0771-02										
Ammonia as N	0.318		0.0500	mg/L	0.200	0.118	100	90-110		
Matrix Spike Dup (BHD4759-MSD1) Source: 24D5416-02										
Ammonia as N	0.248		0.0500	mg/L	0.200	0.0540	97.0	90-110	2.78	20
Matrix Spike Dup (BHD4759-MSD2) Source: 24D0771-02										
Ammonia as N	0.316		0.0500	mg/L	0.200	0.118	99.0	90-110	0.631	20
Batch: BHD5091 - SM 5310 C										
ICC (BHD5091-BLK1) Source: 23L0161-01										
Total Organic Carbon (TOC)	<1.00	U	1.00	mg/L						
MRL Check (BHD5091-MRL1) Source: 23L0161-01										
Total Organic Carbon (TOC)	1.29		1.00	mg/L	1.00		129	50-150		
Matrix Spike (BHD5091-MS1) Source: 23L0161-01										
Total Organic Carbon (TOC)	75.5		1.00	mg/L	50.0	27.4	96.2	85-115		
Matrix Spike (BHD5091-MS2) Source: 24D5485-02										
Total Organic Carbon (TOC)	73.1		1.00	mg/L	50.0	25.5	95.2	85-115		
Matrix Spike Dup (BHD5091-MSD1) Source: 23L0161-01										
Total Organic Carbon (TOC)	75.3		1.00	mg/L	50.0	27.4	95.9	85-115	0.251	15
Matrix Spike Dup (BHD5091-MSD2) Source: 24D5485-02										
Total Organic Carbon (TOC)	72.5		1.00	mg/L	50.0	25.5	94.1	85-115	0.785	15

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Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0881 - SM 5310 C										
ICC (BHE0881-BLK1)										
Total Organic Carbon (TOC)	<1.00	U	1.00	mg/L	Prepared & Analyzed: 5/6/2024					
BHD5048-BLK1 (BHE0881-LBK1)										
Total Organic Carbon (TOC)	<1.00	U	1.00	mg/L	Prepared: 5/6/2024 Analyzed: 5/7/2024					
MRL Check (BHE0881-MRL1)										
Total Organic Carbon (TOC)	1.24		1.00	mg/L	1.00		124	50-150		
Matrix Spike (BHE0881-MS1)										
			Source: 23L0164-01			Prepared & Analyzed: 5/6/2024				
Total Organic Carbon (TOC)	75.6		1.00	mg/L	50.0	29.8	91.5	85-115		
Matrix Spike (BHE0881-MS2)										
			Source: 24E0086-01			Prepared: 5/6/2024 Analyzed: 5/7/2024				
Total Organic Carbon (TOC)	55.4		1.00	mg/L	50.0	6.09	98.7	85-115		
Matrix Spike Dup (BHE0881-MSD1)										
			Source: 23L0164-01			Prepared: 5/6/2024 Analyzed: 5/7/2024				
Total Organic Carbon (TOC)	76.7		1.00	mg/L	50.0	29.8	93.7	85-115	1.42	15
Matrix Spike Dup (BHE0881-MSD2)										
			Source: 24E0086-01			Prepared: 5/6/2024 Analyzed: 5/7/2024				
Total Organic Carbon (TOC)	56.4		1.00	mg/L	50.0	6.09	101	85-115	1.83	15
Batch: BHE1926 - TKN T										
Blank (BHE1926-BLK1)										
Ammonia as N	<9.96	U	9.96	mg/kg wet	Prepared & Analyzed: 5/13/2024					
LCS (BHE1926-BS1)										
Ammonia as N	91.4		9.98	mg/kg wet	99.8		91.6	85-115		



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Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE1926 - TKN T (Continued)										
Duplicate (BHE1926-DUP1)										
Ammonia as N	10700		924	mg/kg dry		8820			19.6	20
MRL Check (BHE1926-MRL1)										
Ammonia as N	8.66	J	9.98	mg/kg wet	9.98		86.8	50-150		
Matrix Spike (BHE1926-MS1)										
Ammonia as N	19700	J1	920	mg/kg dry	9200	8820	119	85-115		

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Quality Control
(Continued)

Elutriate Semivolatile Organic Compounds by GCMS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0409 - SW-3511

MB SV (BHE0409-BLK1)

Prepared: 5/2/2024 Analyzed: 5/13/2024

1,2,4-Trichlorobenzene	<0.562	U	0.562	ug/L						
1,2-Dichlorobenzene (o-Dichlorobenzene)	<0.562	U	0.562	ug/L						
1,3-Dichlorobenzene (m-Dichlorobenzene)	<0.562	U	0.562	ug/L						
1,4-Dichlorobenzene (p-Dichlorobenzene)	<0.562	U	0.562	ug/L						
2,4-Dichlorophenol	<1.12	U	1.12	ug/L						
2,4-Dimethylphenol	<1.12	U	1.12	ug/L						
2,4-Dinitrophenol	<4.50	U	4.50	ug/L						
Acenaphthene	<0.562	U	0.562	ug/L						
Acenaphthylene	<0.562	U	0.562	ug/L						
Anthracene	<0.562	U	0.562	ug/L						
Benzo(a)anthracene	<0.562	U	0.562	ug/L						
Benzo(a)pyrene	<0.562	U	0.562	ug/L						
Benzo(b)fluoranthene	<0.562	U	0.562	ug/L						
Benzo(g,h,i)perylene	<0.562	U	0.562	ug/L						
Benzo(k)fluoranthene	<0.562	U	0.562	ug/L						
Chrysene	<0.562	U	0.562	ug/L						
Dibenzo(a,h)anthracene	<0.562	U	0.562	ug/L						
Diethyl phthalate	0.462	J	0.562	ug/L						
Fluoranthene	<0.562	U	0.562	ug/L						
Fluorene	<0.562	U	0.562	ug/L						
Hexachlorobenzene	<0.562	U	0.562	ug/L						
Indeno(1,2,3-cd) pyrene	<0.562	U	0.562	ug/L						
Naphthalene	<0.562	U	0.562	ug/L						
Pentachlorophenol	<1.12	U	1.12	ug/L						
Phenanthrene	<0.562	U	0.562	ug/L						
Phenol, Total	0.655	J	1.12	ug/L						
Pyrene	<0.562	U	0.562	ug/L						
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Surrogate: 2-Fluorobiphenyl-surr			9.31	ug/L	10.0		93.1	54.6-148		
Surrogate: 2-Fluorophenol-surr			20.9	ug/L	20.0		105	55-152		
Surrogate: 2,4,6-Tribromophenol-surr			22.0	ug/L	20.0		110	52.4-136		
Surrogate: Nitrobenzene-d5-surr			9.48	ug/L	10.0		94.8	52-162		
Surrogate: Phenol-d5-surr			20.2	ug/L	20.0		101	58.7-152		
Surrogate: p-Terphenyl-d14-surr			10.5	ug/L	10.0		105	51.9-147		

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Quality Control
(Continued)

Elutriate Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0409 - SW-3511 (Continued)										
BS SV (BHE0409-BS1)										
					Prepared: 5/2/2024 Analyzed: 5/13/2024					
1,2,4-Trichlorobenzene	9.75		0.562	ug/L	10.0		97.5	60-140		
1,2-Dichlorobenzene (o-Dichlorobenzene)	9.56		0.562	ug/L	10.0		95.6	60-140		
1,3-Dichlorobenzene (m-Dichlorobenzene)	9.23		0.562	ug/L	10.0		92.3	60-140		
1,4-Dichlorobenzene (p-Dichlorobenzene)	9.59		0.562	ug/L	10.0		95.9	60-140		
2,4-Dichlorophenol	23.3		1.12	ug/L	20.0		117	60-140		
2,4-Dimethylphenol	22.9		1.12	ug/L	20.0		115	35.9-153		
2,4-Dinitrophenol	61.6		4.50	ug/L	50.0		123	60-140		
Acenaphthene	11.0		0.562	ug/L	10.0		110	60-140		
Acenaphthylene	10.5		0.562	ug/L	10.0		105	60-140		
Anthracene	11.3		0.562	ug/L	10.0		113	60-140		
Benzo(a)anthracene	11.6		0.562	ug/L	10.0		116	60-140		
Benzo(a)pyrene	11.5		0.562	ug/L	10.0		115	60-140		
Benzo(b)fluoranthene	11.7		0.562	ug/L	10.0		117	60-140		
Benzo(g,h,i)perylene	11.3		0.562	ug/L	10.0		113	60-140		
Benzo(k)fluoranthene	11.3		0.562	ug/L	10.0		113	60-140		
Chrysene	12.0		0.562	ug/L	10.0		120	60-140		
Dibenzo(a,h)anthracene	12.7		0.562	ug/L	10.0		127	60-140		
Diethyl phthalate	12.6		0.562	ug/L	10.0		126	60-140		
Fluoranthene	11.5		0.562	ug/L	10.0		115	60-140		
Fluorene	11.7		0.562	ug/L	10.0		117	60-140		
Hexachlorobenzene	10.7		0.562	ug/L	10.0		107	60-140		
Indeno(1,2,3-cd) pyrene	12.1		0.562	ug/L	10.0		121	60-140		
Naphthalene	10.7		0.562	ug/L	10.0		107	60-140		
Pentachlorophenol	25.0		1.12	ug/L	20.0		125	36.8-149		
Phenanthrene	11.2		0.562	ug/L	10.0		112	60-140		
Phenol, Total	21.9		1.12	ug/L	20.0		110	60-140		
Pyrene	11.5		0.562	ug/L	10.0		115	60-140		
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Surrogate: 2-Fluorobiphenyl-surr			10.3	ug/L	10.0		103	54.6-148		
Surrogate: 2-Fluorophenol-surr			22.6	ug/L	20.0		113	55-152		
Surrogate: 2,4,6-Tribromophenol-surr			23.0	ug/L	20.0		115	52.4-136		
Surrogate: Nitrobenzene-d5-surr			11.1	ug/L	10.0		111	52-162		
Surrogate: Phenol-d5-surr			23.4	ug/L	20.0		117	58.7-152		
Surrogate: p-Terphenyl-d14-surr			10.6	ug/L	10.0		106	51.9-147		

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Quality Control
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Elutriate Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0409 - SW-3511 (Continued)										
BSD SV (BHE0409-bsd1)										
					Prepared: 5/2/2024 Analyzed: 5/13/2024					
1,2,4-Trichlorobenzene	9.76		0.562	ug/L	10.0		97.6	60-140	0.0960	40
1,2-Dichlorobenzene (o-Dichlorobenzene)	9.19		0.562	ug/L	10.0		91.9	60-140	3.96	40
1,3-Dichlorobenzene (m-Dichlorobenzene)	8.93		0.562	ug/L	10.0		89.3	60-140	3.35	40
1,4-Dichlorobenzene (p-Dichlorobenzene)	9.28		0.562	ug/L	10.0		92.8	60-140	3.24	40
2,4-Dichlorophenol	22.9		1.12	ug/L	20.0		114	60-140	2.06	40
2,4-Dimethylphenol	22.7		1.12	ug/L	20.0		114	35.9-153	0.783	40
2,4-Dinitrophenol	72.8	J1	4.50	ug/L	50.0		146	60-140	16.7	40
Acenaphthene	10.5		0.562	ug/L	10.0		105	60-140	4.74	40
Acenaphthylene	10.1		0.562	ug/L	10.0		101	60-140	4.50	40
Anthracene	10.8		0.562	ug/L	10.0		108	60-140	3.93	40
Benzo(a)anthracene	11.3		0.562	ug/L	10.0		113	60-140	2.77	40
Benzo(a)pyrene	11.3		0.562	ug/L	10.0		113	60-140	1.92	40
Benzo(b)fluoranthene	11.7		0.562	ug/L	10.0		117	60-140	0.381	40
Benzo(g,h,i)perylene	11.6		0.562	ug/L	10.0		116	60-140	1.90	40
Benzo(k)fluoranthene	11.3		0.562	ug/L	10.0		113	60-140	0.110	40
Chrysene	11.1		0.562	ug/L	10.0		111	60-140	7.64	40
Dibenzo(a,h)anthracene	13.1		0.562	ug/L	10.0		131	60-140	3.62	40
Diethyl phthalate	11.1		0.562	ug/L	10.0		111	60-140	12.8	40
Fluoranthene	11.2		0.562	ug/L	10.0		112	60-140	2.96	40
Fluorene	10.7		0.562	ug/L	10.0		107	60-140	8.63	40
Hexachlorobenzene	10.0		0.562	ug/L	10.0		100	60-140	6.79	40
Indeno(1,2,3-cd) pyrene	12.4		0.562	ug/L	10.0		124	60-140	2.39	40
Naphthalene	10.2		0.562	ug/L	10.0		102	60-140	5.11	40
Pentachlorophenol	24.6		1.12	ug/L	20.0		123	36.8-149	1.48	40
Phenanthrene	10.9		0.562	ug/L	10.0		109	60-140	2.74	40
Phenol, Total	22.0		1.12	ug/L	20.0		110	60-140	0.377	40
Pyrene	11.2		0.562	ug/L	10.0		112	60-140	3.31	40
<i>Surrogate: 2-Fluorobiphenyl-surr</i>			<i>10.2</i>	<i>ug/L</i>	<i>10.0</i>		<i>102</i>	<i>54.6-148</i>		
<i>Surrogate: 2-Fluorophenol-surr</i>			<i>22.5</i>	<i>ug/L</i>	<i>20.0</i>		<i>113</i>	<i>55-152</i>		
<i>Surrogate: 2,4,6-Tribromophenol-surr</i>			<i>22.8</i>	<i>ug/L</i>	<i>20.0</i>		<i>114</i>	<i>52.4-136</i>		
<i>Surrogate: Nitrobenzene-d5-surr</i>			<i>11.3</i>	<i>ug/L</i>	<i>10.0</i>		<i>113</i>	<i>52-162</i>		
<i>Surrogate: Phenol-d5-surr</i>			<i>24.0</i>	<i>ug/L</i>	<i>20.0</i>		<i>120</i>	<i>58.7-152</i>		
<i>Surrogate: p-Terphenyl-d14-surr</i>			<i>9.93</i>	<i>ug/L</i>	<i>10.0</i>		<i>99.3</i>	<i>51.9-147</i>		

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Quality Control
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Elutriate Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0409 - SW-3511 (Continued)

BHD5048-BLK1 (BHE0409-LBK2)

Prepared: 5/2/2024 Analyzed: 5/14/2024

1,2,4-Trichlorobenzene	<0.562	U	0.562	ug/L						
1,2-Dichlorobenzene (o-Dichlorobenzene)	<0.562	U	0.562	ug/L						
1,3-Dichlorobenzene (m-Dichlorobenzene)	<0.562	U	0.562	ug/L						
1,4-Dichlorobenzene (p-Dichlorobenzene)	<0.562	U	0.562	ug/L						
2,4-Dichlorophenol	<1.12	U	1.12	ug/L						
2,4-Dimethylphenol	<1.12	U	1.12	ug/L						
2,4-Dinitrophenol	<4.50	U	4.50	ug/L						
Acenaphthene	<0.562	U	0.562	ug/L						
Acenaphthylene	<0.562	U	0.562	ug/L						
Anthracene	<0.562	U	0.562	ug/L						
Benzo(a)anthracene	<0.562	U	0.562	ug/L						
Benzo(a)pyrene	<0.562	U	0.562	ug/L						
Benzo(b)fluoranthene	<0.562	U	0.562	ug/L						
Benzo(g,h,i)perylene	<0.562	U	0.562	ug/L						
Benzo(k)fluoranthene	<0.562	U	0.562	ug/L						
Chrysene	<0.562	U	0.562	ug/L						
Dibenzo(a,h)anthracene	<0.562	U	0.562	ug/L						
Diethyl phthalate	0.688		0.562	ug/L						
Fluoranthene	<0.562	U	0.562	ug/L						
Fluorene	<0.562	U	0.562	ug/L						
Hexachlorobenzene	<0.562	U	0.562	ug/L						
Indeno(1,2,3-cd) pyrene	<0.562	U	0.562	ug/L						
Naphthalene	<0.562	U	0.562	ug/L						
Pentachlorophenol	<1.12	U	1.12	ug/L						
Phenanthrene	<0.562	U	0.562	ug/L						
Phenol, Total	3.72		1.12	ug/L						
Pyrene	<0.562	U	0.562	ug/L						
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Surrogate: 2-Fluorobiphenyl-surr			10.4	ug/L	10.0		104	54.6-148		
Surrogate: 2-Fluorophenol-surr			23.4	ug/L	20.0		117	55-152		
Surrogate: 2,4,6-Tribromophenol-surr			24.6	ug/L	20.0		123	52.4-136		
Surrogate: Nitrobenzene-d5-surr			12.2	ug/L	10.0		122	52-162		
Surrogate: Phenol-d5-surr			24.2	ug/L	20.0		121	58.7-152		
Surrogate: p-Terphenyl-d14-surr			8.84	ug/L	10.0		88.4	51.9-147		

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Quality Control
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Elutriate Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0409 - SW-3511 (Continued)										
MDL SV (BHE0409-MRL1)										
					Prepared: 5/2/2024 Analyzed: 5/13/2024					
1,2,4-Trichlorobenzene	0.612		0.562	ug/L	0.500			122		
1,2-Dichlorobenzene (o-Dichlorobenzene)	0.622		0.562	ug/L	0.500			124		
1,3-Dichlorobenzene (m-Dichlorobenzene)	0.618		0.562	ug/L	0.500			124		
1,4-Dichlorobenzene (p-Dichlorobenzene)	0.616		0.562	ug/L	0.500			123		
2,4-Dichlorophenol	1.37		1.12	ug/L	1.00			137		
2,4-Dimethylphenol	1.25		1.12	ug/L	1.00			125		
2,4-Dinitrophenol	2.97	J	4.50	ug/L	2.50			119		
Acenaphthene	0.659		0.562	ug/L	0.500			132		
Acenaphthylene	0.660		0.562	ug/L	0.500			132		
Anthracene	0.641		0.562	ug/L	0.500			128		
Benzo(a)anthracene	0.682		0.562	ug/L	0.500			136		
Benzo(a)pyrene	0.638		0.562	ug/L	0.500			128		
Benzo(b)fluoranthene	0.687		0.562	ug/L	0.500			137		
Benzo(g,h,i)perylene	0.642		0.562	ug/L	0.500			128		
Benzo(k)fluoranthene	0.557	J	0.562	ug/L	0.500			111		
Chrysene	0.693		0.562	ug/L	0.500			139		
Dibenzo(a,h)anthracene	0.652		0.562	ug/L	0.500			130		
Diethyl phthalate	0.846		0.562	ug/L	0.500			169		
Fluoranthene	0.637		0.562	ug/L	0.500			127		
Fluorene	0.699		0.562	ug/L	0.500			140		
Hexachlorobenzene	0.605		0.562	ug/L	0.500			121		
Indeno(1,2,3-cd) pyrene	0.637		0.562	ug/L	0.500			127		
Naphthalene	0.677		0.562	ug/L	0.500			135		
Pentachlorophenol	1.41		1.12	ug/L	1.00			141		
Phenanthrene	0.673		0.562	ug/L	0.500			135		
Phenol, Total	1.79		1.12	ug/L	1.00			179		
Pyrene	0.648		0.562	ug/L	0.500			130		
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Surrogate: 2-Fluorobiphenyl-surr			10.6	ug/L	10.0			106		54.6-148
Surrogate: 2-Fluorophenol-surr			23.8	ug/L	20.0			119		55-152
Surrogate: 2,4,6-Tribromophenol-surr			25.0	ug/L	20.0			125		52.4-136
Surrogate: Nitrobenzene-d5-surr			11.2	ug/L	10.0			112		52-162
Surrogate: Phenol-d5-surr			23.7	ug/L	20.0			119		58.7-152
Surrogate: p-Terphenyl-d14-surr			11.9	ug/L	10.0			119		51.9-147

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Elutriate Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0409 - SW-3511 (Continued)

24D3569-03 MS (BHE0409-MS1)

Source: 24D3569-03

Prepared: 5/2/2024 Analyzed: 5/14/2024

1,2,4-Trichlorobenzene	9.69		0.556	ug/L	9.89	<0.556	98.0	35.3-142		
1,2-Dichlorobenzene (o-Dichlorobenzene)	9.07		0.556	ug/L	9.89	<0.556	91.7	31.4-142		
1,3-Dichlorobenzene (m-Dichlorobenzene)	8.77		0.556	ug/L	9.89	<0.556	88.7	30.5-135		
1,4-Dichlorobenzene (p-Dichlorobenzene)	9.10		0.556	ug/L	9.89	<0.556	92.0	37.2-133		
2,4-Dichlorophenol	23.3		1.11	ug/L	19.8	<1.11	118	42.7-158		
2,4-Dimethylphenol	22.3		1.11	ug/L	19.8	<1.11	113	38.4-170		
2,4-Dinitrophenol	74.5	J1	4.45	ug/L	49.4	<4.45	151	60-140		
Acenaphthene	10.2		0.556	ug/L	9.89	<0.556	103	47.3-149		
Acenaphthylene	9.90		0.556	ug/L	9.89	<0.556	100	56.5-173		
Anthracene	10.4		0.556	ug/L	9.89	<0.556	105	49.7-160		
Benzo(a)anthracene	10.5		0.556	ug/L	9.89	<0.556	106	41.7-151		
Benzo(a)pyrene	9.94		0.556	ug/L	9.89	<0.556	100	45.4-133		
Benzo(b)fluoranthene	10.1		0.556	ug/L	9.89	<0.556	103	36.9-152		
Benzo(g,h,i)perylene	9.66		0.556	ug/L	9.89	<0.556	97.7	37.9-152		
Benzo(k)fluoranthene	9.78		0.556	ug/L	9.89	<0.556	98.9	31.6-158		
Chrysene	10.4		0.556	ug/L	9.89	<0.556	105	51-147		
Dibenzo(a,h)anthracene	10.6		0.556	ug/L	9.89	<0.556	107	27.5-156		
Diethyl phthalate	11.6		0.556	ug/L	9.89	0.644	110	53.4-146		
Fluoranthene	10.4		0.556	ug/L	9.89	<0.556	105	45.3-156		
Fluorene	10.7		0.556	ug/L	9.89	<0.556	108	56.3-145		
Hexachlorobenzene	9.22		0.556	ug/L	9.89	<0.556	93.2	56.1-137		
Indeno(1,2,3-cd) pyrene	10.1		0.556	ug/L	9.89	<0.556	102	33.4-153		
Naphthalene	10.1		0.556	ug/L	9.89	<0.556	102	45.1-153		
Pentachlorophenol	24.8		1.11	ug/L	19.8	<1.11	125	42.2-151		
Phenanthrene	10.4		0.556	ug/L	9.89	<0.556	105	45.3-165		
Phenol, Total	21.4		1.11	ug/L	19.8	2.52	95.7	39.8-164		
Pyrene	10.3		0.556	ug/L	9.89	<0.556	104	46.3-149		

Surrogate: 2-Fluorobiphenyl-surr			9.75	ug/L	9.89		98.6	54.6-148		
Surrogate: 2-Fluorophenol-surr			22.4	ug/L	19.8		113	55-152		
Surrogate: 2,4,6-Tribromophenol-surr			22.5	ug/L	19.8		114	52.4-136		
Surrogate: Nitrobenzene-d5-surr			11.3	ug/L	9.89		114	52-162		
Surrogate: Phenol-d5-surr			23.3	ug/L	19.8		118	58.7-152		
Surrogate: p-Terphenyl-d14-surr			8.85	ug/L	9.89		89.5	51.9-147		

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Elutriate Semivolatile Organic Compounds by GCMS (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0409 - SW-3511 (Continued)										
24D3569-03 MSD (BHE0409-MSD1)			Source: 24D3569-03			Prepared: 5/2/2024 Analyzed: 5/14/2024				
1,2,4-Trichlorobenzene	9.87		0.558	ug/L	9.92	<0.558	99.5	35.3-142	1.89	40
1,2-Dichlorobenzene (o-Dichlorobenzene)	9.24		0.558	ug/L	9.92	<0.558	93.1	31.4-142	1.83	40
1,3-Dichlorobenzene (m-Dichlorobenzene)	8.49		0.558	ug/L	9.92	<0.558	85.6	30.5-135	3.22	40
1,4-Dichlorobenzene (p-Dichlorobenzene)	9.37		0.558	ug/L	9.92	<0.558	94.4	37.2-133	2.92	40
2,4-Dichlorophenol	24.0		1.12	ug/L	19.8	<1.12	121	42.7-158	3.12	40
2,4-Dimethylphenol	24.2		1.12	ug/L	19.8	<1.12	122	38.4-170	8.00	40
2,4-Dinitrophenol	76.9	J1	4.46	ug/L	49.6	<4.46	155	60-140	3.23	40
Acenaphthene	10.3		0.558	ug/L	9.92	<0.558	104	47.3-149	0.963	40
Acenaphthylene	9.89		0.558	ug/L	9.92	<0.558	99.6	56.5-173	0.160	40
Anthracene	10.3		0.558	ug/L	9.92	<0.558	104	49.7-160	0.930	40
Benzo(a)anthracene	10.2		0.558	ug/L	9.92	<0.558	103	41.7-151	3.06	40
Benzo(a)pyrene	9.44		0.558	ug/L	9.92	<0.558	95.2	45.4-133	5.11	40
Benzo(b)fluoranthene	9.69		0.558	ug/L	9.92	<0.558	97.7	36.9-152	4.51	40
Benzo(g,h,i)perylene	8.76		0.558	ug/L	9.92	<0.558	88.3	37.9-152	9.74	40
Benzo(k)fluoranthene	9.28		0.558	ug/L	9.92	<0.558	93.5	31.6-158	5.23	40
Chrysene	10.1		0.558	ug/L	9.92	<0.558	102	51-147	2.69	40
Dibenzo(a,h)anthracene	9.79		0.558	ug/L	9.92	<0.558	98.6	27.5-156	8.11	40
Diethyl phthalate	11.8		0.558	ug/L	9.92	0.644	113	53.4-146	2.18	40
Fluoranthene	10.2		0.558	ug/L	9.92	<0.558	103	45.3-156	1.27	40
Fluorene	10.7		0.558	ug/L	9.92	<0.558	108	56.3-145	0.227	40
Hexachlorobenzene	9.01		0.558	ug/L	9.92	<0.558	90.8	56.1-137	2.30	40
Indeno(1,2,3-cd) pyrene	9.37		0.558	ug/L	9.92	<0.558	94.4	33.4-153	7.52	40
Naphthalene	10.3		0.558	ug/L	9.92	<0.558	103	45.1-153	1.57	40
Pentachlorophenol	24.8		1.12	ug/L	19.8	<1.12	125	42.2-151	0.263	40
Phenanthrene	10.3		0.558	ug/L	9.92	<0.558	104	45.3-165	0.778	40
Phenol, Total	22.0		1.12	ug/L	19.8	2.52	98.2	39.8-164	2.63	40
Pyrene	10.2		0.558	ug/L	9.92	<0.558	102	46.3-149	1.03	40
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Surrogate: 2-Fluorobiphenyl-surr			9.76	ug/L	9.92		98.4	54.6-148		
Surrogate: 2-Fluorophenol-surr			22.9	ug/L	19.8		115	55-152		
Surrogate: 2,4,6-Tribromophenol-surr			22.4	ug/L	19.8		113	52.4-136		
Surrogate: Nitrobenzene-d5-surr			11.5	ug/L	9.92		116	52-162		
Surrogate: Phenol-d5-surr			24.0	ug/L	19.8		121	58.7-152		
Surrogate: p-Terphenyl-d14-surr			8.32	ug/L	9.92		83.9	51.9-147		

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Quality Control
(Continued)

Elutriate Organics by GC

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0407 - SW-3511

Blank (BHE0407-BLK1)

Prepared: 5/2/2024 Analyzed: 5/20/2024

Toxaphene (Chlorinated Camphene)	<0.300	U	0.300	ug/L						
Surrogate: 2,4,5,6			0.134	ug/L	0.120		112	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.148	ug/L	0.120		123	60-140		

Blank (BHE0407-BLK2)

Prepared: 5/2/2024 Analyzed: 5/20/2024

4,4'-DDD	<0.00600	U	0.00600	ug/L						
4,4'-DDE	<0.00600	U	0.00600	ug/L						
4,4'-DDT	<0.00600	U	0.00600	ug/L						
Aldrin	<0.00600	U	0.00600	ug/L						
alpha-BHC	<0.00600	U	0.00600	ug/L						
(alpha-Hexachlorocyclohexane)										
beta-BHC	<0.00600	U	0.00600	ug/L						
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	<0.00600	U	0.00600	ug/L						
cis-Chlordane (alpha-Chlordane)	<0.00600	U	0.00600	ug/L						
delta-BHC	<0.00600	U	0.00600	ug/L						
Dieldrin	<0.00600	U	0.00600	ug/L						
Endosulfan I	<0.00600	U	0.00600	ug/L						
Endosulfan II	<0.00600	U	0.00600	ug/L						
Endosulfan sulfate	<0.00600	U	0.00600	ug/L						
Endrin	<0.00600	U	0.00600	ug/L						
Endrin aldehyde	<0.00600	U	0.00600	ug/L						
Endrin ketone	<0.00600	U	0.00600	ug/L						
gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	<0.00600	U	0.00600	ug/L						
gamma-Chlordane	<0.00600	U	0.00600	ug/L						
Heptachlor	<0.00600	U	0.00600	ug/L						
Heptachlor epoxide	<0.00600	U	0.00600	ug/L						
Surrogate: 2,4,5,6			0.101	ug/L	0.120		84.2	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.118	ug/L	0.120		98.1	60-140		

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Quality Control
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Elutriate Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0407 - SW-3511 (Continued)

TOX LCS (BHE0407-BS1)

Prepared: 5/2/2024 Analyzed: 5/20/2024

Toxaphene (Chlorinated Camphene)	1.41		0.300	ug/L	1.20		117	60-140		
Surrogate: 2,4,5,6			0.144	ug/L	0.120		120	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.156	ug/L	0.120		130	60-140		

LCS (BHE0407-BS2)

Prepared: 5/2/2024 Analyzed: 5/20/2024

4,4'-DDD	0.0962		0.00600	ug/L	0.120		80.2	60-140		
4,4'-DDE	0.0891		0.00600	ug/L	0.120		74.3	60-140		
4,4'-DDT	0.0933		0.00600	ug/L	0.120		77.8	60-140		
Aldrin	0.0995		0.00600	ug/L	0.120		83.0	60-140		
alpha-BHC	0.115		0.00600	ug/L	0.120		95.8	60-140		
(alpha-Hexachlorocyclohexane)										
beta-BHC	0.116		0.00600	ug/L	0.120		96.4	60-140		
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	0.447		0.00600	ug/L	0.480		93.1	60-140		
cis-Chlordane (alpha-Chlordane)	0.102		0.00600	ug/L	0.120		84.9	60-140		
delta-BHC	0.116		0.00600	ug/L	0.120		97.1	60-140		
Dieldrin	0.0932		0.00600	ug/L	0.120		77.7	60-140		
Endosulfan I	0.0985		0.00600	ug/L	0.120		82.1	60-140		
Endosulfan II	0.0934		0.00600	ug/L	0.120		77.9	60-140		
Endosulfan sulfate	0.0997		0.00600	ug/L	0.120		83.1	60-140		
Endrin	0.108		0.00600	ug/L	0.120		90.0	60-140		
Endrin aldehyde	0.0829		0.00600	ug/L	0.120		69.1	60-140		
Endrin ketone	0.0980		0.00600	ug/L	0.120		81.7	60-140		
gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	0.115		0.00600	ug/L	0.120		95.9	60-140		
gamma-Chlordane	0.108		0.00600	ug/L	0.120		90.2	60-140		
Heptachlor	0.122		0.00600	ug/L	0.120		102	60-140		
Heptachlor epoxide	0.114		0.00600	ug/L	0.120		95.2	60-140		
Surrogate: 2,4,5,6			0.0867	ug/L	0.120		72.2	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.109	ug/L	0.120		90.9	60-140		

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Quality Control
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Elutriate Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0407 - SW-3511 (Continued)

TOX LCSD (BHE0407-BSD1)

Prepared: 5/2/2024 Analyzed: 5/20/2024

Toxaphene (Chlorinated Camphene)	1.56		0.300	ug/L	1.20		130	60-140	10.4	40
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Surrogate: 2,4,5,6			0.117	ug/L	0.120		97.1	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.146	ug/L	0.120		122	60-140		

LCS Dup (BHE0407-BSD2)

Prepared: 5/2/2024 Analyzed: 5/20/2024

4,4'-DDD	0.0879		0.00600	ug/L	0.120		73.3	60-140	9.00	40
4,4'-DDE	0.0885		0.00600	ug/L	0.120		73.7	60-140	0.769	40
4,4'-DDT	0.0927		0.00600	ug/L	0.120		77.3	60-140	0.626	40
Aldrin	0.104		0.00600	ug/L	0.120		86.8	60-140	4.48	40
alpha-BHC	0.112		0.00600	ug/L	0.120		93.2	60-140	2.67	40
(alpha-Hexachlorocyclohexane)										
beta-BHC	0.113		0.00600	ug/L	0.120		94.5	60-140	1.94	40
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	0.454		0.00600	ug/L	0.480		94.6	60-140	1.59	40
cis-Chlordane (alpha-Chlordane)	0.106		0.00600	ug/L	0.120		88.3	60-140	3.90	40
delta-BHC	0.117		0.00600	ug/L	0.120		97.4	60-140	0.301	40
Dieldrin	0.0844		0.00600	ug/L	0.120		70.4	60-140	9.91	40
Endosulfan I	0.100		0.00600	ug/L	0.120		83.6	60-140	1.84	40
Endosulfan II	0.0944		0.00600	ug/L	0.120		78.7	60-140	1.05	40
Endosulfan sulfate	0.100		0.00600	ug/L	0.120		83.5	60-140	0.471	40
Endrin	0.109		0.00600	ug/L	0.120		90.8	60-140	0.962	40
Endrin aldehyde	0.111		0.00600	ug/L	0.120		92.8	60-140	29.3	40
Endrin ketone	0.111		0.00600	ug/L	0.120		92.9	60-140	12.9	40
gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	0.123		0.00600	ug/L	0.120		102	60-140	6.31	40
gamma-Chlordane	0.111		0.00600	ug/L	0.120		92.3	60-140	2.23	40
Heptachlor	0.121		0.00600	ug/L	0.120		101	60-140	0.779	40
Heptachlor epoxide	0.116		0.00600	ug/L	0.120		96.5	60-140	1.39	40
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Surrogate: 2,4,5,6			0.0931	ug/L	0.120		77.6	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.114	ug/L	0.120		95.2	60-140		

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Elutriate Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0407 - SW-3511 (Continued)

BHD5048-BLK1 (BHE0407-LBK2)

Prepared: 5/2/2024 Analyzed: 5/21/2024

4,4'-DDD	<0.0300	U	0.0300	ug/L						
4,4'-DDE	<0.0300	U	0.0300	ug/L						
4,4'-DDT	<0.0300	U	0.0300	ug/L						
Aldrin	<0.0300	U	0.0300	ug/L						
alpha-BHC	<0.0300	U	0.0300	ug/L						
(alpha-Hexachlorocyclohexane)										
beta-BHC	<0.0300	U	0.0300	ug/L						
(beta-Hexachlorocyclohexane)										
Chlordane (Total)	<0.0300	U	0.0300	ug/L						
cis-Chlordane (alpha-Chlordane)	<0.0300	U	0.0300	ug/L						
delta-BHC	<0.0300	U	0.0300	ug/L						
Dieldrin	<0.0300	U	0.0300	ug/L						
Endosulfan I	<0.0300	U	0.0300	ug/L						
Endosulfan II	<0.0300	U	0.0300	ug/L						
Endosulfan sulfate	<0.0300	U	0.0300	ug/L						
Endrin	<0.0300	U	0.0300	ug/L						
Endrin aldehyde	<0.0300	U	0.0300	ug/L						
Endrin ketone	<0.0300	U	0.0300	ug/L						
gamma-BHC (Lindane,	<0.0300	U	0.0300	ug/L						
gamma-HexachlorocyclohexanE)										
gamma-Chlordane	<0.0300	U	0.0300	ug/L						
Heptachlor	<0.0300	U	0.0300	ug/L						
Heptachlor epoxide	<0.0300	U	0.0300	ug/L						
Toxaphene (Chlorinated Camphene)	<1.50	U	1.50	ug/L						
<hr/>										
Surrogate: 2,4,5,6			0.465	ug/L	0.600		77.5	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.335	ug/L	0.600		55.9	60-140		

TOX MRL (BHE0407-MRL1)

Prepared: 5/2/2024 Analyzed: 5/20/2024

Toxaphene (Chlorinated Camphene)	0.412		0.300	ug/L	0.300		137	50-150		
<hr/>										
Surrogate: 2,4,5,6			0.136	ug/L	0.120		113	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.169	ug/L	0.120		140	60-140		

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Quality Control
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Elutriate Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0407 - SW-3511 (Continued)

MRL Check (BHE0407-MRL2)

Prepared: 5/2/2024 Analyzed: 5/20/2024

4,4'-DDD	0.00793		0.00600	ug/L	0.0120		66.1	50-150		
4,4'-DDE	0.00810		0.00600	ug/L	0.0120		67.5	50-150		
4,4'-DDT	0.00822		0.00600	ug/L	0.0120		68.5	50-150		
Aldrin	0.0109		0.00600	ug/L	0.0120		90.6	50-150		
alpha-BHC (alpha-Hexachlorocyclohexane)	0.0108		0.00600	ug/L	0.0120		90.1	50-150		
beta-BHC (beta-Hexachlorocyclohexane)	0.0109		0.00600	ug/L	0.0120		91.0	50-150		
Chlordane (Total)	0.0433		0.00600	ug/L	0.0480		90.3	50-150		
cis-Chlordane (alpha-Chlordane)	0.00818		0.00600	ug/L	0.0120		68.1	50-150		
delta-BHC	0.0117		0.00600	ug/L	0.0120		97.6	50-150		
Dieldrin	0.00952		0.00600	ug/L	0.0120		79.4	50-150		
Endosulfan I	<0.00600	J1, U	0.00600	ug/L	0.0120			50-150		
Endosulfan II	<0.00600	J1, U	0.00600	ug/L	0.0120			50-150		
Endosulfan sulfate	0.00872		0.00600	ug/L	0.0120		72.6	50-150		
Endrin	0.0104		0.00600	ug/L	0.0120		86.9	50-150		
Endrin aldehyde	0.0140		0.00600	ug/L	0.0120		117	50-150		
Endrin ketone	0.00815		0.00600	ug/L	0.0120		67.9	50-150		
gamma-BHC (Lindane, gamma-HexachlorocyclohexaneE)	0.0140		0.00600	ug/L	0.0120		117	50-150		
gamma-Chlordane	0.0112		0.00600	ug/L	0.0120		93.4	50-150		
Heptachlor	0.0122		0.00600	ug/L	0.0120		102	50-150		
Heptachlor epoxide	0.0117		0.00600	ug/L	0.0120		97.7	50-150		
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Surrogate: 2,4,5,6 Tetrachloro-m-xylene-surr			0.0935	ug/L	0.120		77.9	60-140		
Surrogate: Decachlorobiphenyl-surr			0.128	ug/L	0.120		107	60-140		

Matrix Spike (BHE0407-MS1)

Source: 24D4281-05RE1

Prepared: 5/2/2024 Analyzed: 5/20/2024

4,4'-DDD	0.305	J1	0.0300	ug/L	0.600	<0.0300	50.8	60-140		
4,4'-DDE	0.178	J1	0.0300	ug/L	0.600	<0.0300	29.7	60-140		
4,4'-DDT	0.184	J1	0.0300	ug/L	0.600	<0.0300	30.6	60-140		
Aldrin	0.236	J1	0.0300	ug/L	0.600	<0.0300	39.3	60-140		
alpha-BHC (alpha-Hexachlorocyclohexane)	0.616		0.0300	ug/L	0.600	<0.0300	103	60-140		
beta-BHC (beta-Hexachlorocyclohexane)	0.663		0.0300	ug/L	0.600	<0.0300	111	60-140		
Chlordane (Total)	1.72		0.0300	ug/L	2.40	<0.0300	71.8	60-140		
cis-Chlordane (alpha-Chlordane)	0.403		0.0300	ug/L	0.600	<0.0300	67.1	60-140		
delta-BHC	0.638		0.0300	ug/L	0.600	<0.0300	106	60-140		
Dieldrin	0.457		0.0300	ug/L	0.600	<0.0300	76.1	60-140		
Endosulfan I	0.458		0.0300	ug/L	0.600	<0.0300	76.3	60-140		
Endosulfan II	0.470		0.0300	ug/L	0.600	<0.0300	78.3	60-140		
Endosulfan sulfate	0.493		0.0300	ug/L	0.600	<0.0300	82.1	60-140		
Endrin	0.541		0.0300	ug/L	0.600	<0.0300	90.2	60-140		
Endrin aldehyde	0.430		0.0300	ug/L	0.600	<0.0300	71.7	60-140		
Endrin ketone	0.461		0.0300	ug/L	0.600	<0.0300	76.8	60-140		

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Elutriate Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0407 - SW-3511 (Continued)										
Matrix Spike (BHE0407-MS1)			Source: 24D4281-05RE1			Prepared: 5/2/2024 Analyzed: 5/20/2024				
gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	0.601		0.0300	ug/L	0.600	<0.0300	100	60-140		
gamma-Chlordane	0.354	J1	0.0300	ug/L	0.600	<0.0300	59.0	60-140		
Heptachlor	0.405		0.0300	ug/L	0.600	<0.0300	67.5	60-140		
Heptachlor epoxide	0.560		0.0300	ug/L	0.600	<0.0300	93.4	60-140		
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Surrogate: 2,4,5,6		S	0.285	ug/L	0.600		47.5	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.276	ug/L	0.600		46.1	60-140		

Matrix Spike Dup (BHE0407-MSD1)

Source: 24D4281-05RE1

Prepared: 5/2/2024 Analyzed: 5/21/2024

4,4'-DDD	0.256	J1	0.0300	ug/L	0.600	<0.0300	42.7	60-140	17.2	40
4,4'-DDE	0.137	J1	0.0300	ug/L	0.600	<0.0300	22.8	60-140	26.3	40
4,4'-DDT	0.103	J1	0.0300	ug/L	0.600	<0.0300	17.2	60-140	56.2	40
Aldrin	0.192	J1	0.0300	ug/L	0.600	<0.0300	32.1	60-140	20.3	40
alpha-BHC (alpha-Hexachlorocyclohexane)	0.602		0.0300	ug/L	0.600	<0.0300	100	60-140	2.24	40
beta-BHC (beta-Hexachlorocyclohexane)	0.633		0.0300	ug/L	0.600	<0.0300	106	60-140	4.62	40
Chlordane (Total)	1.55		0.0300	ug/L	2.40	<0.0300	64.5	60-140	10.6	40
cis-Chlordane (alpha-Chlordane)	0.354	J1	0.0300	ug/L	0.600	<0.0300	59.0	60-140	12.8	40
delta-BHC	0.651		0.0300	ug/L	0.600	<0.0300	109	60-140	2.06	40
Dieldrin	0.407		0.0300	ug/L	0.600	<0.0300	67.9	60-140	11.4	40
Endosulfan I	0.432		0.0300	ug/L	0.600	<0.0300	72.0	60-140	5.80	40
Endosulfan II	0.479		0.0300	ug/L	0.600	<0.0300	79.9	60-140	1.95	40
Endosulfan sulfate	0.479		0.0300	ug/L	0.600	<0.0300	79.8	60-140	2.90	40
Endrin	0.499		0.0300	ug/L	0.600	<0.0300	83.2	60-140	8.17	40
Endrin aldehyde	0.446		0.0300	ug/L	0.600	<0.0300	74.3	60-140	3.59	40
Endrin ketone	0.485		0.0300	ug/L	0.600	<0.0300	80.8	60-140	5.09	40
gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	0.606		0.0300	ug/L	0.600	<0.0300	101	60-140	0.853	40
gamma-Chlordane	0.289	J1	0.0300	ug/L	0.600	<0.0300	48.2	60-140	20.3	40
Heptachlor	0.366		0.0300	ug/L	0.600	<0.0300	61.0	60-140	10.2	40
Heptachlor epoxide	0.540		0.0300	ug/L	0.600	<0.0300	90.0	60-140	3.70	40
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Surrogate: 2,4,5,6		S	0.270	ug/L	0.600		45.0	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.202	ug/L	0.600		33.7	60-140		

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Quality Control
(Continued)

Elutriate Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0861 - SW-3511										
Blank (BHE0861-BLK1)										
Prepared: 5/6/2024 Analyzed: 5/7/2024										
PCBs, Total	<0.120	U	0.120	ug/L						

Surrogate: 2,4,5,6			0.0956	ug/L	0.120		79.7	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr			0.0904	ug/L	0.120		75.4	60-140		

LCS (BHE0861-BS1)										
Prepared: 5/6/2024 Analyzed: 5/7/2024										
Aroclor-1016 (PCB-1016)	1.13		0.120	ug/L	1.20		93.8	60-140		
Aroclor-1260 (PCB-1260)	0.851		0.120	ug/L	1.20		70.9	60-140		
PCBs, Total	0.989		0.120	ug/L	1.20		82.4	60-140		

Surrogate: 2,4,5,6			0.0801	ug/L	0.120		66.7	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.0692	ug/L	0.120		57.7	60-140		

LCS Dup (BHE0861-BSD1)										
Prepared: 5/6/2024 Analyzed: 5/7/2024										
Aroclor-1016 (PCB-1016)	1.16		0.120	ug/L	1.20		96.4	60-140	2.72	40
Aroclor-1260 (PCB-1260)	0.836		0.120	ug/L	1.20		69.6	60-140	1.85	40
PCBs, Total	0.996		0.120	ug/L	1.20		83.0	60-140	0.780	40

Surrogate: 2,4,5,6			0.0856	ug/L	0.120		71.3	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.0658	ug/L	0.120		54.8	60-140		

BHD5048-BLK1 (BHE0861-LBK1)										
Prepared: 5/6/2024 Analyzed: 5/7/2024										
Aroclor-1016 (PCB-1016)	<0.120	U	0.120	ug/L						
Aroclor-1221 (PCB-1221)	<0.120	U	0.120	ug/L						
Aroclor-1232 (PCB-1232)	<0.120	U	0.120	ug/L						
Aroclor-1242 (PCB-1242)	<0.120	U	0.120	ug/L						
Aroclor-1248 (PCB-1248)	<0.120	U	0.120	ug/L						
Aroclor-1254 (PCB-1254)	<0.120	U	0.120	ug/L						
Aroclor-1260 (PCB-1260)	<0.120	U	0.120	ug/L						
PCBs, Total	<0.120	U	0.120	ug/L						

Surrogate: 2,4,5,6			0.0967	ug/L	0.120		80.6	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.0207	ug/L	0.120		17.3	60-140		

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Quality Control
(Continued)

Elutriate Organics by GC (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0861 - SW-3511 (Continued)

MRL Check (BHE0861-MRL1)

Prepared: 5/6/2024 Analyzed: 5/7/2024

Aroclor-1016 (PCB-1016)	0.236		0.120	ug/L	0.240		98.5	50-150		
Aroclor-1260 (PCB-1260)	0.171		0.120	ug/L	0.240		71.1	50-150		
PCBs, Total	0.204		0.120	ug/L	0.240		84.8	50-150		
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Surrogate: 2,4,5,6		S	0.0893	ug/L	0.240		37.2	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.0746	ug/L	0.240		31.1	60-140		

Matrix Spike (BHE0861-MS1)

Source: 24D3569-04

Prepared: 5/6/2024 Analyzed: 5/7/2024

Aroclor-1016 (PCB-1016)	0.924		0.120	ug/L	1.20	<0.120	77.0	60-140		
Aroclor-1260 (PCB-1260)	0.476	J1	0.120	ug/L	1.20	<0.120	39.7	60-140		
PCBs, Total	0.700	J1	0.120	ug/L	1.20	<0.120	58.3	60-140		
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Surrogate: 2,4,5,6			0.0860	ug/L	0.120		71.6	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.0378	ug/L	0.120		31.5	60-140		

Matrix Spike Dup (BHE0861-MSD1)

Source: 24D3569-04

Prepared: 5/6/2024 Analyzed: 5/7/2024

Aroclor-1016 (PCB-1016)	0.988		0.120	ug/L	1.20	<0.120	82.3	60-140	6.68	40
Aroclor-1260 (PCB-1260)	0.519	J1	0.120	ug/L	1.20	<0.120	43.3	60-140	8.60	40
PCBs, Total	0.754		0.120	ug/L	1.20	<0.120	62.8	60-140	7.34	40
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Surrogate: 2,4,5,6			0.0814	ug/L	0.120		67.8	60-140		
Tetrachloro-m-xylene-surr										
Surrogate: Decachlorobiphenyl-surr		S	0.0388	ug/L	0.120		32.3	60-140		

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Quality Control
(Continued)

Elutriate Metals, Dissolved

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE3260 - EPA 200.8 Dissolved

Blank (BHE3260-BLK1)

Prepared & Analyzed: 5/20/2024

Antimony	0.267	J	1.00	ug/L						
Arsenic	<0.500	U	0.500	ug/L						
Cadmium	<1.00	U	1.00	ug/L						
Chromium	<3.00	U	3.00	ug/L						
Copper	0.248	J	1.00	ug/L						
Lead	<0.500	U	0.500	ug/L						
Nickel	<1.00	U	1.00	ug/L						
Silver	<0.500	U	0.500	ug/L						

Blank (BHE3260-BLK2)

Prepared: 5/20/2024 Analyzed: 5/21/2024

Zinc	<2.00	U	2.00	ug/L						
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LCS (BHE3260-BS1)

Prepared & Analyzed: 5/20/2024

Antimony	93.4		1.00	ug/L	100		93.4	85-115		
Arsenic	51.1		0.500	ug/L	50.0		102	85-115		
Cadmium	99.6		1.00	ug/L	100		99.6	85-115		
Chromium	297		3.00	ug/L	300		99.2	85-115		
Copper	104		1.00	ug/L	100		104	85-115		
Lead	47.9		0.500	ug/L	50.0		95.9	85-115		
Nickel	99.6		1.00	ug/L	100		99.6	85-115		
Silver	50.2		0.500	ug/L	50.0		100	85-115		

LCS (BHE3260-BS2)

Prepared: 5/20/2024 Analyzed: 5/21/2024

Zinc	202		2.00	ug/L	200		101	85-115		
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Duplicate (BHE3260-DUP1)

Source: 24D3569-04

Prepared & Analyzed: 5/20/2024

Antimony	2.42	J	5.00	ug/L		2.78			13.8	20
Arsenic	2.62		2.50	ug/L		3.19			19.6	20
Cadmium	<5.00	U	5.00	ug/L		<5.00				20
Chromium	<15.0	U	15.0	ug/L		0.570			200	20
Copper	1.48	J	5.00	ug/L		1.42			4.83	20
Lead	<2.50	U	2.50	ug/L		<2.50				20
Nickel	1.58	J	5.00	ug/L		1.78			12.2	20
Silver	<2.50	U	2.50	ug/L		<2.50				20



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Quality Control
(Continued)

Elutriate Metals, Dissolved (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE3260 - EPA 200.8 Dissolved (Continued)

Duplicate (BHE3260-DUP2)

Source: 24D3569-04

Prepared: 5/20/2024 Analyzed: 5/21/2024

Zinc	8.90	J	10.0	ug/L		8.27			7.34	20
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BHD5048-BLK2 (BHE3260-LBK1)

Prepared & Analyzed: 5/20/2024

Antimony	0.235	J	1.00	ug/L						
Arsenic	<0.500	U	0.500	ug/L						
Cadmium	<1.00	U	1.00	ug/L						
Chromium	<3.00	U	3.00	ug/L						
Copper	0.474	J	1.00	ug/L						
Lead	<0.500	U	0.500	ug/L						
Nickel	0.245	J	1.00	ug/L						
Silver	<0.500	U	0.500	ug/L						

BHD5048-BLK2 (BHE3260-LBK2)

Prepared: 5/20/2024 Analyzed: 5/21/2024

Zinc	1.61	J	2.00	ug/L						
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MDL Check (BHE3260-MRL1)

Prepared & Analyzed: 5/20/2024

Antimony	0.480	J	1.00	ug/L	0.200				240	
Arsenic	0.0960	J	0.500	ug/L	0.100				96.0	
Cadmium	0.0540	J	1.00	ug/L	0.0500				108	
Chromium	0.107	J	3.00	ug/L	0.0800				134	
Copper	0.474	J	1.00	ug/L	0.200				237	
Lead	0.115	J	0.500	ug/L	0.100				115	
Nickel	0.0530	J	1.00	ug/L	0.0500				106	
Silver	0.0330	J	0.500	ug/L	0.0300				110	

MDL Check (BHE3260-MRL2)

Prepared: 5/20/2024 Analyzed: 5/21/2024

Zinc	0.303	J	2.00	ug/L	0.200				152	
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Quality Control
 (Continued)

Elutriate Metals, Dissolved (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE3260 - EPA 200.8 Dissolved (Continued)

Matrix Spike (BHE3260-MS1)

Source: 24D3569-04

Prepared & Analyzed: 5/20/2024

Antimony	501		5.00	ug/L	500	2.78	99.7	75-125		
Arsenic	264		2.50	ug/L	250	3.19	105	75-125		
Cadmium	484		5.00	ug/L	500	<5.00	96.8	75-125		
Chromium	1570		15.0	ug/L	1500	0.570	105	75-125		
Copper	499		5.00	ug/L	500	1.42	99.5	75-125		
Lead	235		2.50	ug/L	250	<2.50	93.8	75-125		
Nickel	494		5.00	ug/L	500	1.78	98.4	75-125		
Silver	239		2.50	ug/L	250	<2.50	95.5	75-125		

Matrix Spike (BHE3260-MS2)

Source: 24D3569-04

Prepared: 5/20/2024 Analyzed: 5/21/2024

Zinc	965		10.0	ug/L	1000	8.27	95.7	75-125		
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Quality Control
(Continued)

Elutriate Metals, Total

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHE0280 - EPA 245.1										
Blank (BHE0280-BLK1)										
Mercury	<0.200	U	0.200	ug/L	Prepared & Analyzed: 5/7/2024					
LCS (BHE0280-BS1)										
Mercury	4.82		0.200	ug/L	5.00		96.4	85-115		
Duplicate (BHE0280-DUP1) Source: 24D3569-04										
Mercury	<0.200	U	0.200	ug/L		<0.200				20
BHD5048-BLK1 (BHE0280-LBK1)										
Mercury	<0.200	U	0.200	ug/L	Prepared & Analyzed: 5/7/2024					
MDL Check (BHE0280-MRL1)										
Mercury	<0.200	U	0.200	ug/L	Prepared & Analyzed: 5/7/2024					
Matrix Spike (BHE0280-MS1) Source: 24D3569-04										
Mercury	4.84		0.200	ug/L	5.00	<0.200	96.7	70-130		

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Quality Control
(Continued)

Elutriate General Chemistry

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE0665 - NH3-N SEAL-350.1

BHD5048-BLK1 (BHE0665-LBK1)					Prepared & Analyzed: 5/10/2024					
Ammonia as N	0.0200	J	0.0500	mg/L						
MRL Check (BHE0665-MRL1)					Prepared & Analyzed: 5/10/2024					
Ammonia as N	0.0770	J1	0.0500	mg/L	0.0400		192	50-150		
Matrix Spike (BHE0665-MS1)					Prepared & Analyzed: 5/10/2024					
			Source: 24E1074-02							
Ammonia as N	0.248		0.0500	mg/L	0.200	0.0550	96.5	90-110		
Matrix Spike (BHE0665-MS2)					Prepared & Analyzed: 5/10/2024					
			Source: 24E0044-01							
Ammonia as N	0.243		0.0500	mg/L	0.200	0.0470	98.0	90-110		
Matrix Spike Dup (BHE0665-MSD1)					Prepared & Analyzed: 5/10/2024					
			Source: 24E1074-02							
Ammonia as N	0.250		0.0500	mg/L	0.200	0.0550	97.5	90-110	0.803	20
Matrix Spike Dup (BHE0665-MSD2)					Prepared & Analyzed: 5/10/2024					
			Source: 24E0044-01							
Ammonia as N	0.241		0.0500	mg/L	0.200	0.0470	97.0	90-110	0.826	20

Batch: BHE1995 - NH3-N SEAL-350.1

BHD5048-LBK1 (BHE1995-LBK1)					Prepared & Analyzed: 5/14/2024					
Ammonia as N	<0.0500	U	0.0500	mg/L						
MRL Check (BHE1995-MRL1)					Prepared & Analyzed: 5/14/2024					
Ammonia as N	0.0520		0.0500	mg/L	0.0400		130	50-150		
Matrix Spike (BHE1995-MS1)					Prepared & Analyzed: 5/14/2024					
			Source: 24E1074-02RE1							
Ammonia as N	0.267		0.0500	mg/L	0.200	0.0590	104	90-110		



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Quality Control
 (Continued)

Elutriate General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BHE1995 - NH3-N SEAL-350.1 (Continued)

Matrix Spike (BHE1995-MS2)		Source: 24E0044-01RE1		Prepared & Analyzed: 5/14/2024						
Ammonia as N	0.263		0.0500	mg/L	0.200	0.0590	102	90-110		
Matrix Spike Dup (BHE1995-MSD1)		Source: 24E1074-02RE1		Prepared & Analyzed: 5/14/2024						
Ammonia as N	0.260		0.0500	mg/L	0.200	0.0590	100	90-110	2.66	20
Matrix Spike Dup (BHE1995-MSD2)		Source: 24E0044-01RE1		Prepared & Analyzed: 5/14/2024						
Ammonia as N	0.262		0.0500	mg/L	0.200	0.0590	102	90-110	0.381	20

Batch: BHE2396 - NH3-N SEAL-350.1

MRL Check (BHE2396-MRL1)				Prepared & Analyzed: 5/15/2024						
Ammonia as N	0.0430	J	0.0500	mg/L	0.0400		108	50-150		
Matrix Spike (BHE2396-MS1)		Source: 24E0797-01		Prepared & Analyzed: 5/15/2024						
Ammonia as N	0.740	J1	0.200	mg/L	0.200	0.532	104	90-110		
Matrix Spike Dup (BHE2396-MSD1)		Source: 24E0797-01		Prepared & Analyzed: 5/15/2024						
Ammonia as N	0.740	J1	0.200	mg/L	0.200	0.532	104	90-110	0.00	20



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Sample Condition Checklist

Work Order: 24D3569

Check Points

- No Custody Seals
- Yes Containers Intact
- Yes COC/Labels Agree
- Yes Received On Ice
- Yes Appropriate Containers
- Yes Appropriate Sample Volume
- Yes Coolers Intact
- Yes Samples Accepted

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Term and Qualifier Definitions

Item	Definition
B	Analyte was found in the associated method blank.
B2	The analyte was detected in the associated leach blank.
J	Estimated value - The reported value is between the detection limit and reporting limit.
J1	Estimated value - The reported value is outside the established quality control criteria for accuracy and/or precision.
S	The surrogate recovery was outside the established laboratory recovery limit.
U	Non-detected compound.
V	Analyte was detected in both sample and method blank.
V2	The analyte was detected in the sample and the associated leach blank.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated
*	A = Accredited, N = Not Accredited or Accreditation not available
DF	Dilution Factor - the factor applied to the reported data due to sample preparation, dilution, or moisture content
MDL	Method Detection Limit - The minimum concentration of a substance (or analyte) that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. Based on standard deviation of replicate spiked samples take through all steps of the analytical procedure following 40 CFR Part 136 Appendix B.
SDL	Sample Detection Limit - The minimum concentration of a substance (analyte) that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The SDL is an adjusted limit thus sample specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments. If there are no sample specific parameters, the MDL = SDL.
MRL	Method Reporting Limit - Analyte concentration that corresponds to the lowest level lab reports with confidence in accuracy of quantitation and without qualification (i.e. J-flagged). The MRL is at or above the lowest calibration standard.
LRL	Laboratory Reporting Limit - Analyte concentration that corresponds to the lowest level lab reports with confidence in accuracy of quantitation and without qualification (i.e. J-flagged). The LRL is an adjusted limit thus sample specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments. If there are no sample specific parameters, the MRL = LRL.



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
 130 S. Trade Center Pkwy, Conroe TX 77385
 (936) 321-6060 - lab@nwdls.com
 TCEQ TX-C24-00086



24D3569

Anchor OEA, LLC
 Sara Flaherty
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
24D3569-01	CPC-EQ BLK	4-25-24 1:40 PM	4-25-24 1:45 PM	AQ Grab	A PreClean HDPE 250ml HNO3 after Fill B PreCleaned HDPE 250ml HNO3	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200 HNO3	
24D3569-02	CPC-08-SW-4-25-24	4-25-24 12:50 PM	4-25-24 1:00 PM	AQ Grab	A PreClean HDPE 250ml HNO3 after Fill B PreCleaned HDPE 250ml HNO3 C PreCleaned HDPE 250ml H2SO4 D Glass VOA 60ml E Glass VOA 60ml F Glass VOA 60ml G Glass VOA 60ml H Glass VOA 60ml I Glass VOA 60ml J Glass VOA 60ml K Glass VOA 60ml L Glass VOA 60ml M Glass VOA 60ml N Glass VOA 40ml HCl O Glass VOA 40ml HCl pH<2 P Glass VOA 40ml HCl pH<2 Q Amber Glass 1L w/ pH<2 R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200 HNO3 Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200 HNO3 PCB-8082 4°C SVOA-8270 4°C TPH-1005 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Prep 4°C TOC-5310 C H2SO4 4°C	



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
 130 S. Trade Center Pkwy, Conroe TX 77385
 (936) 321-6060 - lab@nwdlis.com



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(Continued)

Anchor QEA, LLC
 Sara Flaherty
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

24D3569-03	CPC-09-SW-4-25-24	4-25-24 10:35 AM	4-25-24 10:50 AM	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass 250mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl pH<2 O Glass VOA 40mL HCl pH<2 P Glass VOA 40mL HCl pH<2 Q Amber Glass 1L w/ Teflon-lined Lid R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid	Antimony KED D ICPMS:HNO3 Arsenic KED D ICPMS 2:HNO3 Cadmium KED D ICPMS:HNO3 Chromium KED D ICPM:HNO3 Copper KED D ICPMS 2:HNO3 Hg-245, 1 HNO3 Lead KED D ICPMS 200:HNO3 Nickel KED D ICPMS 20:HNO3 Silver KED D ICPMS 201:HNO3 Zinc KED D ICPMS 200, HNO3 OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 4°C NH3-N SEAL-350, 1 H2SO4 4°C Site Water Elutriate Pref 4°C TOC-5310 C H2SO4 4°C



CHAIN OF CUSTODY RECORD

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(Continued)

Anchor QEA, LLC
 Sara Flaherty
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

24D3569-04	CPC-08-SET-4-25-24	4-25-24 1:20pm	4-25-24 1:35pm	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS E4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E4°C Hg-245.1-ELUT 4°C Lead KED D ICPMS EL14°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU4°C OCP-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle 4°C NH3-N SEAL-350.1-ELU4°C TOC-5310 C-ELUT 4°C
24D3569-05	CPC-09-SET-4-25-24	4-25-24 11:46 AM	4-25-24 11:55 AM	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS E4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E4°C Hg-245.1-ELUT 4°C Lead KED D ICPMS EL14°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU4°C OCP-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle 4°C NH3-N SEAL-350.1-ELU4°C TOC-5310 C-ELUT 4°C



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
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 TCEQ TX-C24-00086



24D3569

(Continued)

Anchor QEA, LLC
 Sara Flaherty
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

24D3569-06	CPC-08-SC-4-25-29	4-25-29 1:20pm	4-25-29 1:25pm	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 2.4°C Arsenic KED ICPMS 20.4°C Cadmium KED ICPMS 2.4°C Chromium KED ICPMS 4°C Copper KED ICPMS 20.4°C Hg-7471 4°C Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200.4°C Silver KED ICPMS 200.4°C Zinc KED ICPMS 200.8 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 <-20°C Sub_Dioxin-Furan 4°C Sub_Grain Size-Laser 4°C NH3-N T-350.2 4°C TOC-9060 4°C TS-2540 G 4°C
24D3569-07	CPC-09-SC-4-25-29	4-25-29 11:40AM	4-25-29 11:55AM	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 2.4°C Arsenic KED ICPMS 20.4°C Cadmium KED ICPMS 2.4°C Chromium KED ICPMS 4°C Copper KED ICPMS 20.4°C Hg-7471 4°C Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200.4°C Silver KED ICPMS 200.4°C Zinc KED ICPMS 200.8 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 <-20°C Sub_Dioxin-Furan 4°C Sub_Grain Size-Laser 4°C NH3-N T-350.2 4°C TOC-9060 4°C TS-2540 G 4°C



CHAIN OF CUSTODY RECORD

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(Continued)

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023		Schedule Comments:	
Project Comments:			

Field Remarks:		Relinquished By: (Signature)	Relinquished By: (Signature)	Relinquished To Lab By: (Signature)	Preservation: (Circle and Write ID)	Received By: (Signature)	Received By: (Signature)	Received for Laboratory By: (Signature)	NaOH	Other:	Date/Time	Date/Time
Sampler (Signature)	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	H2SO4	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>			4/25/24 2:40P	4/25/24
Print Name	John Sparks	John Sparks	<i>[Signature]</i>	<i>[Signature]</i>	HNO3	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>			4/25/24 4:23PM	4/25/24
Affiliation	TWE											4/25/24 7:46:23

Custody Seal: Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No

Container Intact: Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No

Temperature: 4.8/4.5 °C

Thermometer ID: 20071679460

Anchor

wko_NWDLIS_COC_noDate_LS version 4: 02/22/2021

Laboratory Analysis Report

Total Number of Pages: 14

Job ID : 24050335



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name : 24D3569

Report To : Client Name: NWDLS
Attn: Monica O. Martin
Client Address: 130 S Trade Center Pkwy
City, State, Zip: Conroe, Texas, 77385

P.O.#.: 24D3569
Sample Collected By:
Date Collected: 04/25/24 - 05/01/24

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
24D3569-02	Water	24050335.01
24D3569-03	Water	24050335.02
24D3569-04	Water	24050335.03
24D3569-05	Water	24050335.04
24D3569-06	Sludge	24050335.05
24D3569-07	Sludge	24050335.06

A handwritten signature in black ink, appearing to read 'Senthikumar Sevukan', with a horizontal line drawn underneath it.

Released By: Senthikumar Sevukan
Title: Vice President Operations
Date: 5/9/2024



This Laboratory is NELAP (T104704213-23-31) accredited. Effective: 04/01/2024; Expires: 03/31/2025
Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

ab-q210-0321

Date Received : 05/02/2024 16:50

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 24050335

Date: 5/9/2024

General Term Definition

Back-Wt	Back Weight	MQL	Unadjusted Minimum Quantitation Limit
BRL	Below Reporting Limit	Post-Wt	Post Weight
cfu	colony-forming units	ppm	parts per million
Conc.	Concentration	Pre-Wt	Previous Weight
D.F.	Dilution Factor	Q	Qualifier
Front-Wt	Front Weight	RegLimit	Regulatory Limit
J	Estimation. Below calibration range but above MDL	RLU	Relative Light Unit
LCS	Laboratory Check Standard	RPD	Relative Percent Difference
LCSD	Laboratory Check Standard Duplicate	RptLimit	Reporting Limit
LOD	Limit of detection adjusted for %M + DF	SDL	Sample Detection Limit
LOQ	Limit of Quantitation adjusted for %M + DF	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight	UQL	Unadjusted Upper Quantitation Limit

Qualifier Definition

H3	Sample was received and analyzed past holding time.
J	Estimation. Below calibration range but above MDL.
S8	Target compounds caused elevation of baseline. Surrogate may be biased high.
U	Undetected at SDL (Sample Detection Limit).



LABORATORY TEST RESULTS

Job ID : 24050335

Date 5/9/2024

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 24D3569

Client Sample ID: 24D3569-02 Job Sample ID: 24050335.01
 Date Collected: 04/25/24 Sample Matrix: Water
 Time Collected: 13:00 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12	<0.60	mg/L	0.98	0.60	2.11		U	05/03/24 18:13	VK
	>C12-C28	<0.63	mg/L	0.98	0.63	2.11		U	05/03/24 18:13	VK
	>C28-C35	<0.46	mg/L	0.98	0.46	2.11		U	05/03/24 18:13	VK
	Total C6-C35	<0.46	mg/L	0.98	0.46			U	05/03/24 18:13	VK
	1-Chlorooctane(surr)	107	%	0.98			70-130		05/03/24 18:13	MV
	Chlorooctadecane(surr)	98.5	%	0.98			70-130		05/03/24 18:13	MV

ab-q212-0321
 Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Job ID : 24050335

Date 5/9/2024

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 24D3569

Client Sample ID: 24D3569-03 Job Sample ID: 24050335.02
 Date Collected: 04/25/24 Sample Matrix: Water
 Time Collected: 10:50 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12	<0.58	mg/L	0.95	0.58	2.04		U	05/03/24 18:49	VK
	>C12-C28	<0.61	mg/L	0.95	0.61	2.04		U	05/03/24 18:49	VK
	>C28-C35	<0.45	mg/L	0.95	0.45	2.04		U	05/03/24 18:49	VK
	Total C6-C35	<0.45	mg/L	0.95	0.45			U	05/03/24 18:49	VK
	1-Chlorooctane(surr)	122	%	0.95		70-130			05/03/24 18:49	MV
	Chlorooctadecane(surr)	115	%	0.95		70-130			05/03/24 18:49	MV

ab-q212-0321
 Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Job ID : 24050335

Date 5/9/2024

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 24D3569

Client Sample ID: 24D3569-04 Job Sample ID: 24050335.03
 Date Collected: 05/01/24 Sample Matrix: Water
 Time Collected: 14:16 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12	<0.58	mg/L	0.95	0.58	2.04		U	05/03/24 19:25	VK
	>C12-C28	<0.61	mg/L	0.95	0.61	2.04		U	05/03/24 19:25	VK
	>C28-C35	<0.45	mg/L	0.95	0.45	2.04		U	05/03/24 19:25	VK
	Total C6-C35	<0.45	mg/L	0.95	0.45			U	05/03/24 19:25	VK
	1-Chlorooctane(surr)	120	%	0.95		70-130			05/03/24 19:25	MV
	Chlorooctadecane(surr)	119	%	0.95		70-130			05/03/24 19:25	MV

ab-q212-0321
 Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Job ID : 24050335

Date 5/9/2024

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 24D3569

Client Sample ID: 24D3569-05 Job Sample ID: 24050335.04
 Date Collected: 05/01/24 Sample Matrix: Water
 Time Collected: 14:16 % Moisture
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12	<0.58	mg/L	0.95	0.58	2.04		U	05/03/24 20:01	VK
	>C12-C28	<0.61	mg/L	0.95	0.61	2.04		U	05/03/24 20:01	VK
	>C28-C35	<0.45	mg/L	0.95	0.45	2.04		U	05/03/24 20:01	VK
	Total C6-C35	<0.45	mg/L	0.95	0.45			U	05/03/24 20:01	VK
	1-Chlorooctane(surr)	115	%	0.95		70-130			05/03/24 20:01	MV
	Chlorooctadecane(surr)	111	%	0.95		70-130			05/03/24 20:01	MV

ab-q212-0321
 Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Job ID : 24050335

Date 5/9/2024

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 24D3569

Client Sample ID: 24D3569-06 Job Sample ID: 24050335.05
 Date Collected: 04/25/24 Sample Matrix: Sludge
 Time Collected: 13:35 % Moisture: 38.8
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 2540G	% Moisture									
	% Moisture	38.8	%	1		0.100		H3	05/03/24 15:30	BR
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12*	17.8	mg/Kg	1.00	14.6	40.8		J	05/04/24 10:25	SKY
	>C12-C28*	<12.0	mg/Kg	1.00	12.0	40.8		U	05/04/24 10:25	SKY
	>C28-C35*	21.1	mg/Kg	1.00	10.1	40.8		J	05/04/24 10:25	SKY
	Total C6-C35*	38.9	mg/Kg	1.00	10.1			J	05/04/24 10:25	SKY
	1-Chlorooctane(surr)	92.5	%	1.00		70-130			05/04/24 10:25	SKY
	Chlorooctadecane(surr)	93.5	%	1.00		70-130			05/04/24 10:25	SKY



LABORATORY TEST RESULTS

Job ID : 24050335

Date 5/9/2024

Client Name: NWDLS Attn: Monica O. Martin
 Project Name: 24D3569

Client Sample ID: 24D3569-07 Job Sample ID: 24050335.06
 Date Collected: 04/25/24 Sample Matrix: Sludge
 Time Collected: 11:55 % Moisture: 29.4
 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 2540G	% Moisture									
	% Moisture	29.4	%	1		0.100		H3	05/03/24 15:30	BR
TX 1005	Total Petroleum Hydrocarbons									
	C6-C12*	24.4	mg/Kg	1.00	12.7	35.4		J	05/04/24 11:12	SKY
	>C12-C28*	<10.4	mg/Kg	1.00	10.4	35.4		U	05/04/24 11:12	SKY
	>C28-C35*	10.9	mg/Kg	1.00	8.78	35.4		J	05/04/24 11:12	SKY
	Total C6-C35*	35.3	mg/Kg	1.00	8.78			J	05/04/24 11:12	SKY
	1-Chlorooctane(surr)	94.5	%	1.00		70-130			05/04/24 11:12	SKY
	Chlorooctadecane(surr)	100	%	1.00		70-130			05/04/24 11:12	SKY

ab-q212-0321
 Soil results reported on dry weight basis

QUALITY CONTROL CERTIFICATE



Job ID : 24050335

Date : 5/9/2024

Analysis : % Moisture	Method : SM 2540G	Reporting Units : %
QC Batch ID : Qb240503136	Created Date : 05/03/24	Created By : BRose
Samples in This QC Batch : 24050335.05,06		
Sample Preparation : PB24050346	Prep Method : SM 2540G	Prep Date : 05/03/24 15:00 Prep By : BRose

QC Type: Method Blank								
Parameter	CAS #	Result	Units	D.F.	ML	MDL		Qual
% Moisture		< MQL	%	1	0.1			

QC Type: Duplicate								
QC Sample ID: 24050260.03								
Parameter	QC Sample Result	Sample Result	Units	RPD	RPD CtrLimit			Qual
% Moisture	23.9	23.8	%	0.4	20			

QUALITY CONTROL CERTIFICATE



Job ID : 24050335

Date : 5/9/2024

Analysis : Total Petroleum Hydrocarbons **Method :** TX 1005 **Reporting Units :** mg/Kg

QC Batch ID : Qb240503167 **Created Date :** 05/03/24 **Created By :** SKYanduru

Samples in This QC Batch : 24050335.05,06

Sample Preparation : PB24050366 **Prep Method :** TX 1005 **Prep Date :** 05/03/24 11:29 **Prep By :** JOlivera

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
C6-C12	TPH-1005-1	< MDL	mg/Kg	1.00	25	8.94	
>C12-C28	TPH-1005-2	< MDL	mg/Kg	1.00	25	7.35	
>C28-C35	TPH-1005-4	< MDL	mg/Kg	1.00	25	6.20	
Total C6-C35		< MDL	mg/Kg	1.00	----	6.20	
Chlorooctadecane(surr)	3386-33-2	80.5	%	1.00			
1-Chlorooctane(surr)	111-85-3	87	%	1.00			

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	500	561	112	500	522	104	7.2	20	75-125	
>C12-C28	500	521	104	500	508	102	2.5	20	75-125	
>C28-C35	500	416	83.3	500	394	78.7	5.4	20	75-125	

QC Type: MS and MSD

QC Sample ID: 24050260.03

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
C6-C12	16.6	500	490	97.9	500	469	93.8	4.4	20	75-125	
>C12-C28	8.81	500	512	102	500	474	94.8	7.7	20	75-125	
>C28-C35	14.7	500	401	80.2	500	412	82.4	2.7	20	75-125	

QUALITY CONTROL CERTIFICATE



Job ID : 24050335

Date : 5/9/2024

Analysis : Total Petroleum Hydrocarbons

Method : TX 1005

Reporting Units : mg/L

QC Batch ID : Qb24050602

Created Date : 05/03/24

Created By : Vinod

Samples in This QC Batch : 24050335.01,02,03,04

Sample Preparation : PB24050602

Prep Method : TX 1005

Prep Date : 05/03/24 10:00

Prep By : JOlivera

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
C6-C12	TPH-1005-1	< MDL	mg/L	1.00	2.15	0.61	
>C12-C28	TPH-1005-2	< MDL	mg/L	1.00	2.15	0.64	
>C28-C35	TPH-1005-4	< MDL	mg/L	1.00	2.15	0.47	
Total C6-C35		< MDL	mg/L	1.00	----	0.47	
Chlorooctadecane(surr)	3386-33-2	109	%	1.00			
1-Chlorooctane(surr)	111-85-3	112	%	1.00			

QC Type: Duplicate

QC Sample ID: 24050332.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
>C12-C28	BRL	BRL	mg/L	0	20	
>C28-C35	BRL	BRL	mg/L	0	20	
C6-C12	BRL	BRL	mg/L	0	20	
Total C6-C35	BRL	BRL	mg/L	0	20	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	43	40.3	93.7	43	39.8	92.7	1.2	20	75-125	
>C12-C28	43	41.6	96.7	43	40.4	94	2.9	20	75-125	
>C28-C35	43	48.6	113	43	50.7	118	4.2	20	75-125	



Job ID:24050335

**SUBCONTRACT
ORDER**



05/02/2024

NWDLS

AMS

Sending Laboratory:

North Water District Laboratory Services, Inc.
130 South Trade Center Parkway
Conroe, TX 77385
Phone: 936-321-6060
Fax: 936-321-6061

Project Manager: Monica O. Martin

Subcontracted Laboratory:

A & B Labs
10100 East Freeway, Suite 100
Houston, TX 77029
Phone: (713) 453-6060
Fax: (713) 453-6091

Work Order: 24D3569

Analysis	Due	Expires	Comments
Sample ID: 24D3569-02 Marine Water Sampled: 04/25/2024 13:00			
TPH-1005 Analyte(s): 1-Chlorooctadecane-surr Containers Supplied:	05/09/2024	05/09/2024 13:00	DIAC Total Petroleum Hydrocarbons (TPH), C6-C35
Sample ID: 24D3569-03 Marine Water Sampled: 04/25/2024 10:50			
TPH-1005 Analyte(s): 1-Chlorooctadecane-surr Containers Supplied:	05/09/2024	05/09/2024 10:50	OZAC Total Petroleum Hydrocarbons (TPH), C6-C35
Sample ID: 24D3569-04 Elutriate Sampled: 04/25/2024 13:35			
TPH-1005-ELUT Analyte(s): 1-Chlorooctadecane-surr Containers Supplied:	05/09/2024	05/09/2024 13:35	Leached: 05/01/2024 14:16 O3AB Total Petroleum Hydrocarbons (TPH), C6-C35
Sample ID: 24D3569-05 Elutriate Sampled: 04/25/2024 11:55			
TPH-1005-ELUT Analyte(s): 1-Chlorooctadecane-surr Containers Supplied:	05/09/2024	05/09/2024 11:55	Leached: 05/01/2024 14:16 O4AB Total Petroleum Hydrocarbons (TPH), C6-C35
Sample ID: 24D3569-06 Sediment Sampled: 04/25/2024 13:35			
TPH-1005 Analyte(s): 1-Chlorooctadecane-surr Containers Supplied:	05/09/2024	05/09/2024 13:35	O5A Total Petroleum Hydrocarbons (TPH), C6-C35



**SUBCONTRACT
ORDER**
(Continued)

Work Order: 24D3569 (Continued)

Analysis	Due	Expires	Comments
Sample ID: 24D3569-07 Sediment Sampled: 04/25/2024 11:55			
TPH-1005 <i>Analyte(s):</i> 1-Chlorooctadecane-surr	05/09/2024	05/09/2024 11:55	06A Total Petroleum Hydrocarbons (TPH), C6-C35
<i>Containers Supplied:</i>			

Released By [Signature]
Date 5/2/24
16:50

Received By ASMITA
B.B.C
IRG
ANS
Date 5/2/24
16:50



Sample Condition Checklist

A&B JobID : 24050335	Date Received : 05/02/2024	Time Received : 4:50PM		
Client Name : NWDLS				
Temperature : 3.8°C	Sample pH : NA			
Thermometer ID : IR5	pH Paper ID : NA			
Perservative :	Lot# :			
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.		X	
2.	Sample(s) in a cooler.	X		
3.	If yes, ice in cooler.	X		
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative	X		
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.	X		
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:
 Sx01-04= Water, Sx05-06= Sludge (COC shows sediment). ~ANS 05/02/24

Brought by : Client
 Received by : ASmith
 Check in by/date : ASmith / 05/02/2024

ab-s005-1123



908 North Temperance Ave. ▽ Clovis, CA 93611 ▽ Phone 559-275-2175 ▽ Fax 559-275-4422

Certification Number: CA1312 (DW & WW)
NELAP Certification number: CA00046 (HW)

May 29, 2024

North Water District Laboratory Services
130 S. Trade Center Parkway
Conroe, TX 77385

Attn: Monica O. Martin

Subject: Report of Data: Case 99246

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dear Ms. Martin,

Two soil samples for project “24D3569” were received April 30, 2024, at 4.4°C. Written results are provided on this May 29, 2024, for the requested analyses. All holding times were met.

For the EPA 8290 analysis, the samples were extracted according to the method. Fourteen analytes recovered above the upper control limits in the LCS and LCSD. The client was informed.

If you have any questions or require further information, please contact us at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

Paula McCartney, Laboratory Director
APPL, Inc.

PM/cm
Enclosure
cc: File

EPA 8290 - DIOXINS AND FURANS

North Water District Laboratory
 130 S. Trade Center Parkway
 Conroe, TX 77385

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Attn: Monica O. Martin

Project: 24D3569

ARF: 99246

Sample ID: 24D3569-06

APPL ID: BA50951

Sample Collection Date: 4/25/2024

QCG: \$8290S-275036-275036

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290	1,2,3,4,6,7,8-HPCDD	19	12.5	6.3DL	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,4,6,7,8-HPCDF	Not detected	12.5	0.82PC	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,4,7,8,9-HPCDF	Not detected	12.5	0.58DL	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,4,7,8-HXCDD	Not detected	12.5	1.2DL	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,4,7,8-HXCDF	Not detected	12.5	0.73DL	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,6,7,8-HXCDD	Not detected	12.5	1.3DL	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,6,7,8-HXCDF	Not detected	12.5	0.72DL	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,7,8,9-HXCDD	Not detected	12.5	1.3DL	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,7,8,9-HXCDF	Not detected	12.5	0.95DL	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,7,8-PECDD	Not detected	12.5	1.9DL	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,7,8-PECDF	Not detected	12.5	0.48DL	pg/g	5/8/2024	5/15/2024
EPA 8290	2,3,4,6,7,8-HXCDF	Not detected	12.5	0.72DL	pg/g	5/8/2024	5/15/2024
EPA 8290	2,3,4,7,8-PECDF	Not detected	12.5	0.47DL	pg/g	5/8/2024	5/15/2024
EPA 8290	2,3,7,8-TCDD	Not detected	5.0	1.0DL	pg/g	5/8/2024	5/15/2024
EPA 8290	2,3,7,8-TCDF	Not detected	5.0	1.7PC	pg/g	5/8/2024	5/15/2024
EPA 8290	OCDD	490	25.0	13DL	pg/g	5/8/2024	5/15/2024
EPA 8290	OCDF	Not detected	25.0	5.3PC	pg/g	5/8/2024	5/15/2024
EPA 8290	TEQ	0.34	NA			5/8/2024	5/15/2024
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	73.9	40-135		%	5/8/2024	5/15/2024
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	83.6	40-135		%	5/8/2024	5/15/2024
EPA 8290	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	100	40-135		%	5/8/2024	5/15/2024
EPA 8290	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	87.8	40-135		%	5/8/2024	5/15/2024
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	68.1	40-135		%	5/8/2024	5/15/2024
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	69.6	40-135		%	5/8/2024	5/15/2024
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDD (S)	68.2	40-135		%	5/8/2024	5/15/2024
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDF (S)	68.9	40-135		%	5/8/2024	5/15/2024
EPA 8290	SURROGATE: 13C-OCDD (S)	59.4	40-135		%	5/8/2024	5/15/2024

Quant Method: 240425_8290
Run #: 240511_HR_88
Instrument: Magneto
Sequence: 240511
Dilution Factor: 1
Initials: LA

Printed: 5/18/2024 10:24:37 AM
 Form 1 - APPL Standard GC - No MC

EPA 8290 - DIOXINS AND FURANS

North Water District Laboratory
130 S. Trade Center Parkway
Conroe, TX 77385

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Monica O. Martin

Project: 24D3569

ARF: 99246

Sample ID: 24D3569-07

APPL ID: BA50952

Sample Collection Date: 4/25/2024

QCG: \$8290S-275036-275036

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 8290	1,2,3,4,6,7,8-HPCDD	12 J	12.5	12PC	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,4,6,7,8-HPCDF	Not detected	12.5	0.22PC	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,4,7,8,9-HPCDF	Not detected	12.5	0.18DL	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,4,7,8-HXCDD	Not detected	12.5	0.57DL	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,4,7,8-HXCDF	Not detected	12.5	0.49DL	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,6,7,8-HXCDD	Not detected	12.5	0.58DL	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,6,7,8-HXCDF	Not detected	12.5	0.26PC	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,7,8,9-HXCDD	Not detected	12.5	0.76DL	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,7,8,9-HXCDF	Not detected	12.5	0.63DL	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,7,8-PECDD	Not detected	12.5	0.88DL	pg/g	5/8/2024	5/15/2024
EPA 8290	1,2,3,7,8-PECDF	Not detected	12.5	0.88PC	pg/g	5/8/2024	5/15/2024
EPA 8290	2,3,4,6,7,8-HXCDF	Not detected	12.5	0.48DL	pg/g	5/8/2024	5/15/2024
EPA 8290	2,3,4,7,8-PECDF	Not detected	12.5	0.29DL	pg/g	5/8/2024	5/15/2024
EPA 8290	2,3,7,8-TCDD	Not detected	5.0	0.57DL	pg/g	5/8/2024	5/15/2024
EPA 8290	2,3,7,8-TCDF	Not detected	5.0	1.8PC	pg/g	5/8/2024	5/15/2024
EPA 8290	OCDD	220	25.0	13DL	pg/g	5/8/2024	5/15/2024
EPA 8290	OCDF	Not detected	25.0	2.8PC	pg/g	5/8/2024	5/15/2024
EPA 8290	TEQ	0.19	NA			5/8/2024	5/15/2024
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	90.0	40-135		%	5/8/2024	5/15/2024
EPA 8290	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	92.6	40-135		%	5/8/2024	5/15/2024
EPA 8290	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	119	40-135		%	5/8/2024	5/15/2024
EPA 8290	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	105	40-135		%	5/8/2024	5/15/2024
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	79.1	40-135		%	5/8/2024	5/15/2024
EPA 8290	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	79.3	40-135		%	5/8/2024	5/15/2024
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDD (S)	81.9	40-135		%	5/8/2024	5/15/2024
EPA 8290	SURROGATE: 13C-2,3,7,8-TCDF (S)	78.6	40-135		%	5/8/2024	5/15/2024
EPA 8290	SURROGATE: 13C-OCDD (S)	66.9	40-135		%	5/8/2024	5/15/2024

J = Estimated value.

Quant Method: 240425_8290
Run #: 240511_HR_91
Instrument: Magneto
Sequence: 240511
Dilution Factor: 1
Initials: LA

Printed: 5/18/2024 10:24:37 AM
Form 1 - APPL Standard GC - No MC

Method Blank

EPA 8290 - DIOXINS AND FURANS

Blank Name/QCG: **240508S-50951 - 275036**
 Batch ID: \$8290S-275036

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
BLANK	1,2,3,4,6,7,8-HPCDD	Not detected	12.5	0.16PC	pg/g	5/8/2024	5/15/2024
BLANK	1,2,3,4,6,7,8-HPCDF	Not detected	12.5	0.073DL	pg/g	5/8/2024	5/15/2024
BLANK	1,2,3,4,7,8,9-HPCDF	Not detected	12.5	0.098DL	pg/g	5/8/2024	5/15/2024
BLANK	1,2,3,4,7,8-HXCDD	Not detected	12.5	0.22PC	pg/g	5/8/2024	5/15/2024
BLANK	1,2,3,4,7,8-HXCDF	Not detected	12.5	0.080PC	pg/g	5/8/2024	5/15/2024
BLANK	1,2,3,6,7,8-HXCDD	Not detected	12.5	0.095DL	pg/g	5/8/2024	5/15/2024
BLANK	1,2,3,6,7,8-HXCDF	Not detected	12.5	0.11PC	pg/g	5/8/2024	5/15/2024
BLANK	1,2,3,7,8,9-HXCDD	Not detected	12.5	0.10DL	pg/g	5/8/2024	5/15/2024
BLANK	1,2,3,7,8,9-HXCDF	Not detected	12.5	0.18DL	pg/g	5/8/2024	5/15/2024
BLANK	1,2,3,7,8-PECDD	Not detected	12.5	0.20PC	pg/g	5/8/2024	5/15/2024
BLANK	1,2,3,7,8-PECDF	Not detected	12.5	0.23PC	pg/g	5/8/2024	5/15/2024
BLANK	2,3,4,6,7,8-HXCDF	Not detected	12.5	0.14DL	pg/g	5/8/2024	5/15/2024
BLANK	2,3,4,7,8-PECDF	Not detected	12.5	0.16PC	pg/g	5/8/2024	5/15/2024
BLANK	2,3,7,8-TCDD	Not detected	5.0	0.12DL	pg/g	5/8/2024	5/15/2024
BLANK	2,3,7,8-TCDF	Not detected	5.0	0.13DL	pg/g	5/8/2024	5/15/2024
BLANK	OCDD	Not detected	25.0	0.36PC	pg/g	5/8/2024	5/15/2024
BLANK	OCDF	Not detected	25.0	0.22PC	pg/g	5/8/2024	5/15/2024
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	84.5	40-135		%	5/8/2024	5/15/2024
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	93.5	40-135		%	5/8/2024	5/15/2024
BLANK	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	117	40-135		%	5/8/2024	5/15/2024
BLANK	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	103	40-135		%	5/8/2024	5/15/2024
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	75	40-135		%	5/8/2024	5/15/2024
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	74.3	40-135		%	5/8/2024	5/15/2024
BLANK	SURROGATE: 13C-2,3,7,8-TCDD (S)	82.2	40-135		%	5/8/2024	5/15/2024
BLANK	SURROGATE: 13C-2,3,7,8-TCDF (S)	75.4	40-135		%	5/8/2024	5/15/2024
BLANK	SURROGATE: 13C-OCDD (S)	73.8	40-135		%	5/8/2024	5/15/2024

Quant Method: 240425_8290
Run #: 240511_HR_83
Instrument: Magneto
Sequence: 240511
Initials: LA

Laboratory Control Spike Recoveries

EPA 8290 - DIOXINS AND FURANS

APPL ID: **240508S-50951 LCS - 275036**
 Batch ID: #8290S-275036

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl pg/g	SPK Result pg/g	DUP Result pg/g	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,2,3,4,6,7,8-HPCDD	125	198	205	158 #	164 #	70-130	3.5	30
1,2,3,4,6,7,8-HPCDF	125	199	204	159 #	163 #	70-130	2.5	30
1,2,3,4,7,8,9-HPCDF	125	174	167	139 #	134 #	70-130	4.1	30
1,2,3,4,7,8-HXCDD	125	163	175	130	140 #	70-130	7.1	30
1,2,3,4,7,8-HXCDF	125	152	152	122	122	70-130	0.0	30
1,2,3,6,7,8-HXCDD	125	196	215	157 #	172 #	70-130	9.2	30
1,2,3,6,7,8-HXCDF	125	144	144	115	115	70-130	0.0	30
1,2,3,7,8,9-HXCDD	125	180	195	144 #	156 #	70-130	8.0	30
1,2,3,7,8,9-HXCDF	125	156	143	125	114	70-130	8.7	30
1,2,3,7,8-PECDD	125	174	191	139 #	153 #	70-130	9.3	30
1,2,3,7,8-PECDF	125	181	200	145 #	160 #	70-130	10.0	30
2,3,4,6,7,8-HXCDF	125	153	165	122	132 #	70-130	7.5	30
2,3,4,7,8-PECDF	125	171	191	137 #	153 #	70-130	11.0	30
2,3,7,8-TCDD	50.0	63.7	67.7	127	135 #	70-130	6.1	30
2,3,7,8-TCDF	50.0	78.3	81.9	157 #	164 #	70-130	4.5	30
OCDD	250	359	391	144 #	156 #	70-130	8.5	30
OCDF	250	362	417	145 #	167 #	70-130	14.1	30

SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (	500	487	409	97.4	81.8	40-135		
SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (	500	505	425	101	85.0	40-135		
SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S	500	621	504	124	101	40-135		
SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S	500	567	460	113	92.0	40-135		
SURROGATE: 13C-1,2,3,7,8-PECDD (S)	200	161	136	80.5	68.0	40-135		
SURROGATE: 13C-1,2,3,7,8-PECDF (S)	200	161	136	80.5	68.0	40-135		
SURROGATE: 13C-2,3,7,8-TCDD (S)	200	168	148	84.0	74.0	40-135		

= Recovery is outside QC limits.

Comments: _____

Primary	SPK	DUP
Quant Method :	240425_8290	240425_8290
Extraction Date :	5/8/2024	5/8/2024
Analysis Date :	5/15/2024	5/15/2024
Instrument :	Magneto	Magneto
Run :	240511_HR_81	240511_HR_82
Initials :	LA	

Laboratory Control Spike Recoveries

EPA 8290 - DIOXINS AND FURANS

APPL ID: 240508S-50951 LCS - 275036

Batch ID: #8290S-275036

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl pg/g	SPK Result pg/g	DUP Result pg/g	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
SURROGATE: 13C-2,3,7,8-TCDF (S)	200	150	135	75.0	67.5	40-135		
SURROGATE: 13C-OCDD (S)	1000	844	699	84.4	69.9	40-135		

= Recovery is outside QC limits.

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	240425_8290	240425_8290
Extraction Date :	5/8/2024	5/8/2024
Analysis Date :	5/15/2024	5/15/2024
Instrument :	Magneto	Magneto
Run :	240511_HR_81	240511_HR_82
Initials :	LA	



24E0012

SUBCONTRACT ORDER

Sending Laboratory:

North Water District Laboratory Services, Inc.
 130 South Trade Center Parkway
 Conroe, TX 77385
 Phone: 936-321-6060
 Fax: 936-321-6061

Project Manager: Monica O. Martin

Subcontracted Laboratory:

Agri & Pri Pol Lab, Inc. (APPL)
 908 North Temperance Avenue
 Clovis, CA 93611
 Phone: (559) 275-2175
 Fax:

Work Order: 24D3569

Analysis	Due	Expires	Comments
----------	-----	---------	----------

Sample ID: 24D3569-06 *Sediment* **Sampled: 04/25/2024 13:35**


Sub_Dioxin-Furan 05/09/2024 05/02/2024 13:35

Containers Supplied:

Sample ID: 24D3569-07 *Sediment* **Sampled: 04/25/2024 11:55**

Sub_Dioxin-Furan 05/09/2024 05/02/2024 11:55

Containers Supplied:


 Released By _____ Date 04.30.24

UPS
 Received By _____ Date 04.30.24

Christina Aguilera - Appl Inc.
 954 IRB-4.4^{oc} 5/1/24



May 08, 2024

Service Request No:K2404513

Monica Martin
North Water District Lab Services (NWDLS)
130 South Trade Center Parkway
Conroe, TX 77385

Laboratory Results for: 24D3569

Dear Monica,

Enclosed are the results of the sample(s) submitted to our laboratory May 02, 2024
For your reference, these analyses have been assigned our service request number **K2404513**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3260. You may also contact me via email at Luke.Rahn@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

for Luke Rahn
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Client: North Water District Lab Services (NWDLS)
Project: 24D3569
Sample Matrix: Sediment

Service Request: K2404513
Date Received: 05/02/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Two sediment samples were received for analysis at ALS Environmental on 05/02/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

General Chemistry:

No significant anomalies were noted with this analysis.

A handwritten signature in black ink, appearing to read 'Paul Baker', is written over a horizontal line.

Approved by _____

Date 05/08/2024



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: 24D3569-06	Lab ID: K2404513-001					
------------------------------	-----------------------------	--	--	--	--	--

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	0.45		0.005	0.10	Percent	9060

CLIENT ID: 24D3569-07	Lab ID: K2404513-002					
------------------------------	-----------------------------	--	--	--	--	--

Analyte	Results	Flag	MDL	MRL	Units	Method
Carbon, Total Organic (TOC)	0.37		0.005	0.10	Percent	9060



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: North Water District Lab Services (NWDLS)
Project: 24D3569

Service Request:K2404513

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2404513-001	24D3569-06	4/25/2024	1335
K2404513-002	24D3569-07	4/25/2024	1155



K2404513
**SUBCONTRACT
ORDER**

Sending Laboratory:

Subcontracted Laboratory:

North Water District Laboratory Services, Inc.
130 South Trade Center Parkway
Conroe, TX 77385
Phone: 936-321-6060
Fax: 936-321-6061

Project Manager: Monica O. Martin

ALS Kelso
1317 South 13th Avenue
Kelso, WA 98626
Phone: (360) 577-7222
Fax:

Work Order: 24D3569

Analysis	Due	Expires	Comments
----------	-----	---------	----------

Sample ID: 24D3569-06 Sediment Sampled: 04/25/2024 13:35

TOC-9060 05/09/2024 05/23/2024 13:35

Analyte(s):
Total Organic Carbon (TOC)

Containers Supplied:

Sample ID: 24D3569-07 Sediment Sampled: 04/25/2024 11:55

TOC-9060 05/09/2024 05/23/2024 11:55

Analyte(s):
Total Organic Carbon (TOC)

Containers Supplied:

AMA
Released By

05.01.24
Date

UPS
Received By

05.01.24
Date

Rec: Vandy M... ALS
5/2/24 09:15

Cooler Receipt and Preservation Form

Client NWDL Service Request K24 04513
 Received: 5/2/24 Opened: 5/2/24 By: VM Unloaded: 5/2/24 By: VM

1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
 2. Samples were received in: (circle) Cooler Box Envelope Other NA
 3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 Front
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
	<u>2.2</u>	<u>IR06</u>				<u>1Z12W400019542</u> <u>7912</u>	

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:
 If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
 5. Were samples received within the method specified temperature ranges? NA Y N
 If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N
 If applicable, tissue samples were received: Frozen Partially Thawed Thawed
 6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves
 7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
 8. Were samples received in good condition (unbroken) NA Y N
 9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
 10. Did all sample labels and tags agree with custody papers? NA Y N
 11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
 13. Were VOA vials received without headspace? Indicate in the table below. NA Y N
 14. Was C12/Res negative? NA Y N
 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N
 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
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www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: North Water District Lab Services (NWDLS)
Project: 24D3569/

Service Request: K2404513

Sample Name: 24D3569-06
Lab Code: K2404513-001
Sample Matrix: Sediment

Date Collected: 04/25/24
Date Received: 05/2/24

Analysis Method
9060

Extracted/Digested By
NJIMENEZARENAS

Analyzed By
NJIMENEZARENAS

Sample Name: 24D3569-07
Lab Code: K2404513-002
Sample Matrix: Sediment

Date Collected: 04/25/24
Date Received: 05/2/24

Analysis Method
9060

Extracted/Digested By
NJIMENEZARENAS

Analyzed By
NJIMENEZARENAS



Sample Results

ALS Environmental—Kelso Laboratory
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Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



General Chemistry

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: North Water District Lab Services (NWDLS)
Project: 24D3569
Sample Matrix: Sediment
Sample Name: 24D3569-06
Lab Code: K2404513-001

Service Request: K2404513
Date Collected: 04/25/24 13:35
Date Received: 05/02/24 09:15
Basis: Dry, per Method

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Carbon, Total Organic (TOC)	9060	0.45	Percent	0.10	0.005	1	05/07/24 10:39	05/07/24	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: North Water District Lab Services (NWDLS)
Project: 24D3569
Sample Matrix: Sediment
Sample Name: 24D3569-07
Lab Code: K2404513-002

Service Request: K2404513
Date Collected: 04/25/24 11:55
Date Received: 05/02/24 09:15
Basis: Dry, per Method

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Carbon, Total Organic (TOC)	9060	0.37	Percent	0.10	0.005	1	05/07/24 10:39	05/07/24	



QC Summary Forms

ALS Environmental—Kelso Laboratory
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General Chemistry

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: North Water District Lab Services (NWDLS)
Project: 24D3569
Sample Matrix: Sediment
Sample Name: Method Blank
Lab Code: K2404513-MB

Service Request: K2404513
Date Collected: NA
Date Received: NA

Basis: Dry, per Method

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Carbon, Total Organic (TOC)	9060	ND U	Percent	0.10	0.005	1	05/07/24 10:39	05/07/24	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: North Water District Lab Services (NWDLS)
Project: 24D3569
Sample Matrix: Sediment

Service Request: K2404513
Date Collected: 04/25/24
Date Received: 05/02/24
Date Analyzed: 05/7/24
Date Extracted: 05/7/24

Duplicate Matrix Spike Summary
Carbon, Total Organic (TOC)

Sample Name: 24D3569-06
Lab Code: K2404513-001
Analysis Method: 9060
Prep Method: Method

Units: Percent
Basis: Dry, per Method

Analyte Name	Sample Result	Matrix Spike K2404513-001MS			Duplicate Matrix Spike K2404513-001DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Carbon, Total Organic (TOC)	0.45	2.76	2.41	96	2.74	2.44	94	70-122	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: North Water District Lab Services (NWDLS)
Project: 24D3569
Sample Matrix: Sediment

Service Request: K2404513
Date Collected: 04/25/24
Date Received: 05/02/24
Date Analyzed: 05/07/24

Replicate Sample Summary
General Chemistry Parameters

Sample Name: 24D3569-06
Lab Code: K2404513-001

Units: Percent
Basis: Dry, per Method

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample K2404513-001DUP Result, Average, RPD, RPD Limit. Row 1: Carbon, Total Organic (TOC), 9060, 0.10, 0.005, 0.45, 0.44, 0.445, 2, 20.

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: North Water District Lab Services (NWDLS)
Project: 24D3569
Sample Matrix: Sediment

Service Request: K2404513
Date Analyzed: 05/07/24
Date Extracted: 05/07/24

Lab Control Sample Summary
Carbon, Total Organic (TOC)

Analysis Method: 9060
Prep Method: Method

Units: Percent
Basis: Dry, per Method
Analysis Lot: 840092

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K2404513-LCS	3.24	2.99	108	72-122

Attachment 3
Photograph Log



08-15-23
CPC-01-SC-230815
0853

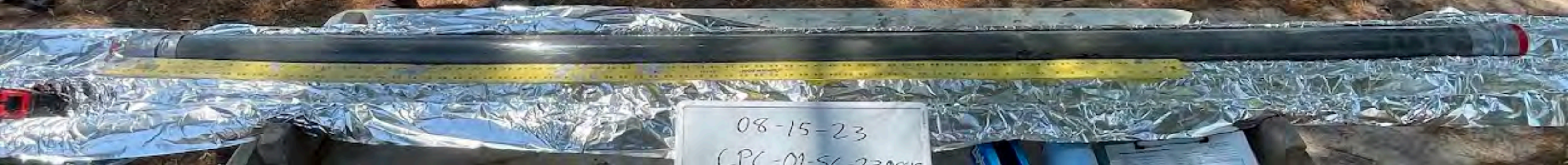


Reynolds Wrap



08-15-23
LPC-01-SC-230815
0853
Bottom —————> TOP





08-15-23
LPC-02-5C-230815
0953
Bottom —————> TOP





08-15-23
LPC-02-SC-230815
0953
Bottom _____ TOP



UNKNOWN

00953

TOP

CPC-02-SC-230815

08-15-23

LIBRANDE





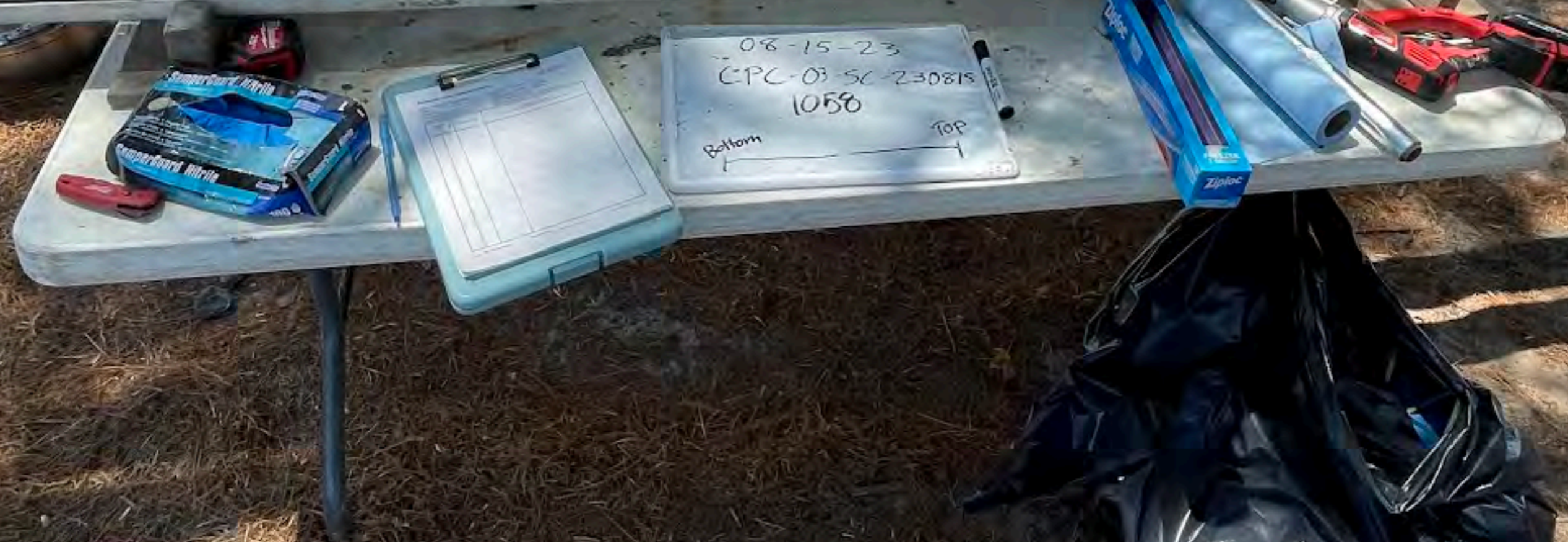
08 15-23
CPC-03-SC-230815
1058
Bottom | Top

SuperGuard White
GLOVES
1007184



Ziploc
Ziploc







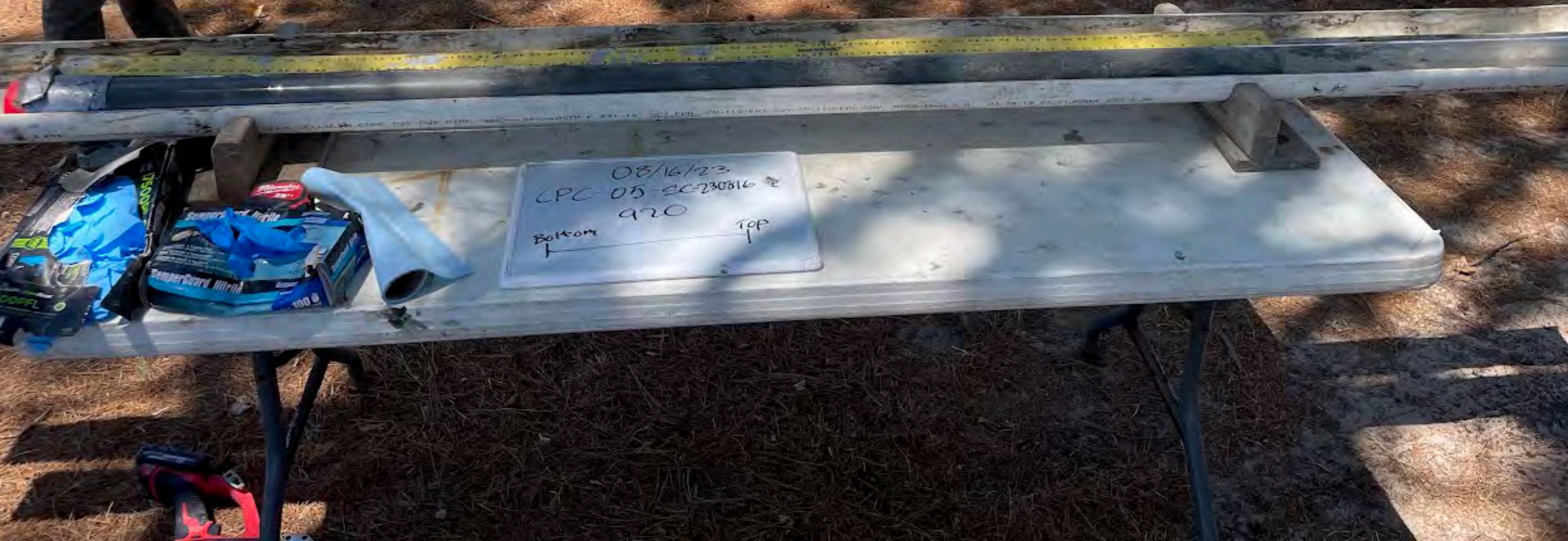
03 15 23
CPC-04-SC-230815
1145
Bottom Top

PowerGuard 1000

Ziploc



08-15-23
CPC-04-SC-230815
1145
Bottom ———— TOP



08/16/23
CPC-05-SC230816
920
Bottom Top



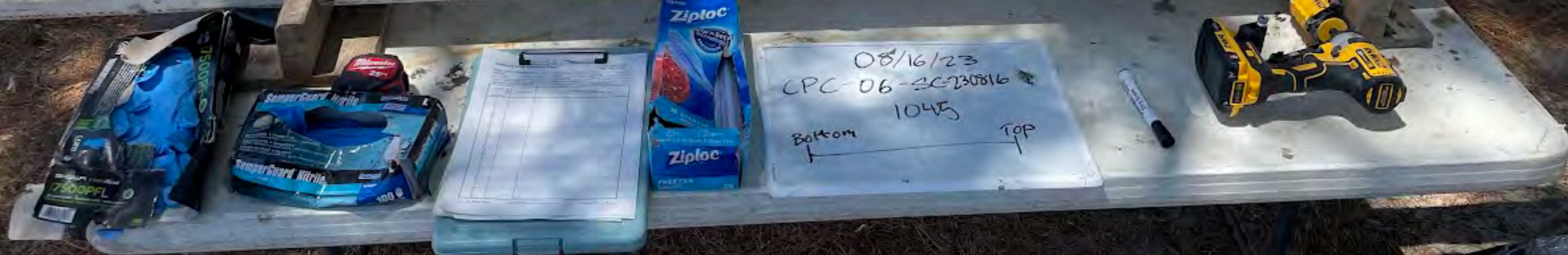


08/16/23
 CPC-05-SC-230816
 920

Bottom | TOP

7500PFL
 SemperGuard Ultra
 100





08/16/23
CPC-06-SC-230816
1045
Bottom Top



08/16/23
CPC-06-EC-230816
1045
Bottom Top



08/16/23
LPC-07-SC230816
1130
Bottom Top

Attachment 4

Field Logs

Daily Log



Anchor OEA, LLC
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone 206.287.9130 Fax 206.287.9131

PROJECT NAME Cedar Port - Galveston Bay

DATE: 8/16/23

SITE ADDRESS:

PERSONNEL: ES

WEATHER: Sunny, hot, breezy (12mph) WIND FROM: N NE E SE SW W NW LIGHT MEDIUM HEAVY
 SUNNY CLOUDY RAIN ? TEMPERATURE: 80 °F °C
(Enter appropriate units)

TIME	COMMENTS
7:30	Met up with Benchmark at boat ramp - H+S chet
7:00 7:50	Launched boat
8:45	Arrived at CPC-05
8:50	sample: Water samples collected for CPC-05
8:20 9:20	Sediment sample collected for CPC-05
9:55	Arrived at CPC-06
10:05	Water samples collected for CPC-06
10:10	began taking on water → bilge pump couldn't keep up w/ waves overtopping or theres a hole somewhere
10:20	Drove to other side of island and pulled up to land to check plugs + pump, and let pump catch up
10:30	Returned to CPC-06 to collect sediment
11:00	arrived at CPC-07
11:10	collected CPC-07 water samples
11:30	Collected CPC-07 sediment
12:15	Left Left CPC-07 → return to launch
12: 00 30	Arrived back at launch
1248	Processed CPC-05
1303	Processed CPC-06
1320	Processed CPC-07
1330	Cleaned + broke down processing area
1400	COC + sample inventory

Signature: Elyahit Stewart

Daily Log



Anchor OEA, LLC
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone 206.287.9130 Fax 206.287.9131

PROJECT NAME Cedar Port - Galveston Bay

DATE: 8/15/23

SITE ADDRESS: _____

PERSONNEL: ES

WEATHER: sunny, hot, humid WIND FROM:

N	NE	E	SE	S	SW	W	<u>NW</u>
SUNNY	CLOUDY	RAIN					?

 LIGHT: _____ MEDIUM: _____ HEAVY: _____ TEMPERATURE: 85 °F [Circle appropriate units]

TIME	COMMENTS
7:00	met BEST at boat ramp
7-7:15	BESI prepared boat, AQ organized glassware
7:30	H+S talk - HASP + Daily safety
7:50	launched boat - collecting water samples first in numerical order
8:15	Arrived at CPC-01
8:27	Collected CPC-01 water samples
8:38	finished CPC-01 water collection
8:53	collected CPC-01 sediment core
9:15	Moved to CPC-02 location
9:33	Collected water samples → missed a CPC-01 jar → will back track
9:53	Collected CPC-02 sediment core
10:15	Returned to CPC-01 to collect missed water samples
10:26	Moved to CPC-03
10:44	collected water samples for CPC-03
10:50	YSI testing
10:58	Collected CPC-03 sediment core
11:15	Moved to CPC-04
11:19	collected CPC-04 water samples
11:45	collected CPC-04 water sediment samples
12:30	Returned to boat boat ramp
12:30-13:15	Lunch break / set up processing area
13:15	Processed CPC-01-SC-230815
13:35	Processed CPC-02-SC-230815
14:00	Processed CPC-03-SC-230815
14:20	Processed CPC-04+SC-230815
14:30	Equipment blank (for sediment)
14:30	Cleaned + broke down processing area

Signature: _____

Elysha Stewart

Sediment Core Collection Form



Project Cedar Port Channel Project
 Station ID CPC-01
 Type of Core _____
 Mudline Elevation (ft MLLW) _____
 Project Depth+Overdepth (ft MLLW) _____

Date 8/15/23 Time _____
 Latitude _____ Longitude _____
 Water Depth (ft) 205 Tide (ft) _____
 Target Core Length (ft) _____
 Penetration Length (ft) _____ Core Recovery (ft) _____

Depth In Actual (ft.) Core Sections	Sample Interval	Classification and Remarks (Color, Consistency, Moisture, Grain Size, Sheen, Odor)
1		gray-brown soft fine silt
2		
3		
4		silt with some soft clay → gray-brown - fine low plasticity
5		progressively more clay
6		
7		soft clay medium plasticity
8		
9		

Sediment Core Collection Form



Project Cedar Port Channel Project
 Station ID CPC-02
 Type of Core _____
 Mudline Elevation (ft MLLW) _____
 Project Depth+Overdepth (ft MLLW) _____

Date 8/15 Time 0953
 Latitude _____ Longitude _____
 Water Depth (ft) _____ Tide (ft) _____
 Target Core Length (ft) 8
 Penetration Length (ft) 7.8 Core Recovery (ft) 7.8

Depth In Actual Core Sections (ft.)	Sample Interval	Classification and Remarks (Color, Consistency, Moisture, Grain Size, Sheen, Odor)
1 2 3 4 5 6 7 8 9		<p>Silt sand (very fine sand) with silt brown-gray with some very low plasticity - slight petroleum/hydrocarbon odor</p> <p>shell hash</p> <p>Large (~quarter sized) bivalve shells >50% 7.8</p>

Sediment Core Collection Form



Project Cedar Port Channel Project
 Station ID CPC-03
 Type of Core _____
 Mudline Elevation (ft MLLW) _____
 Project Depth+Overdepth (ft MLLW) _____

Date 8/15/23 Time 1058
 Latitude _____ Longitude _____
 Water Depth (ft) _____ Tide (ft) _____
 Target Core Length (ft) 8
 Penetration Length (ft) 7.7 Core Recovery (ft) 7.7

Depth In (ft.) Actual Core Sections		Sample Interval	Classification and Remarks (Color, Consistency, Moisture, Grain Size, Sheen, Odor)
1			very fine soft brown-gray silt with trace fine sand
2			↓ progressively more sandy
3			sandy fine silty sand (brown/gray)
4			↓
5			↓
6			shells ↳ bivalves
7			↓
7.7			↓
8			
9			

Sediment Core Collection Form



Project Cedar Port Channel Project

Date 8/15 Time 1145

Station ID CPC-04

Latitude _____ Longitude _____

Type of Core _____

Water Depth (ft) _____ Tide (ft) _____

Mudline Elevation (ft MLLW) _____

Target Core Length (ft) 8 ft

Project Depth+Overdepth (ft MLLW) _____

Penetration Length (ft) 70 Core Recovery (ft) 7.0

Depth In Actual (ft.) Core Sections	Sample Interval	Classification and Remarks (Color, Consistency, Moisture, Grain Size, Sheen, Odor)
1		soft silty - brown/gray with with some orange mixed in
2		
3		soft silty - brown gray some low plasticity
4		
5		
6		red / yellow clay mottling in gray/brown silty clay
7		
8		
9		

2 No. Photos Taken

Recorded By: E. Stewart

Attempt No. ____ of ____

Sediment Core Collection Form



Project Cedar Port Channel Project

Date 8/16/23 Time 920

Station ID CPC-005

Latitude _____ Longitude _____

Type of Core _____

Water Depth (ft) _____ Tide (ft) _____

Mudline Elevation (ft MLLW) _____

Target Core Length (ft) ~~6.6 ft~~ 8 ft

Project Depth+Overdepth (ft MLLW) _____

Penetration Length (ft) 6.6 ft Core Recovery (ft) 6.6 ft

Depth In Actual (ft.) Core Sections	Sample Interval	Classification and Remarks (Color, Consistency, Moisture, Grain Size, Sheen, Odor)
1		soft fine silt gray/brown - wet
2		
3		
4	trace shell fragments	soft fine silt with very low plasticity - gray/brown, wet to moist
5		med-low plasticity clay gray/brown - moist
6		
7		
8		
9		

2 No. Photos Taken

Recorded By: E. Stewart

Attempt No. _____ of _____

Sediment Core Collection Form



Project Cedar Port Channel Project
 Station ID CPC-06
 Type of Core _____
 Mudline Elevation (ft MLLW) _____
 Project Depth+Overdepth (ft MLLW) _____

Date 8/16/23 Time 1045
 Latitude _____ Longitude _____
 Water Depth (ft) _____ Tide (ft) _____
 Target Core Length (ft) 8ft
 Penetration Length (ft) 7.6 Core Recovery (ft) 7.6

Depth In Actual (ft.) Core Sections	Sample Interval	Classification and Remarks (Color, Consistency, Moisture, Grain Size, Sheen, Odor)
1		- gray brown silt w/ some - clay particles → / pea sized balls / ↳ wet
2		
3		- low plasticity silty clay gray/brown ↳ wet/moist
4		
5		med- low plasticity clay gray/brown. ↳ moist
6		
7		
8		
9		

76 ft

2 No. Photos Taken

Recorded By: E. Stewart

Attempt No. ___ of ___

Sediment Core Collection Form



Project Cedar Port Channel Project
 Station ID ~~07~~ CPC-07
 Type of Core _____
 Mudline Elevation (ft MLLW) _____
 Project Depth+Overdepth (ft MLLW) _____

Date 8/16/23 Time 1130
 Latitude _____ Longitude _____
 Water Depth (ft) _____ Tide (ft) _____
 Target Core Length (ft) 8 ft
 Penetration Length (ft) 4.5 Core Recovery (ft) 4.5

Depth In Actual Core Sections (ft.)	Sample Interval	Classification and Remarks (Color, Consistency, Moisture, Grain Size, Sheen, Odor)
1		<p style="text-align: center;">soft fine silt, gray, wet</p>
2		
3		<p style="text-align: center;">lean clay - gray, soft, low-med plasticity ↳ moist</p>
4		
4.5 ft		
5		
6		
7		
8		
9		

2 No. Photos Taken

Recorded By: E. Stewart

Attempt No. ____ of ____



Sediment Core Collection Log

Job: Cedar Port Channel Project
 Job No: 222823-01
 Field Staff: ES
 Contractor: BESS
 Vertical Datum:

Station ID: A CPC-01
 Attempt No. 1
 Date: 8/15 8:53
 Logged By: ES
 Horizontal Datum:

Field Collection Coordinates:
 Lat/Northing: 15N 8281650.07M Long/Easting: 312217.64 m E ± 7.5 ft

A. Water Depth

DTM Depth Sounder:

DTM Lead Line:

5 ft 9 in.
(8:23 am)

B. Lake Level Measurements

Time:

Height:

C. Mudline Elevation

Core Collection Recovery Details:

Core Accepted: Yes / No

Core Tube Length:

8 ft

Drive Penetration:

Headspace Measurement:

Recovery Measurement:

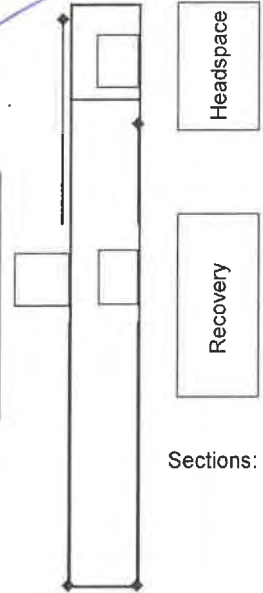
6.4 ft

Recovery Percentage:

Total Length of Core To Process:

5.75 ft - 1.24 ft

7.51 ft
MLLW



Drive Notes:

drove to refusal. ~6.4 ft

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

gray-brown silty sand silt w/ clay at bottom

Notes:



Sediment Core Collection Log

Page __ of __

Job: Cedar Port Channel Project
 Job No: 222823-01
 Field Staff: ES
 Contractor: BESTI
 Vertical Datum:

Station ID: CPC-2
 Attempt No: 1
 Date: 8/15/23
 Logged By: ES
 Horizontal Datum:

Field Collection Coordinates:

Lat/Northing: 3281898.99m N

Long/Easting: 313 327.88m E ± 10ft

A. Water Depth

DTM Depth Sounder:

DTM Lead Line: 7.0 - 1.19A

B. Lake Level Measurements

Time:

Height:

C. Mudline Elevation

Core Collection Recovery Details:

Core Accepted: Yes / No

Core Tube Length: 8 ft.

Drive Penetration:

Headspace Measurement:

Recovery Measurement: 7.8 ft

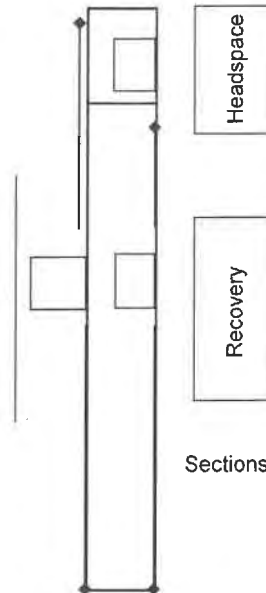
Recovery Percentage:

Total Length of Core To Process: 8 ft

↳ = 5.81 ft MLLW

Drive Notes:

wrench broke → pulled out using boat



Sections:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

gray-brown soft silt

Notes:



Sediment Core Collection Log

Job: Cedar Port Channel Project
 Job No: 222823-01
 Field Staff: ES
 Contractor: BESI
 Vertical Datum:

Station ID: CPC-03
 Attempt No. 1
 Date: 8/15/23
 Logged By: ES
 Horizontal Datum:

Field Collection Coordinates:

Lat/Northing: 3280568.37 MN

Long/Easting: 3122773.56 ME ± 10ft

A. Water Depth

DTM Depth Sounder:

DTM Lead Line: 7.5ft - 1.06

B. Lake Level Measurements

Time:

Height:

= 59 ft MLLW

C. Mudline Elevation

Core Collection Recovery Details:

Core Accepted: Yes No

Core Tube Length: 8ft

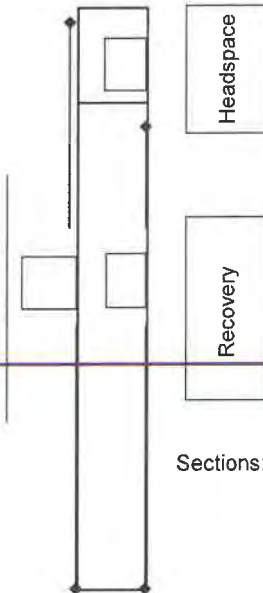
Drive Penetration:

Headspace Measurement:

Recovery Measurement: 7.7ft

Recovery Percentage:

Total Length of Core To Process:



Drive Notes:

wrench not working - pulled w/ boat

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Bottom gray-brown silty with some light brown silt on top ~ 2 inches

Notes:

YSI = 31.14 °C 607 DO $\frac{mg}{L}$
31.43 ms/cm 7.93 pH
20.43 TDS $\frac{g}{L}$ -59.5 pH mV
19.42 Sal 20.5 ORP



Sediment Core Collection Log

Page ___ of ___

Job: Cedar Port Channel Project
 Job No: 222823-01
 Field Staff: ES
 Contractor: BESI
 Vertical Datum:

Station ID: CPC-04
 Attempt No: 1
 Date:
 Logged By: ES
 Horizontal Datum:

Field Collection Coordinates:
 Lat/Northing: 3279671.22mN

Long/Easting: 312087.94 mE ± 10ft

A. Water Depth

DTM Depth Sounder:
 DTM Lead Line: 6.1-1.04ft
ft = 5.06 mLLD

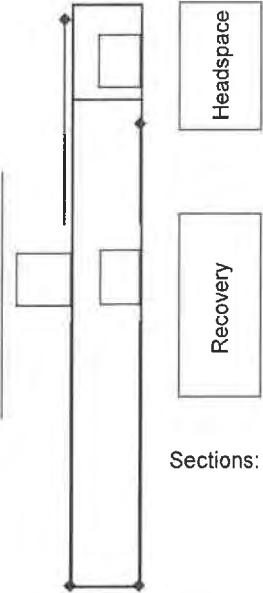
B. Lake Level Measurements

Time:
 Height:

C. Mudline Elevation

Core Collection Recovery Details:

Core Accepted: Yes / No
 Core Tube Length: 8A
 Drive Penetration:
 Headspace Measurement:
 Recovery Measurement: 7.0ft
 Recovery Percentage:
 Total Length of Core To Process:



Drive Notes:

Sections:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

gray-brown silt top ~4 feet, red-yellow silt bottom ~3 ft

Notes:

WTI : 31.25°C 101.4 DO%
31.35 ms/cm 7.11 DO mb/L 262.5 ORP
20.37 TDS% 8.43 pH
19.36 Sal -24.9 pH mV



Sediment Core Collection Log

Page ___ of ___

Job: Cedar Port Channel Project
 Job No: 222823-01
 Field Staff: ES
 Contractor: BESI
 Vertical Datum: _____

Station ID: CPC-05
 Attempt No. 1
 Date: 8/16/23 9:05-9:20
 Logged By: ES
 Horizontal Datum: _____

Field Collection Coordinates:
 Lat/Northing: 3278556.08 mN

Long/Easting: 314586.40 mE @ 18 ft offset

A. Water Depth

DTM Depth Sounder: _____
 DTM Lead Line: 9.7 ft

B. Lake Level Measurements

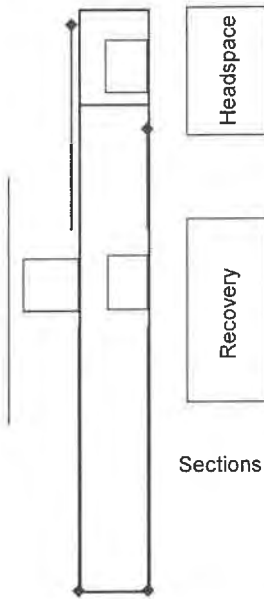
Time: _____
 Height: _____

C. Mudline Elevation

Core Collection Recovery Details:

Core Accepted: Yes / No
 Core Tube Length: 8 ft
 Drive Penetration: 6.6 ft
 Headspace Measurement: _____
 Recovery Measurement: 6.6 ft
 Recovery Percentage: _____
 Total Length of Core To Process: 6.6 ft

-1.23 ft = 8.47 ft MLLW below



Drive Notes:

6.6 ft refusal
hit clay

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

• dredging operations nearby → dredge discharge
 • choppy → 1-2 ft waves, hard to stay on target → larger offset
 Pipeline

gray soft sed. with clay on bottom

Notes:

YS I 30.16 °C 741 DO% 134.9 ORP
30.84 m/s/cm 5.03 DO m³/L
20.04 TDS% 8.34 pH
19.04 Sal -90.1 pH mV



Sediment Core Collection Log

Page ___ of ___

Job: Cedar Port Channel Project
 Job No: 222823-01
 Field Staff: ES
 Contractor: BEST
 Vertical Datum:

Station ID: CPC-06
 Attempt No. 1
 Date: 8/16/23 1045
 Logged By: ES
 Horizontal Datum:

Field Collection Coordinates:
 Lat/Northing: 3275368.90

Long/Easting: 315244.43 off set: 10 ft

A. Water Depth

DTM Depth Sounder:
 DTM Lead Line: 10.4 ft -1.3 ft

B. Lake Level Measurements

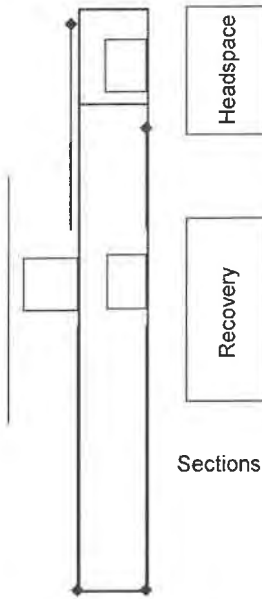
Time:
 Height:

C. Mudline Elevation

Core Collection Recovery Details:

Core Accepted: Yes / No
 Core Tube Length: 8 ft
 Drive Penetration: 7.6 ft
 Headspace Measurement:
 Recovery Measurement: 7.6 ft
 Recovery Percentage:
 Total Length of Core To Process: 7.6 ft

= 9.0 ft below



Drive Notes:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

-choppy conditions

Notes:

YSE: 30.43 °C 93.7 DO % 14.3 ORP
32.91 ms/cm 6.27 DO mg/L
24.39 TDS % 8.62 pH
20.45 sal -94.5 pH mV



Sediment Core Collection Log

Job: Cedar Port Channel Project
 Job No: 222823-01
 Field Staff: ES
 Contractor: BEST
 Vertical Datum:

Station ID: CPC-07
 Attempt No.
 Date: 8/16/23 11:30
 Logged By: ES
 Horizontal Datum:

Field Collection Coordinates:
 Lat/Northing: 3272185.67N M

Long/Easting: 3559520 E M ES

A. Water Depth

DTM Depth Sounder:
 DTM Lead Line: 10.8ft → 1.03

B. Lake Level Measurements

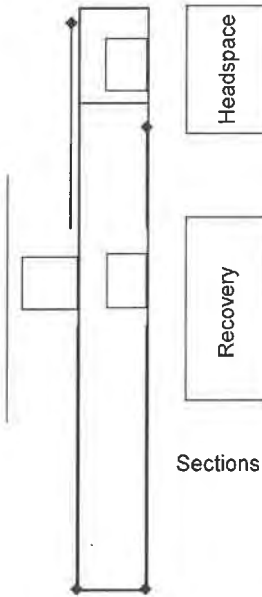
Time:
 Height:

C. Mudline Elevation

Core Collection Recovery Details:

Core Accepted: Yes / No
 Core Tube Length: 3A
 Drive Penetration:
 Headspace Measurement:
 Recovery Measurement: 4.5 ft
 Recovery Percentage:
 Total Length of Core To Process: 4.5 ft

AT = 9.17 ft mllw



Drive Notes:

choppy conditions → 4 failed attempts → wave action kept pushing core over, boat unsteady during driving
 * first four attempts not recorded
 < 4ft of sed. → lean clay layer

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

soft gray sediment, fine, wet to moist

Notes:

YSI: - 36.40°C	101.2 DO %	201.0 ORP
331 mS/cm	676 DO mg/L	
21.76 TDS %	5.76 pH	
20.46 sal	-107.7 pH mV	



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe TX 77385
(936) 321-6060 - lab@nwdlis.com

TCEQ T104704238-23-39

23H3257~

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23H3257

Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:	
Project Comments:					

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-02	SW-230815 CPC-01-SW-230815	8:27 8/15/23	8:38 8/15/23	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass 250mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl pH<2 O Glass VOA 40mL HCl pH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200 HNO3 OCF-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Pref 4°C TOC-5310 C H2SO4 4°C	

Field Remarks:

Preservation: H2SO4
 Circle and Write ID) 2108097 HNO3 Other: _____
2308097

Sampler (Signature) <i>E. Steward</i>	Relinquished By: (Signature)	Received By: (Signature)	Date/Time
Print Name E. Steward	Relinquished By: (Signature)	Received By: (Signature)	Date/Time
Affiliation AQ	Relinquished To Lab By: (Signature) <i>E. Steward</i>	Received for Laboratory By: (Signature) <i>RCR</i>	Date/Time 8-17-23

Custody Seal: Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____ °C

Container Intact: Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____

Anchor

wko_NWDLIS_COC2_nobate_LS version 4: 02/21/2021



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe TX 77385
(936) 321-6060 -lab@nwdlis.com

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23H3257~

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23H3257

Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:			
Project Comments:							
Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
					P Glass VOA 40mL HCl pH<2 Q Amber Glass 1L w/ Teflon-lined Lid R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid	HNO3 NAOH	
Field Remarks:							
Preservation: H2SO4 HNO3 NAOH Other:							
Circle and Write ID)							
Sampler (Signature)	<i>E. Stewart</i>	Relinquished By: (Signature)		Date/Time	Received By: (Signature)	Date/Time	
Print Name	E. Stewart	Relinquished By: (Signature)		Date/Time	Received By: (Signature)	Date/Time	
Affiliation	AAQ	Relinquished To Lab By: (Signature)	<i>E. Stewart</i>	Date/Time	Received for Laboratory By: (Signature)	Date/Time	8-17-23 1113
Custody Seal:	Yes / No	COC Labels Agree:	Yes / No	Appropriate Volume:	Yes / No	Received on Ice:	Yes / No
Container Intact:	Yes / No	Appropriate Containers:	Yes / No	Coolers Intact:	Yes / No	Samples Accepted:	Yes / No
						Temperature:	°C
						Thermometer ID:	



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy., Conroe Tx 77385
(936) 321-6060 - lab@nwdlsl.com

TCEQ T104704238-23-39

23H3257~

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23H3257

Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:	
Project Comments:					

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-03	CPC-02-SW-230815 CPC-02-SW-230815	9:33 8/15/23	9:43 8/15/23	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass 250mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl O Glass VOA 40mL HCl pH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20H HNO3 Zinc KED D ICPMS 200. HNO3 4°C 4°C 4°C 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Pref 4°C TOC-5310 C H2SO4 4°C	Type text here

Field Remarks:

Preservation: H2SO4 NaOH
 Circle and Write ID) 2108097 230815

Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Received By: (Signature)	Date/Time
Print Name <i>E. Stewart</i>	Relinquished By: (Signature)	Received By: (Signature)	Date/Time
Affiliation <i>AQ</i>	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Received for Laboratory By: (Signature) <i>ROZ</i>	Date/Time <i>8/17/23</i>

Custody Seal: Yes / No
 Appropriate Volume: Yes / No
 Coolers Intact: Yes / No
 Samples Accepted: Yes / No
 Thermometer ID: _____
 Temperature: _____ °C

Anchor

wko_NWDLIS_COC2_noDate_LS version 4: 02/21/2021



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
 130 S. Trade Center Pkwy, Conroe Tx 77385
 (936) 321-6060 - lab@nwdls.com

TCEQ T104704238-23-39

23H3257~

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23H3257

Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:			
Project Comments:							
Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
					P Glass VOA 40mL HCl pH<2 Q Amber Glass 1L w/ Teflon-lined Lid R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid	HNO3 NaOH H2SO4 Other:	
Field Remarks:							
Sampler (Signature)	<i>E. Stewart</i>	Relinquished By: (Signature)				Received By: (Signature)	Date/Time
Print Name	E. Stewart	Relinquished By: (Signature)				Received By: (Signature)	Date/Time
Affiliation	AQ	Relinquished To Lab By: (Signature)	<i>E. Stewart</i>			Received for Laboratory By: (Signature)	Date/Time 3.14.23 118 °C
Custody Seal :	Yes / No	COC Labels Agree:	Yes / No	Appropriate Volume:	Yes / No	Received On Ice:	Yes / No
Container Intact :	Yes / No	Appropriate Containers:	Yes / No	Coolers Intact:	Yes / No	Samples Accepted:	Yes / No
Anchor							



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
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Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-04	CPC-03-SW-230815 CPC-03-SW-230815	10:34 8/15/23	10:44 8/15/23	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass 250mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl pH<2 O Glass VOA 40mL HCl pH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200 HNO3 OCp-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Pref 4°C TOC-5310 C H2SO4 4°C	

Field Remarks:

Preservation: H2SO4 NaOH
Circle and Write ID) 2108097 2308075

Sampler (Signature): *E. Stewart* Date/Time: _____
 Print Name: E. Stewart Date/Time: _____
 Affiliation: AQ Date/Time: 8/17/23
 Relinquished By: (Signature) _____ Date/Time: _____
 Relinquished To Lab By: (Signature) *E. Stewart* Date/Time: 8.17.23
 Received for Laboratory By: (Signature) _____ Date/Time: _____
 Received By: (Signature) _____ Date/Time: _____

COC Labels Agree: Yes / No
 Appropriate Containers: Yes / No
 Appropriate Volume: Yes / No
 Coolers Intact: Yes / No
 Samples Accepted: Yes / No
 Thermometer ID: _____
 Temperature: _____ °C

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Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
					P Glass VOA 40mL HCl pH<2 Q Amber Glass 1L w/ Teflon-lined Lid R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid	HNO3 NaOH Other:	

Field Remarks:

Preservation: H2SO4
(Circle and Write ID)

Relinquished By: (Signature) *E. Stewart* Date/Time
 Relinquished By: (Signature) *E. Stewart* Date/Time
 Relinquished To Lab By: (Signature) *E. Stewart* Date/Time *8/17/23*

Received By: (Signature) Date/Time
 Received By: (Signature) Date/Time
 Received for Laboratory By: (Signature) *RCR* Date/Time *8-17-23*

COC Labels Agree: Yes / No
 Appropriate Containers: Yes / No
 Appropriate Volume: Yes / No
 Coolers Intact: Yes / No
 Received on Ice: Yes / No
 Samples Accepted: Yes / No
 Temperature: °C
 Thermometer ID:

Anchor

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23H3257

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-05	CPC-04-SW-230815 CPC-04-SW-230815	11:45 8/15/23	11:55 8/15/23	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass 250mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl pH<2 O Glass VOA 40mL HCl pH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPME HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200. HNO3 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Pref 4°C TOC-5310 C H2SO4 4°C	

Field Remarks:

Preservation: (H2SO4) (HNO3) NaOH
Circle and Write ID) 2108097 230825

Other:

Sampler (Signature) *E. Stewart* Date/Time Received By: (Signature) _____ Date/Time _____

Print Name *E. Stewart* Date/Time Received By: (Signature) _____ Date/Time _____

Affiliation *AQ* Date/Time Received for Laboratory By: (Signature) *RCR* Date/Time *8.17.23*

COC Labels Agree: Yes / No
Appropriate Volume: Yes / No
Coolers Intact: Yes / No
Samples Accepted: Yes / No
Temperature: _____
Thermometer ID: _____



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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:			
Project Comments:		Project Comments:					
Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
					P Glass VOA 40mL HCl pH<2 Q Amber Glass 1L w/ Teflon-lined Lid R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid	HNO3 NaOH H2SO4 Preservation: Circle and Write ID)	
Field Remarks:							
Sampler (Signature)	<i>E. Stewart</i>	Relinquished By: (Signature)		Date/Time	Received By: (Signature)	Date/Time	
Print Name	<i>E. Stewart</i>	Relinquished By: (Signature)		Date/Time	Received By: (Signature)	Date/Time	
Affiliation	<i>AQ</i>	Relinquished To Lab By: (Signature)	<i>E. Stewart</i>	Date/Time	Received for Laboratory By: (Signature)	Date/Time	<i>17.2.3</i> <i>118</i> °C
Custody Seal :	Yes / No	COC Labels Agree:	Yes / No	Appropriate Volume:	Yes / No	Received on Ice:	Yes / No
Container Intact :	Yes / No	Appropriate Containers:	Yes / No	Coolers Intact:	Yes / No	Samples Accepted:	Yes / No
						Thermometer ID:	



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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:	
Project Comments:					

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-06	CPC-05-SW-230816 CPC-05-SW-230816	8:50 8/16/23	8:57 8/16/23	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass 250mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl pH<2 O Glass VOA 40mL HCl pH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200. HNO3 OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Pref 4°C TOC-5310 C H2SO4 4°C	

Field Remarks: Preservation: H2SO4 HNO3 NaOH
 Circle and Write ID) 2108097 2308075

Sampler (Signature) E. Stewart	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name E. Stewart	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation AQ	Relinquished To Lab By: (Signature) E. Stewart	Date/Time 8/17/23	Received for Laboratory By: (Signature) BOR	Date/Time 8.17.23

Custody Seal: Yes / No
 Appropriate Containers: Yes / No
 Appropriate Volume: Yes / No
 Coolers Intact: Yes / No
 Received on Ice: Yes / No
 Samples Accepted: Yes / No
 Thermometer ID: _____
 Temperature: _____ °C

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Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
					P Glass VOA 40mL HCl pH<2 Q Amber Glass 1L w/ Teflon-lined Lid R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid	HNO3 NaOH Other:	

Field Remarks:

Preservation: H2SO4
Circle and Write ID)

Sampler (Signature)	<i>E. Stewart</i>	Relinquished By: (Signature)		Received By: (Signature)		Date/Time	
Print Name	E. Stewart	Relinquished By: (Signature)		Received By: (Signature)		Date/Time	
Affiliation	AQ	Relinquished To Lab By: (Signature)	<i>E. Stewart</i>	Received for Laboratory By: (Signature)	<i>POF</i>	Date/Time	<i>8/17/23 1118</i>

COC Labels Agree: Yes / No

Appropriate Volume: Yes / No

Appropriate Containers: Yes / No

Coolers Intact: Yes / No

Samples Accepted: Yes / No

Thermometer ID: _____

Temperature: _____ °C

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Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-07	CPC-06-SW-230816 CPC-06-SW-230816	10:05 8/16/23	10:11 8/16/23	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass 250mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl pH<2 O Glass VOA 40mL HCl pH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200. HNO3 4°C OCB-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Pref. 4°C TOC-5310 C H2SO4 4°C	

Field Remarks:

Preservation: H2SO4 HNO3 NaOH
Circle and Write ID) 2108097 2308075

Sampler (Signature): E. Stewart
Print Name: E. Stewart
Affiliation: AQ

Relinquished By: (Signature)
Relinquished By: (Signature)
Relinquished To Lab By: (Signature): E. Stewart

Received By: (Signature)
Received By: (Signature)
Received for Laboratory By: (Signature): Ror

Date/Time
Date/Time
Date/Time
8/17/23 11:18
8.17.23 11:18

Custody Seal : Yes / No
Container Intact : Yes / No
Appropriate Volume: Yes / No
Appropriate Containers: Yes / No
COOLERS Intact: Yes / No
Received on Ice: Yes / No
Samples Accepted: Yes / No
Temperature: °C
Thermometer ID:



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Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
					P Glass VOA 40mL HCl pH<2 Q Amber Glass 1L w/ Teflon-lined Lid R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid	H2SO4 HNO3 NaOH Other:	

Field Remarks:

Relinquished By: (Signature) *E. Stewart* Date/Time

Relinquished By: (Signature) Date/Time

Relinquished To Lab By: (Signature) *E. Stewart* Date/Time *8/17/23*

Affiliation *AQ* Received for Laboratory By: (Signature) *FOR* Date/Time *8/17/23*

COC Labels Agree: Yes / No

Appropriate Volume: Yes / No

Appropriate Containers: Yes / No

Coolers Intact: Yes / No

Samples Accepted: Yes / No

Thermometer ID: _____ °C

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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937	Project Name : Galveston Bay 2023	Schedule Comments:
Project Comments:		

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-08	CPC-07-SW-230816	11:10 8/16/23	11:18 8/16/23	AQ Grab	A PreClean HDPE 250mL HNO3 after Fil B PreCleaned HDPE 250mL HNO3 C PreCleaned HDPE 250mL H2SO4 D Glass 250mL H2SO4 E Glass VOA 60mL F Glass VOA 60mL G Glass VOA 60mL H Glass VOA 60mL I Glass VOA 60mL J Glass VOA 60mL K Glass VOA 60mL L Glass VOA 60mL M Glass VOA 60mL N Glass VOA 40mL HCl pH<2 O Glass VOA 40mL HCl pH<2	Antimony KED D ICPMS HNO3 Arsenic KED D ICPMS 2 HNO3 Cadmium KED D ICPMS HNO3 Chromium KED D ICPM HNO3 Copper KED D ICPMS 2 HNO3 Hg-245.1 HNO3 Lead KED D ICPMS 200 HNO3 Nickel KED D ICPMS 20 HNO3 Silver KED D ICPMS 20 HNO3 Zinc KED D ICPMS 200 HNO3 4°C 4°C 4°C 4°C NH3-N SEAL-350.1 H2SO4 4°C Site Water Elutriate Pref 4°C TOC-5310 C H2SO4 4°C	

Field Remarks: Preservation: (Circle and Write ID) H2SO4 208 047 HNO3 2308 075 Other: NaOH

Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Received By: (Signature)	Date/Time
Print Name <i>E. Stewart</i>	Relinquished By: (Signature)	Received By: (Signature)	Date/Time
Affiliation <i>AQ</i>	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Received for Laboratory By: (Signature) <i>RAC</i>	Date/Time <i>8.17.23</i>

Custody Seal : Yes / No
Appropriate Containers: Yes / No
Appropriate Volume: Yes / No
Coolers Intact: Yes / No
Temperature: °C
Thermometer ID:



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Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
					P Glass VOA 40mL HCl pHK2 Q Amber Glass 1L w/ Teflon-lined Lid R Amber Glass 1L w/ Teflon-lined Lid S Amber Glass 1L w/ Teflon-lined Lid	H2SO4 HNO3 NaOH Other:	

Field Remarks:

Preservation: H2SO4
Circle and Write ID)

Relinquished By: (Signature) *E. Stewart* Date/Time
 Relinquished By: (Signature) *E. Stewart* Date/Time
 Relinquished To Lab By: (Signature) *E. Stewart* Date/Time *8/17/23*

Received By: (Signature) Date/Time
 Received By: (Signature) Date/Time
 Received for Laboratory By: (Signature) *POE* Date/Time *8.17.23*

COC Labels Agree: Yes / No
 Appropriate Volume: Yes / No
 Appropriate Containers: Yes / No
 Coolers Intact: Yes / No
 Received on Ice: Yes / No
 Samples Accepted: Yes / No
 Thermometer ID: _____
 Temperature: _____ °C

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Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-09	CPC-01-SET-230815 CPC-01-SET-230815	8:50 8/15/23	8:58 8/15/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS E 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E 4°C Hg-245.1-ELUT 4°C Lead KED D ICPMS ELL 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCP-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle NH3-N SEAL-350.1-ELU 4°C TOC-5310 C-ELUT 4°C	

Field Remarks: Preservation: H2SO4 HNO3 NaOH
(Circle and Write ID)

Sampler (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	Date/Time
E. Stewart				
E. Stewart				
AG	E. Stewart	8/17/23 11:26	Received for Laboratory By: (Signature)	8.17.23 11:13

COC Labels Agree: Yes / No
Appropriate Volume: Yes / No
Appropriate Containers: Yes / No
Coolers Intact: Yes / No
Received on site: Yes / No
Samples Accepted: Yes / No
Thermometer ID: _____
Temperature: _____
°C



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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937	Project Name : Galveston Bay 2023	Schedule Comments:
Project Comments:		

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-10	00-230216 CPC-02-SET-230815	9:53 8/15/23	9:59 8/15/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS E 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E 4°C Hg-245.1-ELUT 4°C Lead KED D ICPMS ELI 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCP-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle 4°C NH3-N SEAL-350.1-ELU 4°C TOC-5310 C-ELUT 4°C	

Field Remarks: Preservation: H2SO4 HNO3 NaOH
Circle and Write ID)

Sampler (Signature) <i>C. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name <i>C. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation <i>AQ</i>	Relinquished To Lab By: (Signature) <i>C. Stewart</i>	Date/Time <i>8/15/23</i>	Received for Laboratory By: (Signature) <i>POF</i>	Date/Time <i>8.17.23</i> <i>1118</i>

Custody Seal : Yes / No
Appropriate Containers: Yes / No
Coolers Intact: Yes / No
Appropriate Volume: Yes / No
Received on Ice: Yes / No
Temperature: °C
Thermometer ID:



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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:	
Project Comments:					

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-11	000000 CPC-03-SET-230815	10:58 8/15/23	11:09 8/15/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS E 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E 4°C Hg-245.1-ELUT 4°C Lead KED D ICPMS ELI 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCP-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle 4°C NH3-N SEAL-350.1-ELU 4°C TOC-5310 C-ELUT 4°C	

Field Remarks: HNO3 NaOH
(Circle and Write ID)

Preservation: H2SO4

Sampler (Signature) <i>E. Stewart</i>	Received By: (Signature)	Date/Time	Date/Time
Print Name <i>E. Stewart</i>	Received By: (Signature)	Date/Time	Date/Time
Affiliation <i>AQ</i>	Received for Laboratory By: (Signature) <i>POZ</i>	Date/Time <i>8/17/23</i>	Date/Time <i>8.17.23</i>

COC Labels Agree: Yes / No
Appropriate Containers: Yes / No
Coolers Intact: Yes / No
Received/On Ice: Yes / No
Samples Accepted: Yes / No
Thermometer ID: _____
Temperature: _____ °C

Anchor

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CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe TX 77385
(936) 321-6060 - lab@nwdls.com

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Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-12	00-20-01E CPC-04-SET-230815	11:45 8/15/23	11:55 8/15/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS E 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E 4°C Hg-245.1-ELUT 4°C Lead KED D ICPMS ELI 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCp-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle 4°C NH3-N SEAL-350.1-ELU 4°C TOC-5310 C-ELUT 4°C	

Field Remarks: Preservation: H2SO4 HNO3 NaOH
Circle and Write ID)

Sampler (Signature) *E. Stewart* Date/Time Received By: (Signature) Date/Time
Print Name *E. Stewart* Date/Time Received By: (Signature) Date/Time
Affiliation *AQ* Date/Time Received for Laboratory By: (Signature) *FOR* Date/Time *8/17/23*

COC Labels Agree: Yes / No
Appropriate Containers: Yes / No
Appropriate Volume: Yes / No
Coolers Intact: Yes / No
Received on Ice: Yes / No
Samples Accepted: Yes / No
Temperature: °C
Thermometer ID:



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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:	
Project Comments:					

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-13	CPC-05-SET-230816 CPC-05-SET-230816	9:20 8/16/23	9:30 8/16/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS E 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E 4°C Hg-245.1-ELUT 4°C Lead KED D ICPMS EL 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCP-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle NH3-N SEAL-350.1-ELU 4°C TOC-5310 C-ELUT 4°C	

Field Remarks: H2SO4 HNO3 NaOH Other: _____
(Circle and Write ID)

Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name E. Stewart	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation AQ	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Date/Time 8/17/23	Received for Laboratory By: (Signature) <i>POB</i>	Date/Time 8.17.23

COC Labels Agree: Yes / No
Appropriate Volume: Yes / No
Coolers Intact: Yes / No
Samples Accepted: Yes / No
Thermometer ID: _____
Temperature: _____ °C



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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:	
Project Comments:					

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-14	CPC-06-SET-230816 CPC-06-SET-230816	10:30 8/16/23	10:40 8/16/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS 4°C Hg-245.1-ELUT 4°C Lead KED D ICPMS ELI 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCB-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle 4°C NH3-N SEAL-350.1-ELU 4°C TOC-5310 C-ELUT 4°C	

Field Remarks: Preservation: H2SO4 HNO3 NaOH
Circle and Write ID) Other:

Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation <i>AQ</i>	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Date/Time <i>8/17/23</i>	Received for Laboratory By: (Signature) <i>ROR</i>	Date/Time <i>8.17.23</i>

Custody Seal : Yes / No
Appropriate Containers: Yes / No
Coolers Intact : Yes / No
Appropriate Volume: Yes / No
Received on Ice: Yes / No
Samples Accepted: Yes / No
Thermometer ID: _____
Temperature: _____ °C

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23H3257

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-15	OB-2007-E CPC-07-SET-230816	11:30 11:30 8/16/23	11:40 11:40 8/16/23	S Grab	A Glass Wide 1L w/ Teflon-lined Lid	Antimony KED D ICPMS 4°C Arsenic KED D ICPMS E 4°C Cadmium KED D ICPMS 4°C Chromium KED D ICPM 4°C Copper KED D ICPMS E 4°C Hg-245.1-ELUT 4°C Lead KED D ICPMS EL 4°C Nickel KED D ICPMS EL 4°C Silver KED D ICPMS EL 4°C Zinc KED D ICPMS ELU 4°C OCP-8081-ELUT 4°C PCB-8082-ELUT 4°C SVOA-8270-ELUT 4°C TPH-1005-ELUT 4°C ELUT Bottle NH3-N SEAL-350.1-ELU 4°C TOC-5310 C-ELUT 4°C	

Field Remarks:

Preservation: H2SO4 HNO3 NaOH Other: _____

Circle and Write ID) _____

Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation <i>AQ</i>	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Date/Time <i>8/17/23</i>	Received for Laboratory By: (Signature) <i>RCR</i>	Date/Time <i>8/17/23</i>

COC Labels Agree: Yes / No
Appropriate Volume: Yes / No
Appropriate Containers: Yes / No
Coolers Intact: Yes / No
Samples Accepted: Yes / No
Thermometer ID: _____

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Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-16	CPC-01-SC-230815 CPC-01-SC-230815	850 8/15/23	858 8/15/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 24°C Arsenic KED ICPMS 20/4°C Cadmium KED ICPMS 24°C Chromium KED ICPMS: 4°C Copper KED ICPMS 20/4°C Hg-7471 4°C Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200.4°C Silver KED ICPMS 200.4 4°C Zinc KED ICPMS 200.8 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 <20°C Sub_Dioxin-Furan 4°C Sub_Grain Size-Laser 4°C NH3-N T-350.2 4°C TOC-9060 4°C	

Field Remarks: Preservation: H2SO4 HNO3 NaOH Other: _____
(Circle and Write ID)

Sampler (Signature) *E. Stewart* Received By: (Signature) _____ Date/Time _____
Print Name *E. Stewart* Relinquished By: (Signature) _____ Date/Time _____
Affiliation *AQ* Relinquished To Lab By: (Signature) *E. Stewart* Received for Laboratory By: (Signature) *POZ* Date/Time *8/17/23 1118*

Custody Seal: Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____ °C
Container Intact: Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____



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Anchor OEA, LLC
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1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
						TS-2540 G 4°C	

Field Remarks: H2SO4 HNO3 NaOH Other:

Preservation: (Circle and Write ID)

Sampler (Signature) *E. Stewart* Date/Time Relinquished By: (Signature) Received By: (Signature) Date/Time

Print Name *E. Stewart* Date/Time Relinquished By: (Signature) Received By: (Signature) Date/Time

Affiliation *AQ* Date/Time Relinquished To Lab By: (Signature) Received for Laboratory By: (Signature) Date/Time
8/17/23 *POB* *8.17.23*

Custody Seal: Yes / No
Appropriate Volume: Yes / No
COC Labels Agree: Yes / No
Appropriate Containers: Yes / No
Coolers Intact: Yes / No
Samples Accepted: Yes / No
Temperature: °C
Thermometer ID:



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Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-17	69-23-02-01 CPC-02-SC-230815	9:53 8/15/23	9:59 8/15/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 2 4°C Arsenic KED ICPMS 20 4°C Cadmium KED ICPMS 2 4°C Chromium KED ICPMS : 4°C Copper KED ICPMS 20 4°C Hg-7471 4°C Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200. 4°C Silver KED ICPMS 200.4 4°C Zinc KED ICPMS 200.8 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 <-20°C Sub_Dioxin-Furan 4°C Sub_Grain Size-Laser 4°C NH3-N T-350.2 4°C TOC-9060 4°C	

Field Remarks:

Preservation: H2SO4 HNO3 NaOH Other:

(Circle and Write ID)

Sampler (Signature) *E. Stewart* Received By: (Signature) _____ Date/Time _____

Print Name *E. Stewart* Received By: (Signature) _____ Date/Time _____

Affiliation *AQ* Received for Laboratory By: (Signature) *POE* Date/Time *8.17.23*

Custody Seal : Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received on Ice: Yes / No Temperature: _____ °C

Container Intact : Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____

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TCEQ T104704238-23-39

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
						TS-2540 G 4°C	

Field Remarks:

Preservation: H2SO4 HNO3 NaOH Other:

(Circle and Write ID)

Relinquished By: (Signature) Date/Time Received By: (Signature) Date/Time

Relinquished By: (Signature) Date/Time Received By: (Signature) Date/Time

Relinquished To Lab By: (Signature) Date/Time Received for Laboratory By: (Signature) Date/Time

E. Stewart 8/17/23 *POE* 8.17.23

COC Labels Agree: Yes / No

Appropriate Volume: Yes / No

Appropriate Containers: Yes / No

Received on Ice: Yes / No

Coolers Intact: Yes / No

Samples Accepted: Yes / No

Temperature: °C

Thermometer ID:

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North Water District Laboratory Services
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Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937		Project Name : Galveston Bay 2023		Schedule Comments:	
Project Comments:					

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-18	CPC-03-SC-230815 CPC-03-SC-230815	10:58 8/15/23	11:09 8/15/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 2.4°C Arsenic KED ICPMS 20.4°C Cadmium KED ICPMS 2.4°C Chromium KED ICPMS :4°C Copper KED ICPMS 20.4°C Hg-7471 4°C Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200.4°C Silver KED ICPMS 200.4 4°C Zinc KED ICPMS 200.8 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 <-20°C Sub_Dioxin-Furan 4°C Sub_Grain Size-Laser 4°C NH3-N T-350.2 4°C TOC-9060 4°C	

Field Remarks: Preservation: H2SO4 HNO3 NaOH Other: _____
(Circle and Write ID)

Sampler (Signature) <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name <i>E. Stewart</i>	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation <i>AQ</i>	Relinquished To Lab By: (Signature) <i>E. Stewart</i>	Date/Time <i>8/17/23</i>	Received for Laboratory By: (Signature) <i>RWC</i>	Date/Time <i>8/17/23</i>

Custody Seal : Yes / No
Appropriate Containers: Yes / No
Coolers Intact: Yes / No
Appropriate Volume: Yes / No
Received on Ice: Yes / No
Temperature: _____ °C
Thermometer ID: _____
Samples Accepted: Yes / No



CHAIN OF CUSTODY RECORD

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Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
						TS-2640 G 4°C	
Field Remarks: Preservation: H2SO4 HNO3 NaOH Other:							
Sampler (Signature) <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Print Name <i>E. Stewart</i>		Relinquished By: (Signature)		Date/Time		Received By: (Signature)	
Affiliation <i>AQ</i>		Relinquished To Lab By: (Signature) <i>E. Stewart</i>		Date/Time <i>8/17/23</i>		Received for Laboratory By: (Signature) <i>POZ</i>	

COC Labels Agree: Yes / No
 Appropriate Volume: Yes / No
 Appropriate Containers: Yes / No
 Coolers Intact: Yes / No
 Received on-site: Yes / No
 Samples Accepted: Yes / No
 Temperature: _____
 Thermometer ID: _____

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23H3257

Anchor QEA, LLC
 Sara Flaherty
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-19	CPC-04-SC-230815 CPC-04-SC-230815	11:45 8/15/23	11:55 8/15/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 24°C Arsenic KED ICPMS 20(4°C Cadmium KED ICPMS 24°C Chromium KED ICPMS : 4°C Copper KED ICPMS 20(4°C Hg-7471 4°C Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200.4°C Silver KED ICPMS 200.4°C Zinc KED ICPMS 200.8 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 <-20°C Sub_Dioxin-Furan 4°C Sub_Grain Size-Laser 4°C NH3-N T-350.2 4°C TOC-9060 4°C	

Field Remarks:

Preservation: H2SO4
(Circle and Write ID)

Other: HNO3 NaOH

Sampler (Signature)	Date/Time	Received By: (Signature)	Date/Time
<i>E. Stewart</i>			
Print Name E. Stewart		Received By: (Signature)	Date/Time
Affiliation AQ		Received for Laboratory By: (Signature) <i>ROR</i>	Date/Time 8/17/23

COC Labels Agree: Yes / No

Appropriate Volume: Yes / No

Appropriate Containers: Yes / No

Received On Ice: Yes / No

Samples Accepted: Yes / No

Temperature: _____ °C

Thermometer ID: _____

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Project Name : Galveston Bay 2023
Project Comments:
 Schedule Comments:

Anchor QEA, LLC
 Sara Flaherty
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone: (361) 450-6937

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
					Preservation: H2SO4 (Circle and Write ID)	HNO3 NaOH	Other:
						TS-2540 G 4°C	

Field Remarks:

Sampler (Signature): *E. Stewart* Relinquished By: (Signature) _____ Date/Time: _____
 Print Name: *E. Stewart* Relinquished By: (Signature) _____ Date/Time: _____
 Affiliation: *AQ* Relinquished To Lab. By: (Signature) *E. Stewart* Date/Time: *8/17/23*
 Received for Laboratory By: (Signature) *ROR* Date/Time: *8/17/23*

COC Labels Agree: Yes / No _____ Appropriate Volume: Yes / No _____ Received on Site: Yes / No _____ Temperature: _____ °C
 Container Intact: Yes / No _____ Appropriate Containers: Yes / No _____ Coolers Intact: Yes / No _____ Samples Accepted: Yes / No _____ Thermometer ID: _____



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Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Anchor QEA, LLC
Sara Flaherty
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Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-20	05-23-0000 CPC-05-SC-230816	9:20 8/16/23	9:30 8/16/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 24°C Arsenic KED ICPMS 20(4°C Cadmium KED ICPMS 24°C Chromium KED ICPMS:4°C Copper KED ICPMS 20(4°C Hg-7471 4°C Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200.4°C Silver KED ICPMS 200.4 4°C Zinc KED ICPMS 200.8 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 <20°C Sub_Dioxin-Furan 4°C Sub_Grain Size-Laser 4°C NH3-N T-350.2 4°C TOC-9060 4°C	

Field Remarks: HNO3 H2SO4 NaOH Other: _____
(Circle and Write ID)

Sampler (Signature) *E. Stewart* Received By: (Signature) _____ Date/Time _____

Print Name E. Stewart Relinquished By: (Signature) _____ Date/Time _____

Affiliation AQ Relinquished To Lab By: (Signature) *E. Stewart* Received for Laboratory By: (Signature) *POZ* Date/Time 8-17-23

Custody Seal: Yes / No COC Labels Agree: Yes / No Appropriate Volume: Yes / No Received in Office: Yes / No Temperature: _____ °C

Container Intact: Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No Samples Accepted: Yes / No Thermometer ID: _____

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Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Anchor QEA, LLC
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1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
					Preservation: H2SO4 (Circle and Write ID)	HNO3 NaOH	Other:
Sampler (Signature)	<i>E. Stewart</i>	Relinquished By: (Signature)			Date/Time	Received By: (Signature)	Date/Time
Print Name	<i>E. Stewart</i>	Relinquished By: (Signature)			Date/Time	Received By: (Signature)	Date/Time
Affiliation	<i>AQ</i>	Relinquished To Lab By: (Signature)	<i>E. Stewart</i>		Date/Time <i>8/17/23</i>	Received for Laboratory By: (Signature)	Date/Time <i>8.17.23</i>

Field Remarks:

COC Labels Agree: Yes / No

Appropriate Volume: Yes / No

Appropriate Containers: Yes / No

Received on Ice: Yes / No

Temperature: _____ °C

Thermometer ID: _____

Samples Accepted: Yes / No

Coollers Intact: Yes / No

Anchor



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe, TX 77385
(936) 321-6060 - lab@nwdls.com

TCEQ T104704238-23-39

23H3257~

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23H3257

Anchor QEA, LLC Sara Flaherty 1201 3rd Avenue, Suite 2600 Seattle, WA 98101 Phone: (361) 450-6937	Project Name : Galveston Bay 2023	Schedule Comments:
	Project Comments:	

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-21	CPC-06-SC-230816 CPC-06-SC-230816	1030 8/16/23	1040 8/16/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 2 4°C Arsenic KED ICPMS 20(4°C Cadmium KED ICPMS 2 4°C Chromium KED ICPMS : 4°C Copper KED ICPMS 20(4°C Hg-7471 4°C Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200.4 4°C Silver KED ICPMS 200.4 4°C Zinc KED ICPMS 200.8 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 <-20°C Sub_Dioxin-Furan 4°C Sub_Grain Size-Laser 4°C NH3-N T-350.2 4°C TOC-9060 4°C	

Field Remarks: Preservation: H2SO4 HNO3 NaOH Other: _____
(Circle and Write ID)

Sampler (Signature) <i>E. Stuard</i>	Received By: (Signature)	Date/Time
Print Name <i>E. Stuard</i>	Received By: (Signature)	Date/Time
Affiliation <i>AQ</i>	Received for Laboratory By: (Signature) <i>ROR</i>	Date/Time <i>8.17.23</i>

Custody Seal: Yes / No C.O.C. Labels Agree: Yes / No Appropriate Volumes: Yes / No
 Container Intact: Yes / No Appropriate Containers: Yes / No Coolers Intact: Yes / No
 Received from: Yes / No Temperature: _____
 Samples Accepted: Yes / No Thermometer ID: _____

Anchor



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe Tx 77385
(936) 321-6060 - lab@nwdls.com

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23H3257

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
					Preservation: H2SO4 (Circle and Write ID)	HNO3 NaOH	Other:
						TS-2540 G 4°C	
Sampler (Signature)	<i>E. Stewart</i>	Relinquished By: (Signature)				Received By: (Signature)	Date/Time
Print Name	<i>E. Stewart</i>	Relinquished By: (Signature)				Received By: (Signature)	Date/Time
Affiliation	<i>AQ</i>	Relinquished To Lab By: (Signature)	<i>E. Stewart</i>			Received for Laboratory By: (Signature)	Date/Time
							<i>8.17.23</i>

Field Remarks:

Custody Seal: Yes / No
Appropriate Containers: Yes / No
Appropriate Volume: Yes / No
Coolers Intact: Yes / No
Samples Accepted: Yes / No
Thermometer ID: _____
Temperature: _____ °C

Anchor

wko_NWDLS_COC2_noDate_LS version 4: 02/21/2021



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe Tx 77385
(936) 321-6060 - lab@nwdl.com

TCEQ T104704238-23-39

23H3257~

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23H3257

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
23H3257-22	CPC-07-SC-230816 CPC-07-SC-230816	11:30 8/16/23	11:46 8/16/23	S Grab	A HDPE 250mL B HDPE 250mL C Glass 250mL D Glass 250mL E Glass 250mL w/ Teflon-lined Lid F Glass 250mL w/ Teflon-lined Lid G Glass 250mL w/ Teflon-lined Lid	Antimony KED ICPMS 2.4°C Arsenic KED ICPMS 20.4°C Cadmium KED ICPMS 2.4°C Chromium KED ICPMS : 4°C Copper KED ICPMS 20.4°C Hg-7471 4°C Lead KED ICPMS 200.8 4°C Nickel KED ICPMS 200. 4°C Silver KED ICPMS 200.4°C Zinc KED ICPMS 200.8 4°C OCP-8081 4°C PCB-8082 4°C SVOA-8270 4°C TPH-1005 <-20°C Sub_Dioxin-Furan 4°C Sub_Grain Size-Laser 4°C NH3-N T-350.2 4°C TOC-9060 4°C	

Field Remarks: Preservation: H2SO4 HNO3 NaOH
(Circle and Write ID)

Sampler (Signature) *E. Stewart* Relinquished By: (Signature)
Print Name *E. Stewart* Relinquished By: (Signature)
Affiliation *AQ* Relinquished To Lab By: (Signature) *E. Stewart*

Date/Time Received By: (Signature)
Date/Time Received By: (Signature)
Date/Time Received for Laboratory By: (Signature) *RDR*

Custody Seal: Yes / No
Appropriate Volume: Yes / No
Appropriate Containers: Yes / No
Coolers Intact: Yes / No
Received Correctly: Yes / No
Temperature: _____
Thermometer ID: _____

Anchor

wko_NWDLs_COC2_noDate_LS version 4: 02/21/2021



CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe TX 77385
(936) 321-6060 - lab@nwdls.com

TCEQ T104704238-23-39

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23H3257

Anchor QEA, LLC
Sara Flaherty
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone: (361) 450-6937

Project Name : Galveston Bay 2023

Project Comments:

Schedule Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
						TS-2540 G 4°C	

Field Remarks:

Preservation: H2SO4 HNO3 NaOH Other: _____
(Circle and Write ID)

Sampler (Signature) *E. Stewart* Relinquished By: (Signature) _____ Date/Time _____
Print Name *E. Stewart* Relinquished By: (Signature) _____ Date/Time _____
Affiliation *DQ* Relinquished To Lab By: (Signature) *E. Stewart* Date/Time *8/17/23*
Received for Laboratory By: (Signature) *POZ* Date/Time *8/17/23*

Custody Seal: Yes / No
Appropriate Containers: Yes / No
Coolers Intact: Yes / No
Samples Accepted: Yes / No
Thermometer ID: _____
Temperature: _____ °C

Anchor

wko_NWDLS_COC2_noDate_IS version 4: 02/21/2021

Attachment 5
Data Validation Reports

Data Validation Report – EPA Stage 2A

November 22, 2023

Project: Cedar Port – Deepwater Project Engineering

Project Number: 232823-01.01

Validation ID: AQ-2023-0228

This report summarizes the review of analytical results for seven water samples, seven elutriate samples, seven sediment samples, and one equipment blank sample collected in August 2023. The samples were collected by Anchor QEA and submitted to North Water District Laboratory Services, Inc. (NWDLS) in Conroe, TX, Stratum Reservoir Laboratory (STR) in Houston TX, A&B Labs (A&B) in Houston, TX, APPL Inc. (APPL) in Clovis, CA, and ALS Environmental (ALS) in Kelso, WA. The following analytical parameter results were reviewed in this report:

- Ammonia (NH₃) by United States Environmental Protection Agency (USEPA) methods 350.1 and 350.2
- Grain Size (GS) by ASTM International (ASTM) method D4464
- Metals by USEPA methods 200.8, 245.1, and 7471B
- Pesticides by USEPA method 8081
- Polychlorinated biphenyl Aroclors (PCBs) by USEPA method 8082
- Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans (D/F) by USEPA method 8290
- Semivolatile organic compounds (SVOCs) by USEPA method 8270
- Total organic carbon (TOC) by Standard Method (SM) 5310 and USEPA method 9060
- Total petroleum hydrocarbons (TPH) by Texas Natural Resource Conservation Commission (TNRCC) method 1005
- Total solids (TS) by SM 2540G

The GS and TOC methods used by the laboratory differed from those suggested in the SAP, however all methods used are deemed comparable and acceptable for use for these analyses. Laboratory sample data groups (SDGs) 23H3257, HH-14452, 23082383, 23082698, 99083, and K2309533 were reviewed in this report. Sample IDs, matrices, and analyses are presented in Table 1.

Table 1
Sample IDs, Matrices, and Analyses

Sample ID	NWDLS/ STR Sample ID	APPL Sample ID	A&B Sample ID	ALS Sample ID	Matrix	Analyses
CPC-EQ BLK- 230815	23H3257- 01	--	--	--	Water	Metals

Sample ID	NWDLS/ STR Sample ID	APPL Sample ID	A&B Sample ID	ALS Sample ID	Matrix	Analyses
CPC-01-SW-230815	23H3257-02	--	23082383.01	--	Water	Metals, NH3, Pesticides, PCBs, SVOCs, TPH, TOC
CPC-02-SW-230815	23H3257-03	--	23082383.02	--	Water	Metals, NH3, Pesticides, PCBs, SVOCs, TPH, TOC
CPC-03-SW-230815	23H3257-04	--	23082383.03	--	Water	Metals, NH3, Pesticides, PCBs, SVOCs, TPH, TOC
CPC-04-SW-230815	23H3257-05	--	23082383.04	--	Water	Metals, NH3, Pesticides, PCBs, SVOCs, TPH, TOC
CPC-05-SW-230816	23H3257-06	--	23082383.05	--	Water	Metals, NH3, Pesticides, PCBs, SVOCs, TPH, TOC
CPC-06-SW-230816	23H3257-07	--	23082383.06	--	Water	Metals, NH3, Pesticides, PCBs, SVOCs, TPH, TOC
CPC-07-SW-230816	23H3257-08	--	23082383.07	--	Water	Metals, NH3, Pesticides, PCBs, SVOCs, TPH, TOC
CPC-01-SET-230815	23H3257-09	--	23082698.01	--	Elutriate	Metals, NH3, Pesticides, PCBs, SVOCs, TPH, TOC
CPC-02-SET-230815	23H3257-10	--	23082698.02	--	Elutriate	Metals, NH3, Pesticides, PCBs, SVOCs, TPH, TOC
CPC-03-SET-230815	23H3257-11	--	23082698.03	--	Elutriate	Metals, NH3, Pesticides, PCBs, SVOCs, TPH, TOC
CPC-04-SET-230815	23H3257-12	--	23082698.04	--	Elutriate	Metals, NH3, Pesticides, PCBs, SVOCs, TPH, TOC
CPC-05-SET-230816	23H3257-13	--	23082698.05	--	Elutriate	Metals, NH3, Pesticides, PCBs, SVOCs, TPH, TOC
CPC-06-SET-230816	23H3257-14	--	23082698.06	--	Elutriate	Metals, NH3, Pesticides, PCBs, SVOCs, TPH, TOC
CPC-07-SET-230816	23H3257-15	--	23082698.07	--	Elutriate	Metals, NH3, Pesticides, PCBs, SVOCs, TPH, TOC
CPC-01-SC-230815	23H3257-16	BA50240	23082383.08	K2309533-001	Sediment	Metals, NH3, TS, Pesticides, PCBs, SVOCs, GS, D/F, TPH, TOC

Sample ID	NWDLS/ STR Sample ID	APPL Sample ID	A&B Sample ID	ALS Sample ID	Matrix	Analyses
CPC-02-SC-230815	23H3257-17	BA50241	23082383.09	K2309533-002	Sediment	Metals, NH3, TS, Pesticides, PCBs, SVOCs, GS, D/F, TPH, TOC
CPC-03-SC-230815	23H3257-18	BA50242	23082383.10	K2309533-003	Sediment	Metals, NH3, TS, Pesticides, PCBs, SVOCs, GS, D/F, TPH, TOC
CPC-04-SC-230815	23H3257-19	BA50243	23082383.11	K2309533-004	Sediment	Metals, NH3, TS, Pesticides, PCBs, SVOCs, GS, D/F, TPH, TOC
CPC-05-SC-230816	23H3257-20	BA50244	23082383.12	K2309533-005	Sediment	Metals, NH3, TS, Pesticides, PCBs, SVOCs, GS, D/F, TPH, TOC
CPC-06-SC-230816	23H3257-21	BA50245	23082383.13	K2309533-006	Sediment	Metals, NH3, TS, Pesticides, PCBs, SVOCs, GS, D/F, TPH, TOC
CPC-07-SC-230816	23H3257-22	BA50246	23082383.14	K2309533-007	Sediment	Metals, NH3, TS, Pesticides, PCBs, SVOCs, GS, D/F, TPH, TOC

Data Validation and Qualifications

The following comments refer to the laboratory's performance in meeting the quality assurance/quality control (QC) guidelines outlined in the analytical procedures. Laboratory results were reviewed using the laboratory control limits and the following guidelines:

- *Draft Sampling and Analysis Plan for the Cedar Port Channel Project, Deepwater Project Engineering (SAP; Anchor QEA 2023)*
- *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods (SW-846, Third Edition; USEPA 1986)*
- *National Functional Guidelines for Organic Superfund Methods Data Review (USEPA 2020a)*
- *National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA 2020b)*
- *National Functional Guidelines for High Resolution Superfund Methods Data Review (USEPA 2020c)*

Unless noted in this report, laboratory results for the samples listed above were within QC criteria.

Field Documentation

The chain-of-custody forms were signed by NWDLS, APPL, A&B, and ALS at the time of sample receipt. Samples were received within the recommended temperature range and in good condition.

Sample Preservation and Holding Times

Samples were appropriately preserved and analyzed within holding times with the following exceptions.

- The SVOCs reanalysis for sample CPC-01-SC-230815 was analyzed 8 days past the 14-day holding time for extraction. The sample was re-extracted and reanalyzed due to low recoveries of all surrogates in the initial analysis. All SVOC results for this sample have been qualified "UJ" due to the exceedance of the extraction holding time.

Laboratory Method Blanks

Laboratory method blanks were analyzed at the required frequencies. All method blanks were free of target analytes with the following exceptions.

- SDG 23H3257
 - Metals batch BGH5034 – The method blank result was above the detection limit for copper. All associated results were greater than five times the concentration of the blank and no data were qualified.
 - Metals batch BGH4284 – The method blank results were above the detection limit for copper when analyzed on 8/29/23. The method blank was above the detection limit for chromium and zinc when analyzed on 8/30/23. One of the method blanks was above the detection limit for nickel when analyzed on 8/29/23. Any associated detected results that were not significantly greater than (greater than five times) the highest concentration were qualified as not detected.
 - Mercury batch BGH4295 – The method blank was above the detection limit for mercury. All associated results were not detected and no data were qualified.
 - SVOC batches BGH3513 and BGH4445 – The method blank results were above the detection limits for diethyl phthalate and phenol. Any associated detected results that were not significantly greater than (greater than ten times for common lab contaminants and greater than five times for all other compounds) the method blank concentration were qualified as not detected.
- SDG 99083
 - The method blank 230906S-50240-274825 was above the detection limit for 2,3,4,7,8-PeCDF and OCDD. Associated results were either not detected or greater than five times the concentration of the blank and no data were qualified.

Field Quality Control

Equipment Blanks

One equipment blank was collected and analyzed for metals in association with these sample sets. Some analytes were previously qualified as non-detect due to method blank contamination and did not further affect data. Detected analytes in samples that were not significantly greater than (greater than five times) the detections found in the equipment blank were qualified as not detected.

Detected equipment blank results are summarized in Table 2.

Table 2
Equipment Blank Results

Sample ID	Analyte	Result
CPC-EQ-BLK-230815	Chromium	0.262 µg/L
	Zinc	1.40 µg/L

Note:
µg/L: micrograms per liter

Surrogate and Labeled Compound Recovery

All surrogate and labeled compound recoveries were within the laboratory control limits with the following exceptions. In instances where the surrogates or labeled compounds recovered above the control limit and sample results were not detected, no data were qualified.

- PCBs – The surrogate decachlorobiphenyl (DCB) recovered below the control limit in the analyses of samples CPC-02-SW-230815, CPC-05-SW-230816, CPC-06-SW-230816, CPC-01-SET-230815, CPC-03-SET-230815, and CPC-05-SET-230816. The results were qualified “UJ” for potential low bias.
- SVOCs –
 - The surrogate p-terphenyl-d14 recovered below the control limit in the analyses of samples CPC-01-SC-230815, CPC-02-SC-230815, and CPC-05-SC-230816. Since the other five surrogates recovered within limits, no data were qualified.
 - The surrogates 2-fluorobiphenyl and p-terphenyl-d14 recovered below the control limit in the analyses of samples CPC-03-SC-230815, CPC-04-SC-230815, CPC-06-SC-230816, and CPC-07-SC-230816. Associated sample results were qualified “J” or “UJ” for potential low bias.

Laboratory Control Samples and Laboratory Control Sample Duplicates

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSDs) were analyzed at the required frequencies. All LCS/LCSD spike recoveries were within project-required control limits with the following exceptions.

- TPH batch Qb230825147 - The LCS recovered below the control limit for the C28-C35 range. All associated TPH results were qualified "UJ" due to potential low bias.
- SVOC batches BGH4163 and BGI0719 – The LCS and/or LCSD recovered below the control limit for 2,4-dinitrophenol. In batch BGH4163 the relative percent difference (RPD) between the LCS and LCSD was also above the control limit. All associated results were qualified "UJ" due to potential low bias..
- Pesticides batch BGH3565 – The LCS and LCSD recovered above the control limit for toxaphene. All sample results were non-detects so no data were qualified.

Matrix Spike and Matrix Spike Duplicate Samples

Matrix spike (MS) and matrix spike duplicate (MSD) samples were at the required frequencies. There were no qualifications for MS/MSD recoveries that were above the control limit where the associated sample results were non-detect. All MS/MSD spike recoveries were within project-required control limits with the following exceptions.

- Metals batch BGH3815 - The RPD value between the MS and MSD analyzed on sample CPC-04-SC-230815 for mercury was above the control limit. All associated detected sample results were qualified "J" as estimated.
- Metals batch BGH5034 – The MS analyzed on sample CPC-01-SC-230815 recovered below 30% for antimony. All antimony sample results were rejected due to the MS recovery below 30%.
- SVOCs batch BGH4163 – The MS and MSD analyzed on sample CPC-02-SC-230815 recovered below the control limit for 2,4-dinitrophenol. The sample result was qualified "UJ" for potential low bias.
- SVOCs batch BGI0719 – Chrysene and hexachlorobenzene had low MS and/or MSD recoveries analyzed on sample CPC-01-SC-230815. These sample results were qualified "UJ" for potential low bias.

Laboratory Duplicates

Laboratory duplicates were analyzed at the required frequency. Duplicate results were evaluated by the difference between them when the parent sample or duplicate result was less than five times the RL because RPD values can become exaggerated as they approach this level. The difference value control limits are \pm RL for aqueous matrices and \pm 2x RL for solid matrices. All duplicate RPD or difference values were within project-required control limits. Duplicate RPD or difference values on non-project samples were not evaluated.

Estimated Maximum Possible Concentration

Some PCB congener results were flagged as estimated maximum possible concentration (EMPC) due to results that do not meet all method qualitative criteria for positive identification. Results were reported as non-detects at the EMPC.

Method Detection Limits, Estimated Detection Limits, and Reporting Limits

Method detection limits (MDLs), estimated detection limits (EDLs), and RLs were acceptable as reported. Non-detect values were reported using the laboratory RL. For analytes affected by field or method blank contamination, values were reported as non-detect at the EDL or MRL. Values were reported as undiluted or when diluted, the reporting limit reflects the dilution factor.

Overall Assessment

As was determined by this evaluation, the laboratory followed the specified analytical methods and all requested sample analyses were completed. Accuracy was acceptable as demonstrated by the surrogate, labeled compound, LCS, LCSD, MS, and MSD recovery values, with the exceptions noted above. Precision was acceptable as demonstrated by the LCS/LCSD, laboratory, and MS/MSD RPD or difference values, with the exceptions noted above. Most data are acceptable as reported or as qualified. Seven results in seven sediment samples were rejected for low recovery. Completeness was greater than 99%. Table 3 summarizes the qualifiers applied to the sample results reviewed in this report.

Data Qualifier Definitions

- J Indicates an estimated value
- U Indicates the compound or analyte was analyzed for but not detected at or above the specified limit.
- UJ Indicates the compound or analyte was analyzed for but not detected and the specified limit reported is estimated.
- R Indicates result is rejected and unusable.

Table 3
Data Qualifier Summary

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
CPC-01-SC-230815	Metals	Antimony	0.0695U mg/kg	R	MS %R below 30%
		Mercury	0.0136J mg/kg	0.0136J mg/kg	MS/MSD RPD above CL
	SVOCs	1,2,4-Trichlorobenzene	4.09RU µg/kg	4.09UJ µg/kg	Extraction holding time exceedance
		1,2-Dichlorobenzene	4.09RU µg/kg	4.09UJ µg/kg	

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
		1,3-Dichlorobenzene	4.09RU µg/kg	4.09UJ µg/kg	
		1,4-Dichlorobenzene	4.09RU µg/kg	4.09UJ µg/kg	
		2,4-Dichlorophenol	8.19RU µg/kg	8.19UJ µg/kg	
		2,4-Dimethylphenol	8.19RU µg/kg	8.19UJ µg/kg	
		Acenaphthene	4.09RU µg/kg	4.09UJ µg/kg	
		Acenaphthylene	4.09RU µg/kg	4.09UJ µg/kg	
		Anthracene	4.09RU µg/kg	4.09UJ µg/kg	
		Benzo(a)anthracene	4.09RU µg/kg	4.09UJ µg/kg	
		Benzo(a)pyrene	4.09RU µg/kg	4.09UJ µg/kg	
		Benzo(b,k)fluoranthene	4.09RU µg/kg	4.09UJ µg/kg	
		Benzo(g,h,i)perylene	4.09RU µg/kg	4.09UJ µg/kg	
		Dibenzo(a,h)anthracene	4.09RU µg/kg	4.09UJ µg/kg	
		Diethyl phthalate	4.09RU µg/kg	4.09UJ µg/kg	
		Fluoranthene	4.09RU µg/kg	4.09UJ µg/kg	
		Fluorene	4.09RU µg/kg	4.09UJ µg/kg	
		Indeno(1,2,3-c,d)pyrene	4.09RU µg/kg	4.09UJ µg/kg	
		Naphthalene	4.09RU µg/kg	4.09UJ µg/kg	
		Pentachlorophenol	8.19RU µg/kg	8.19UJ µg/kg	
		Phenanthrene	4.09RU µg/kg	4.09UJ µg/kg	
		Phenol	8.19RU µg/kg	8.19UJ µg/kg	
		Pyrene	4.09RU µg/kg	4.09UJ µg/kg	
		2,4-Dinitrophenol	8.19RU µg/kg	8.19UJ µg/kg	Extraction holding time

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
					exceedance; LCS and/or LCSD %R below CL
		Chrysene	4.09RU µg/kg	4.09UJ µg/kg	Extraction holding time exceedance; MS and/or MSD %R below CL
		Hexachlorobenzene	4.09RU µg/kg	4.09UJ µg/kg	
CPC-01-SET-230815	Metals	Zinc	2.22J µg/L	2.22U µg/L	EB contamination
		Chromium	0.604J µg/L	15U µg/L	MB contamination
		Nickel	2.22J µg/L	5U µg/L	
	PCBs	Aroclor 1016	0.12U µg/L	0.12UJ µg/L	Surrogate %R below CL
		Aroclor 1221	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1232	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1242	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1248	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1254	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1260	0.12U µg/L	0.12UJ µg/L	
	SVOCs	Diethyl phthalate	0.533J µg/L	0.562U µg/L	MB contamination
		Phenol	1.04J µg/L	1.12U µg/L	
	TPH	TPH (C6-C35)	2.09U mg/L	2.09UJ mg/L	LCS %R below CL
CPC-01-SW-230815	Metals	Chromium	1.06J µg/L	1.06U µg/L	EB contamination
		Zinc	3.42J µg/L	3.42U µg/L	
		Nickel	1.96J µg/L	5U µg/L	MB contamination
	SVOCs	Diethyl phthalate	0.582 µg/L	0.582U µg/L	MB contamination
		Phenol	2.05 µg/L	2.05U µg/L	
CPC-02-SC-230815	Metals	Antimony	0.0547U mg/kg	R	MS %R below 30%
		Mercury	0.0261 mg/kg	0.0261J mg/kg	MS/MSD RPD above CL

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
	SVOCs	2,4-Dinitrophenol	6.55U µg/kg	6.55UJ µg/kg	MS/MSD %R below CL; LCS and/or LCSD %R below CL
CPC-02-SET- 230815	Metals	Zinc	1.35J µg/L	1.35U µg/L	EB contamination
		Copper	1.23J µg/L	5U µg/L	MB contamination
		Nickel	1.97J µg/L	5U µg/L	
	SVOCs	Diethyl phthalate	0.43J µg/L	0.562U µg/L	MB contamination
		Phenol	1.2 µg/L	1.2U µg/L	
TPH	TPH (C6-C35)	2.09U mg/L	2.09UJ mg/L	LCS %R below CL	
CPC-02-SW- 230815	Metals	Chromium	0.529J µg/L	0.529U µg/L	EB contamination
		Zinc	2.44J µg/L	2.44U µg/L	
		Nickel	1.48J µg/L	5U µg/L	MB contamination
	PCBs	Aroclor 1016	0.12U µg/L	0.12UJ µg/L	Surrogate %R below CL
		Aroclor 1221	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1232	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1242	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1248	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1254	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1260	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1262	0.12U µg/L	0.12UJ µg/L	
	Aroclor 1268	0.12U µg/L	0.12UJ µg/L		
	SVOCs	Diethyl phthalate	0.332J µg/L	0.558U µg/L	MB contamination
		Phenol	1.89 µg/L	1.89U µg/L	
CPC-03-SC-230815	Metals	Antimony	0.0569U mg/kg	R	MS %R below 30%
		Mercury	0.0294 mg/kg	0.0294J mg/kg	MS/MSD RPD above CL

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
		2,4-Dinitrophenol	6.93U µg/kg	6.93UJ µg/kg	LCS and/or LCSD %R below CL
	SVOCs	1,2,4-Trichlorobenzene	3.47U µg/kg	3.47UJ µg/kg	Surrogate %R below CL
		1,2-Dichlorobenzene	3.47U µg/kg	3.47UJ µg/kg	
		1,3-Dichlorobenzene	3.47U µg/kg	3.47UJ µg/kg	
		1,4-Dichlorobenzene	3.47U µg/kg	3.47UJ µg/kg	
		Acenaphthene	3.47U µg/kg	3.47UJ µg/kg	
		Acenaphthylene	3.47U µg/kg	3.47UJ µg/kg	
		Anthracene	3.47U µg/kg	3.47UJ µg/kg	
		Benzo(a)anthracene	3.47U µg/kg	3.47UJ µg/kg	
		Benzo(a)pyrene	3.47U µg/kg	3.47UJ µg/kg	
		Benzo(b,k)fluoranthene	3.47U µg/kg	3.47UJ µg/kg	
		Benzo(g,h,i)perylene	3.47U µg/kg	3.47UJ µg/kg	
		Chrysene	3.47U µg/kg	3.47UJ µg/kg	
		Dibenzo(a,h)anthracene	3.47U µg/kg	3.47UJ µg/kg	
		Diethyl phthalate	3.47U µg/kg	3.47UJ µg/kg	
		Fluoranthene	3.47U µg/kg	3.47UJ µg/kg	
		Fluorene	3.47U µg/kg	3.47UJ µg/kg	
		Hexachlorobenzene	3.47U µg/kg	3.47UJ µg/kg	
		Indeno(1,2,3-c,d)pyrene	3.47U µg/kg	3.47UJ µg/kg	
		Naphthalene	3.47U µg/kg	3.47UJ µg/kg	
		Phenanthrene	3.47U µg/kg	3.47UJ µg/kg	
	Pyrene	3.47U µg/kg	3.47UJ µg/kg		

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
CPC-03-SET-230815	Metals	Chromium	0.454J µg/L	15U µg/L	MB contamination
		Nickel	1.72J µg/L	5U µg/L	
	PCBs	Aroclor 1016	0.12U µg/L	0.12UJ µg/L	Surrogate %R below CL
		Aroclor 1221	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1232	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1242	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1248	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1254	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1260	0.12U µg/L	0.12UJ µg/L	
	SVOCs	Diethyl phthalate	0.4J µg/L	0.562U µg/L	MB contamination
		Phenol	1.03J µg/L	1.12U µg/L	
TPH	TPH (C6-C35)	2.02U mg/L	2.02UJ mg/L	LCS %R below CL	
CPC-03-SW-230815	Metals	Chromium	0.618J µg/L	0.618U µg/L	EB contamination
		Zinc	4.89J µg/L	4.89U µg/L	
		Copper	2.07J µg/L	5U µg/L	MB contamination
		Nickel	1.66J µg/L	5U µg/L	
	SVOCs	Diethyl phthalate	0.503J µg/L	0.56U µg/L	MB contamination
Phenol		1.27 µg/L	1.27U µg/L		
CPC-04-SC-230815	Metals	Antimony	0.0892U mg/kg	R	MS %R below 30%
		Mercury	0.0543 mg/kg	0.0543J mg/kg	MS/MSD RPD above CL
	SVOCs	2,4-Dinitrophenol	10.7U µg/kg	10.7UJ µg/kg	LCS and/or LCSD %R below CL
		1,2,4-Trichlorobenzene	5.34U µg/kg	5.34UJ µg/kg	Surrogate %R below CL
		1,2-Dichlorobenzene	5.34U µg/kg	5.34UJ µg/kg	
		1,3-Dichlorobenzene	5.34U µg/kg	5.34UJ µg/kg	

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
		1,4-Dichlorobenzene	5.34U µg/kg	5.34UJ µg/kg	
		Acenaphthene	5.34U µg/kg	5.34UJ µg/kg	
		Acenaphthylene	5.34U µg/kg	5.34UJ µg/kg	
		Anthracene	5.34U µg/kg	5.34UJ µg/kg	
		Benzo(a)anthracene	5.34U µg/kg	5.34UJ µg/kg	
		Benzo(a)pyrene	5.34U µg/kg	5.34UJ µg/kg	
		Benzo(b,k)fluoranthene	5.34U µg/kg	5.34UJ µg/kg	
		Benzo(g,h,i)perylene	5.34U µg/kg	5.34UJ µg/kg	
		Chrysene	5.34U µg/kg	5.34UJ µg/kg	
		Dibenzo(a,h)anthracene	5.34U µg/kg	5.34UJ µg/kg	
		Diethyl phthalate	5.34U µg/kg	5.34UJ µg/kg	
		Fluoranthene	5.34U µg/kg	5.34UJ µg/kg	
		Fluorene	5.34U µg/kg	5.34UJ µg/kg	
		Hexachlorobenzene	5.34U µg/kg	5.34UJ µg/kg	
		Indeno(1,2,3-c,d)pyrene	5.34U µg/kg	5.34UJ µg/kg	
		Naphthalene	5.34U µg/kg	5.34UJ µg/kg	
		Phenanthrene	5.34U µg/kg	5.34UJ µg/kg	
		Pyrene	5.34U µg/kg	5.34UJ µg/kg	
CPC-04-SET-230815	Metals	Zinc	1.32J µg/L	1.32U µg/L	EB contamination
		Chromium	0.511J µg/L	15U µg/L	MB contamination
		Nickel	1.43J µg/L	5U µg/L	
	SVOCs	Diethyl phthalate	0.409J µg/L	0.562U µg/L	MB contamination

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason	
		Phenol	0.898J µg/L	1.12U µg/L		
	TPH	TPH (C6-C35)	2.06U mg/L	2.06UJ mg/L	LCS %R below CL	
CPC-04-SW-230815	Metals	Chromium	0.851J µg/L	0.851U µg/L	EB contamination	
		Zinc	4.2J µg/L	4.2U µg/L		
		Copper	2.16J µg/L	5U µg/L	MB contamination	
		Nickel	1.71J µg/L	5U µg/L		
	SVOCs	Diethyl phthalate	0.462J µg/L	0.561U µg/L	MB contamination	
		Phenol	1.39 µg/L	1.39U µg/L		
CPC-05-SC-230816	Metals	Antimony	0.0733U mg/kg	R	MS %R below 30%	
		Mercury	0.0506 mg/kg	0.0506J mg/kg	MS/MSD RPD above CL	
	SVOCs	2,4-Dinitrophenol	8.71U µg/kg	8.71UJ µg/kg	LCS and/or LCSD %R below CL	
CPC-05-SET-230816	Metals	Chromium	0.43J µg/L	15U µg/L	MB contamination	
		Nickel	1.45J µg/L	5U µg/L		
	PCBs	Aroclor 1016	0.12U µg/L	0.12UJ µg/L	Surrogate %R below CL	
		Aroclor 1221	0.12U µg/L	0.12UJ µg/L		
		Aroclor 1232	0.12U µg/L	0.12UJ µg/L		
		Aroclor 1242	0.12U µg/L	0.12UJ µg/L		
		Aroclor 1248	0.12U µg/L	0.12UJ µg/L		
		Aroclor 1254	0.12U µg/L	0.12UJ µg/L		
		Aroclor 1260	0.12U µg/L	0.12UJ µg/L		
	SVOCs	Diethyl phthalate	0.492J µg/L	0.562U µg/L	MB contamination	
		Phenol	0.868J µg/L	1.12U µg/L		
		TPH	TPH (C6-C35)	2.04U mg/L	2.04UJ mg/L	LCS %R below CL
	CPC-05-SW-230816	Metals	Chromium	0.96J µg/L	15U µg/L	MB contamination

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
	PCBs	Aroclor 1016	0.12U µg/L	0.12UJ µg/L	Surrogate %R below CL
		Aroclor 1221	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1232	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1242	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1248	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1254	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1260	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1262	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1268	0.12U µg/L	0.12UJ µg/L	
		SVOCs	Diethyl phthalate	0.509J µg/L		0.561U µg/L	MB contamination
Phenol	1.48 µg/L		1.48U µg/L		
CPC-06-SC-230816	Metals	Antimony	0.0756U mg/kg	R	MS %R below 30%
		Mercury	0.0271 mg/kg	0.0271J mg/kg	MS/MSD RPD above CL
	SVOCs	2,4-Dinitrophenol	9.35U µg/kg	9.35UJ µg/kg	LCS and/or LCSD %R below CL
		1,2,4-Trichlorobenzene	4.67U µg/kg	4.67UJ µg/kg	Surrogate %R below CL
		1,2-Dichlorobenzene	4.67U µg/kg	4.67UJ µg/kg	
		1,3-Dichlorobenzene	4.67U µg/kg	4.67UJ µg/kg	
		1,4-Dichlorobenzene	4.67U µg/kg	4.67UJ µg/kg	
		Acenaphthene	4.67U µg/kg	4.67UJ µg/kg	
		Acenaphthylene	4.67U µg/kg	4.67UJ µg/kg	
		Anthracene	4.67U µg/kg	4.67UJ µg/kg	
Benzo(a)anthracene	4.67U µg/kg	4.67UJ µg/kg			

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
		Benzo(a)pyrene	4.67U µg/kg	4.67UJ µg/kg	
		Benzo(b,k)fluoranthene	4.67U µg/kg	4.67UJ µg/kg	
		Benzo(g,h,i)perylene	4.67U µg/kg	4.67UJ µg/kg	
		Chrysene	4.67U µg/kg	4.67UJ µg/kg	
		Dibenzo(a,h)anthracene	4.67U µg/kg	4.67UJ µg/kg	
		Diethyl phthalate	4.67U µg/kg	4.67UJ µg/kg	
		Fluoranthene	4.67U µg/kg	4.67UJ µg/kg	
		Fluorene	4.67U µg/kg	4.67UJ µg/kg	
		Hexachlorobenzene	4.67U µg/kg	4.67UJ µg/kg	
		Indeno(1,2,3-c,d)pyrene	4.67U µg/kg	4.67UJ µg/kg	
		Naphthalene	4.67U µg/kg	4.67UJ µg/kg	
		Phenanthrene	4.67U µg/kg	4.67UJ µg/kg	
		Pyrene	4.67U µg/kg	4.67UJ µg/kg	
CPC-06-SET-230816	Metals	Chromium	0.458J µg/L	15U µg/L	MB contamination
		Copper	1.26J µg/L	5U µg/L	
		Nickel	1.42J µg/L	5U µg/L	
	SVOCs	Diethyl phthalate	0.459J µg/L	0.562U µg/L	MB contamination
		Phenol	1.01J µg/L	1.12U µg/L	
TPH	TPH (C6-C35)	2.06U mg/L	2.06UJ mg/L	LCS %R below CL	
CPC-06-SW-230816	Metals	Chromium	1J µg/L	15U µg/L	MB contamination
		Copper	1.9J µg/L	5U µg/L	
		Nickel	1.58J µg/L	5U µg/L	
	PCBs	Aroclor 1016	0.12U µg/L	0.12UJ µg/L	Surrogate %R below CL
		Aroclor 1221	0.12U µg/L	0.12UJ µg/L	

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
		Aroclor 1232	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1242	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1248	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1254	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1260	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1262	0.12U µg/L	0.12UJ µg/L	
		Aroclor 1268	0.12U µg/L	0.12UJ µg/L	
	SVOCs	Diethyl phthalate	0.469J µg/L	0.559U µg/L	MB contamination
		Phenol	1.37 µg/L	1.37U µg/L	
CPC-07-SC-230816	Metals	Antimony	0.0815U mg/kg	R	MS %R below 30%
		Mercury	0.0447 mg/kg	0.0447J mg/kg	MS/MSD RPD above CL
	SVOCs	2,4-Dinitrophenol	9.84U µg/kg	9.84UJ µg/kg	LCS and/or LCSD %R below CL
		1,2,4-Trichlorobenzene	4.92U µg/kg	4.92UJ µg/kg	Surrogate %R below CL
		1,2-Dichlorobenzene	4.92U µg/kg	4.92UJ µg/kg	
		1,3-Dichlorobenzene	4.92U µg/kg	4.92UJ µg/kg	
		1,4-Dichlorobenzene	4.92U µg/kg	4.92UJ µg/kg	
		Acenaphthene	4.92U µg/kg	4.92UJ µg/kg	
		Acenaphthylene	4.92U µg/kg	4.92UJ µg/kg	
		Anthracene	4.92U µg/kg	4.92UJ µg/kg	
		Benzo(a)anthracene	4.92U µg/kg	4.92UJ µg/kg	
		Benzo(a)pyrene	4.92U µg/kg	4.92UJ µg/kg	
	Benzo(b,k)fluoranthene	4.92U µg/kg	4.92UJ µg/kg		

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
		Benzo(g,h,i)perylene	4.92U µg/kg	4.92UJ µg/kg	
		Chrysene	4.92U µg/kg	4.92UJ µg/kg	
		Dibenzo(a,h)anthracene	4.92U µg/kg	4.92UJ µg/kg	
		Diethyl phthalate	4.92U µg/kg	4.92UJ µg/kg	
		Fluoranthene	4.92U µg/kg	4.92UJ µg/kg	
		Fluorene	4.92U µg/kg	4.92UJ µg/kg	
		Hexachlorobenzene	4.92U µg/kg	4.92UJ µg/kg	
		Indeno(1,2,3-c,d)pyrene	4.92U µg/kg	4.92UJ µg/kg	
		Naphthalene	4.92U µg/kg	4.92UJ µg/kg	
		Phenanthrene	4.92U µg/kg	4.92UJ µg/kg	
		Pyrene	4.92U µg/kg	4.92UJ µg/kg	
CPC-07-SET-230816	Metals	Chromium	0.473J µg/L	15U µg/L	MB contamination
		Copper	1.25J µg/L	5U µg/L	
		Nickel	1.46J µg/L	5U µg/L	
	SVOCs	Diethyl phthalate	0.398J µg/L	0.562U µg/L	MB contamination
		Phenol	1.43 µg/L	1.43U µg/L	
TPH	TPH (C6-C35)	2.06U mg/L	2.06UJ mg/L	LCS %R below CL	
CPC-07-SW-230816	Metals	Chromium	0.632J µg/L	15U µg/L	MB contamination
		Copper	2.32J µg/L	5U µg/L	
		Nickel	1.53J µg/L	5U µg/L	
	SVOCs	Diethyl phthalate	0.457J µg/L	0.558U µg/L	MB contamination
		Phenol	1.21 µg/L	1.21U µg/L	
CPC-EQ BLK-230815	Metals	Copper	0.778J µg/L	1U µg/L	MB contamination
		Nickel	0.284J µg/L	1U µg/L	

Notes:

%R= percent recovery
CL= control limit
EB= equipment blank
MB= method blank
 $\mu\text{g}/\text{kg}$ = microgram per kilogram
 $\mu\text{g}/\text{L}$ = microgram per liter
 mg/kg = milligram per kilogram
 mg/L = milligram per liter

References

- Anchor QEA, LLC, 2023. *Draft Sampling and Analysis Plan for the Cedar Port Channel Project, Deepwater Project Engineering*. August 2023.
- USEPA (U.S. Environmental Protection Agency), 1986. *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*. Office of Solid Waste and Emergency Response. EPA-530/SW-846.
- USEPA 2020a. National Functional Guidelines for Organic Superfund Methods Data Review. Office of Superfund Remediation and Technology Innovation. United States Environmental Protection Agency. EPA-540-R-20-006. November 2020.
- USEPA 2020b. National Functional Guidelines for Inorganic Superfund Methods Data Review. Office of Superfund Remediation and Technology Innovation. United States Environmental Protection Agency. EPA-540-R-20-006. November 2020.
- USEPA 2020c. National Functional Guidelines for High Resolution Superfund Methods Data Review. Office of Superfund Remediation and Technology Innovation. United States Environmental Protection Agency. EPA-540-R-20-005. November 2020.

Data Validation Report – EPA Stage 2A

June 12, 2024

Project: Cedar Port – Deepwater Project Engineering

Project Number: 232823-01.01

Validation ID: AQ-2024-0097

This report summarizes the review of analytical results for two water samples, two elutriate samples, two sediment samples, and one equipment blank sample collected April 25, 2024. The samples were collected by Anchor QEA and submitted to North Water District Laboratory Services, Inc. (NWDLS) in Conroe, TX, A&B Labs (A&B) in Houston, TX, APPL Inc. (APPL) in Clovis, CA, and ALS Environmental (ALS) in Kelso, WA. The following analytical parameter results were reviewed in this report:

- Ammonia (NH₃) by United States Environmental Protection Agency (USEPA) methods 350.1
- Grain Size (GS) by ASTM International (ASTM) method D4464
- Total and dissolved metals by USEPA methods 200.8, 245.1, and 7471B
- Pesticides (OCP) by USEPA method 8081
- Polychlorinated biphenyl Aroclors (PCBs) by USEPA method 8082
- Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans (D/F) by USEPA method 8290
- Semivolatile organic compounds (SVOCs) by USEPA method 8270
- Total organic carbon (TOC) by Standard Method (SM) 5310 and USEPA method 9060
- Total petroleum hydrocarbons (TPH) by Texas Natural Resource Conservation Commission (TNRCC) method 1005
- Total solids (TS) by SM 2540G

The GS and TOC methods used by the laboratory differed from those suggested in the SAP, however all methods used are deemed comparable and acceptable for use for these analyses. Laboratory sample data groups (SDGs) 24D3569, 24050335, 99246, K2404513 were reviewed in this report. Sample IDs, matrices, and analyses are presented in Table 1.

Table 1
Sample IDs, Matrices, and Analyses

Sample ID	NWDLS Sample ID	APPL Sample ID	A&B Sample ID	ALS Sample ID	Matrix	Analyses
CPC-EQ BLK	24D3569-01	--	--	--	Water	Dissolved metals, total Hg
CPC-08-SW-4-25-24	24D3569-02	--	24050335.01	--	Water	Dissolved metals, total Hg, NH ₃ , TOC, OCP, PCBs, SVOCs, TPH
CPC-09-SW-4-25-24	24D3569-03	--	24050335.02	--	Water	Dissolved metals, total Hg, NH ₃ , TOC, OCP, PCBs, SVOCs, TPH

Sample ID	NWDLS Sample ID	APPL Sample ID	A&B Sample ID	ALS Sample ID	Matrix	Analyses
CPC-08-SET-4-25-24	24D3569-04	--	24050335.03	--	Elutriate	Dissolved metals, total Hg, NH ₃ , TOC, OCP, PCBs, SVOCs, TPH
CPC-09-SET-4-25-24	24D3569-05	--	24050335.04	--	Elutriate	Dissolved metals, total Hg, NH ₃ , TOC, OCP, PCBs, SVOCs, TPH
CPC-08-SC-4-25-24	24D3569-06	BA50951	24050335.05	K2404513-001	Sediment	Total metals, total Hg, OCP, PCBs, SVOC, TPH, D/F, GS, NH ₃ , TOC, TS
CPC-09-SC-4-25-24	24D3569-07	BA50952	24050335.06	K2404513-002	Sediment	Total metals, total Hg, OCP, PCBs, SVOC, TPH, D/F, GS, NH ₃ , TOC, TS

Data Validation and Qualifications

The following comments refer to the laboratory's performance in meeting the quality assurance/quality control (QC) guidelines outlined in the analytical procedures. Laboratory results were reviewed using the laboratory control limits and the following guidelines:

- *Draft Sampling and Analysis Plan for the Cedar Port Channel Project, Deepwater Project Engineering (SAP; Anchor QEA 2023)*
- *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods (SW-846, Third Edition; USEPA 1986)*
- *National Functional Guidelines for Organic Superfund Methods Data Review (USEPA 2020a)*
- *National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA 2020b)*
- *National Functional Guidelines for High Resolution Superfund Methods Data Review (USEPA 2020c)*

Unless noted in this report, laboratory results for the samples listed above were within QC criteria.

Field Documentation

The chain-of-custody forms were signed by NWDLS, APPL, A&B, and ALS at the time of sample receipt. Samples were received within the recommended temperature range and in good condition.

Sample Preservation and Holding Times

Samples were appropriately preserved and analyzed within holding times.

Laboratory Method Blanks

Laboratory method blanks were analyzed at the required frequencies. All method blanks were free of target analytes with the following exceptions.

- SDG 24D3569
 - SVOCs: The method blanks associated with prep batches BHE0094 and BHE0409 were above the detection limit for phenol and diethyl phthalate. Associated detected batch sample results were not significantly greater than (greater than ten times for common lab contaminants and greater than five times for all other compounds) the method blank and were qualified with a "U" to indicate potential laboratory contamination.
 - PCBs: The method blank associated with prep batch BHE0150 was above the detection limit for total PCB aroclors. Associated batch sample results were below detection, so no data were qualified.
 - Ammonia: The method blank associated with prep batch BHE0665 was above the detection limit. No sample results were reported from this batch, so no data were qualified.
 - Dissolved metals: The method blank associated with prep batch BHE1117 was above the detection limit for copper, nickel, and zinc. The method blank associated with prep batch BHE3260 was above the detection limit for antimony, copper, nickel, and zinc. Associated detected batch sample results not significantly greater than (greater than five times) the method blank were qualified with a "U" to indicate potential laboratory contamination.
 - Total metals: The method blank associated with prep batch BHE1933 was above the detection limit for copper. Associated detected sample results were significantly greater than (greater than five times) the method blank, so no data were qualified.

Field Quality Control

Equipment Blanks

One equipment blank was collected and analyzed for metals in association with these sample sets. All associated sample results were either significantly greater than (5x greater than), below detection, or had been previously qualified "U" due to method blank contamination, so no data was qualified.

Detected equipment blank results are summarized in Table 2.

Table 2
Equipment Blank Results

Sample ID	Analyte	Result
CPC-EQ BLK	Dissolved arsenic	0.102 µg/L

Note:
µg/L: micrograms per liter

Surrogate and Labeled Compound Recovery

All surrogate and labeled compound recoveries were within the laboratory control limits with the following exceptions:

- Pesticides: The surrogate decachlorobiphenyl (DCB) recovered below the control limit in the analyses of samples CPC-08-SW-4-25-24, CPC-09-SET-4-25-24, and CPC-09-SW-4-25-24. Additionally, tetrachloro-m-xylene also recovered below the control limit in the analysis of sample CPC-09-SW-4-25-24. Associated sample results have been qualified "UJ" to indicate a potential low bias.
- PCBs: The surrogate decachlorobiphenyl (DCB) recovered below the control limit in the analyses of all samples. Associated sample results have been qualified "UJ" to indicate a potential low bias.
- SVOCs:
 - The surrogates p-terphenyl-d14 and nitrobenzene-d5 recovered below the control in the analysis of CPC-08-SC-4-25-24. Since the other four surrogates recovered within limits, no data were qualified.
 - The surrogates 2,4,6-tribromophenol, p-terphenyl-d14, and 2-fluorobiphenyl recovered below the control limit in the analysis of CPC-09-SC-4-25-24. Associated sample results have been qualified "UJ" to indicate a potential low bias.

Laboratory Control Samples and Laboratory Control Sample Duplicates

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSDs) were analyzed at the required frequencies. All LCS/LCSD spike recoveries were within project-required control limits with the following exceptions.

- TPH: The LCSD associated with batch Qb240503167 recovered below the control limit for the C28-C35 range. Associated batch sample results have been qualified "J" to indicate a potential low bias.
- D/F: Six dioxin/furans in the LCSD, and four dioxin/furans in the LCS/LCSD, associated with batch 275036 recovered above the control limit. Associated detected batch sample results were qualified "J" to indicate a potential high bias.
- PCBs: The LCS/LCSD associated with batch BHE0155 recovered below the control limit for Aroclor 1016, Aroclor 1260, and total PCB Aroclors. Associated batch sample results have been qualified "UJ" to indicate a potential low bias.
- Pesticides: The LCS/LCSD associated with batch BHE0407 had an RPD value above the control limit for endrin aldehyde. Since recoveries were within control limits no data were qualified.
- SVOCs: The LCS associated with batch BHE0094 recovered below the control limit, and had an LCS/LCSD RPD value above the control limit, for 2,4-dinitrophenol. Associated batch sample results have been qualified "UJ" to indicate a potential bias.

Matrix Spike and Matrix Spike Duplicate Samples

Matrix spike (MS) and matrix spike duplicate (MSD) samples were at the required frequencies. There were no qualifications for MS/MSD recoveries that were above the control limit where the associated sample results were non-detect. All MS/MSD spike recoveries were within project-required control limits with the following exceptions.

- Pesticides: The MS analyzed on sample CPC-08-SC-4-25-24 recovered above the control limit for beta-hexachlorocyclohexane (BHC), the MSD recovered above the control limit for aldrin, and the MS and MSD recovered above the control limit for endrin. Associated parent sample results were below detection, so no data was qualified.
- PCBs:
 - The MS and MSD analyzed on sample CPC-08-SC-4-25-24 recovered below the control limit for Aroclor 1260, and the MSD recovered below the control limit for total PCB aroclors. Associated parent sample results have been qualified "UJ" to indicate a potential low bias.
 - The MS and MSD analyzed on sample CPC-08-SET-4-25-24 recovered below the control limit for Aroclor 1260. The associated parent sample result was not reported for this analyte, so no data was qualified.
 - The MS and MSD analyzed on sample CPC-08-SW-4-25-24 recovered below the control limit for Aroclor 1260 and total PCB aroclors. Associated parent sample results have been qualified "UJ" to indicate a potential low bias.
- SVOCs:
 - The MS analyzed on sample CPC-09-SC-4-25-24 recovered below the control limit for dibenzo(a,h)anthracene, and the MS/MSD recovered below the control limit for 2,4-dinitrophenol. Associated parent sample results have been qualified "UJ" to indicate a potential low bias.
 - The MS and MSD analyzed on sample CPC-09-SW-4-25-24 recovered above the control limit for 2,4-dinitrophenol. The associated parent sample result was below detection, so no data was qualified.

Laboratory Duplicates

Laboratory duplicates were analyzed at the required frequency. Duplicate results were evaluated by the difference between them when the parent sample or duplicate result was less than five times the RL because RPD values can become exaggerated as they approach this level. The difference value control limits are \pm RL for aqueous matrices and \pm 2x RL for solid matrices. All duplicate RPD or difference values were within project-required control limits. Duplicate RPD or difference values on non-project samples were not evaluated.

Standard Reference Material

A standard reference material (SRM) was analyzed for total solids. Results were evaluated against project control limits and the SRM recovery was within control limits.

Estimated Maximum Possible Concentration

Some PCB congener and D/F results were flagged as estimated maximum possible concentration (EMPC) due to results that do not meet all method qualitative criteria for positive identification. Results were reported as non-detects at the EMPC.

Method Detection Limits, Estimated Detection Limits, and Reporting Limits

Method detection limits (MDLs), estimated detection limits (EDLs), and RLs were acceptable as reported. Non-detect values were reported using the laboratory RL. For analytes affected by field or method blank contamination, values were reported as non-detect at the EDL or MRL. Values were reported as undiluted or when diluted, the reporting limit reflects the dilution factor.

Overall Assessment

As was determined by this evaluation, the laboratory followed the specified analytical methods and all requested sample analyses were completed. Accuracy was acceptable as demonstrated by the surrogate, labeled compound, LCS, LCSD, MS, and MSD recovery values, with the exceptions noted above. Precision was acceptable as demonstrated by the LCS/LCSD, laboratory, and MS/MSD RPD or difference values, with the exceptions noted above. All data are acceptable as reported or as qualified and completeness was 100%. Table 3 summarizes the qualifiers applied to the sample results reviewed in this report.

Data Qualifier Definitions

- J Indicates an estimated value
- U Indicates the compound or analyte was analyzed for but not detected at or above the specified limit.
- UJ Indicates the compound or analyte was analyzed for but not detected and the specified limit reported is estimated.

Table 3
Data Qualifier Summary

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
CPC-08-SC-4-25-24	D/F	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	490 pg/g	490J pg/g	LCSD %R above CL
		1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	19 pg/g	19J pg/g	LCS/LCSD %R above CL
	PCBs	Aroclor 1016	2U ug/kg	2UJ ug/kg	LCS/LCSD %R below CL; surrogate %R below CL
		Aroclor 1221	2U ug/kg	2UJ ug/kg	
		Aroclor 1232	2U ug/kg	2UJ ug/kg	
		Aroclor 1242	2U ug/kg	2UJ ug/kg	
		Aroclor 1248	2U ug/kg	2UJ ug/kg	MS/MSD %R below CL; LCS/LCSD %R below CL; surrogate %R below CL
		Aroclor 1254	2U ug/kg	2UJ ug/kg	
		Aroclor 1260	2U ug/kg	2UJ ug/kg	
		Aroclor 1262	2U ug/kg	2UJ ug/kg	
		Aroclor 1268	2U ug/kg	2UJ ug/kg	MSD %R below CL; surrogate %R below CL
	Total PCB Aroclors (reported, not calculated)	2U ug/kg	2UJ ug/kg		
	SVOCs	2,4-Dinitrophenol	8.73U ug/kg	8.73UJ ug/kg	LCS %R below CL; LCS/LCSD RPD above CL
		Diethyl phthalate	3.02J ug/kg	4.36U ug/kg	MB contamination
Phenol		9.5 ug/kg	9.5U ug/kg	MB contamination	
TPH	Total petroleum hydrocarbons (C29-C35)	21.1J mg/kg	21.1J mg/kg	LCSD %R above CL	
	Total petroleum hydrocarbons (C6-C35)	38.9J mg/kg	38.9J mg/kg	LCSD %R above CL	
CPC-08-SET-4-25-24	Metals	Dissolved copper	1.42J ug/L	5U ug/L	MB contamination
	PCBs	Total PCB Aroclors (reported, not calculated)	0.12U ug/L	0.12UJ ug/L	Surrogate %R below CL
	SVOCs	Diethyl phthalate	0.496J ug/L	0.562U ug/L	MB contamination
		Phenol	3.17 ug/L	3.17U ug/L	MB contamination
CPC-08-SW-4-25-24	Metals	Dissolved copper	1.14J ug/L	5U ug/L	MB contamination
		Dissolved zinc	2.64J ug/L	10U ug/L	
	PCBs	Total PCB Aroclors (reported, not calculated)	0.12U ug/L	0.12UJ ug/L	MS/MSD %R below CL; surrogate %R below CL
	Pesticides	4,4'-DDD (p,p'-DDD)	0.00599U ug/L	0.00599UJ ug/L	Surrogate %R below CL
4,4'-DDE (p,p'-DDE)		0.00599U ug/L	0.00599UJ ug/L		

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
		4,4'-DDT (p,p'-DDT)	0.00599U ug/L	0.00599UJ ug/L	
		Aldrin	0.00599U ug/L	0.00599UJ ug/L	
		Chlordane	0.00599U ug/L	0.00599UJ ug/L	
		Chlordane, alpha- (Chlordane, cis-)	0.00599U ug/L	0.00599UJ ug/L	
		Chlordane, gamma-	0.00599U ug/L	0.00599UJ ug/L	
		Dieldrin	0.00599U ug/L	0.00599UJ ug/L	
		Endosulfan sulfate	0.00599U ug/L	0.00599UJ ug/L	
		Endosulfan, alpha- (I)	0.00599U ug/L	0.00599UJ ug/L	
		Endosulfan, beta (II)	0.00599U ug/L	0.00599UJ ug/L	
		Endrin	0.00599U ug/L	0.00599UJ ug/L	
		Endrin aldehyde	0.00599U ug/L	0.00599UJ ug/L	
		Endrin ketone	0.00599U ug/L	0.00599UJ ug/L	
		Heptachlor	0.00599U ug/L	0.00599UJ ug/L	
		Heptachlor epoxide	0.00599U ug/L	0.00599UJ ug/L	
		Hexachlorocyclohexane (BHC), alpha-	0.00599U ug/L	0.00599UJ ug/L	
		Hexachlorocyclohexane (BHC), beta-	0.00599U ug/L	0.00599UJ ug/L	
		Hexachlorocyclohexane (BHC), delta-	0.00599U ug/L	0.00599UJ ug/L	
		Hexachlorocyclohexane (BHC), gamma- (Lindane)	0.00599U ug/L	0.00599UJ ug/L	
		Toxaphene	0.3U ug/L	0.3UJ ug/L	
		SVOCs	Diethyl phthalate	0.592 ug/L	0.592U ug/L	MB contamination
Phenol			2.75 ug/L	2.75U ug/L	
CPC-09-SC-4-25-24	D/F	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	220 pg/g	220J pg/g	LCSD %R above CL

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason	
		1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	12J ug/g	12J ug/g	LCS/LCSD %R above CL; EMPC	
	PCBs	Aroclor 1016	2U ug/kg	2UJ ug/kg	LCS/LCSD %R below CL; surrogate %R below CL	
		Aroclor 1221	2U ug/kg	2UJ ug/kg		
		Aroclor 1232	2U ug/kg	2UJ ug/kg		
		Aroclor 1242	2U ug/kg	2UJ ug/kg		
		Aroclor 1248	2U ug/kg	2UJ ug/kg		
		Aroclor 1254	2U ug/kg	2UJ ug/kg		
		Aroclor 1260	2U ug/kg	2UJ ug/kg		
		Aroclor 1262	2U ug/kg	2UJ ug/kg		
		Aroclor 1268	2U ug/kg	2UJ ug/kg		
		Total PCB Aroclors (reported, not calculated)	2U ug/kg	2UJ ug/kg	Surrogate %R below CL	
	SVOCs	1,2,4-Trichlorobenzene	4.01U ug/kg	4.01UJ ug/kg	Surrogate %R below CL	
		1,2-Dichlorobenzene	4.01U ug/kg	4.01UJ ug/kg		
		1,3-Dichlorobenzene	4.01U ug/kg	4.01UJ ug/kg		
		1,4-Dichlorobenzene	4.01U ug/kg	4.01UJ ug/kg		
		2,4-Dichlorophenol	8.02U ug/kg	8.02UJ ug/kg		
		2,4-Dimethylphenol	8.02U ug/kg	8.02UJ ug/kg		
			2,4-Dinitrophenol	8.02U ug/kg	8.02UJ ug/kg	MS/MSD %R below CL; LCS %R below CL; LCS/LCSD RPD above CL; surrogate %R below CL
			Acenaphthene	4.01U ug/kg	4.01UJ ug/kg	Surrogate %R below CL
			Acenaphthylene	4.01U ug/kg	4.01UJ ug/kg	
			Anthracene	4.01U ug/kg	4.01UJ ug/kg	
			Benzo(a)anthracene	4.01U ug/kg	4.01UJ ug/kg	
			Benzo(a)pyrene	4.01U ug/kg	4.01UJ ug/kg	
			Benzo(b,k)fluoranthene	4.01U ug/kg	4.01UJ ug/kg	
			Benzo(g,h,i)perylene	4.01U ug/kg	4.01UJ ug/kg	
			Chrysene	4.01U ug/kg	4.01UJ ug/kg	
			Dibenzo(a,h)anthracene	4.01U ug/kg	4.01UJ ug/kg	MS %R below CL; surrogate %R below CL
		Diethyl phthalate	2.88J ug/kg	4.01UJ ug/kg	MB contamination; surrogate %R below CL	
		Fluoranthene	4.01U ug/kg	4.01UJ ug/kg	Surrogate %R below CL	
		Fluorene	4.01U ug/kg	4.01UJ ug/kg		
		Hexachlorobenzene	4.01U ug/kg	4.01UJ ug/kg		

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
		Indeno(1,2,3-c,d)pyrene	4.01U ug/kg	4.01UJ ug/kg	
		Naphthalene	4.01U ug/kg	4.01UJ ug/kg	
		Pentachlorophenol	8.02U ug/kg	8.02UJ ug/kg	
		Phenanthrene	4.01U ug/kg	4.01UJ ug/kg	
		Phenol	7.32J ug/kg	8.02UJ ug/kg	MB contamination; surrogate %R below CL
		Pyrene	4.01U ug/kg	4.01UJ ug/kg	Surrogate %R below CL
	TPH	Total petroleum hydrocarbons (C29-C35)	10.9J mg/kg	10.9J mg/kg	LCSD %R above CL
		Total petroleum hydrocarbons (C6-C35)	35.3J mg/kg	35.3J mg/kg	
CPC-09-SET-4-25-24	PCBs	Total PCB Aroclors (reported, not calculated)	0.12U ug/L	0.12UJ ug/L	Surrogate %R below CL
	Pesticides	4,4'-DDD (p,p'-DDD)	0.006U ug/L	0.006UJ ug/L	Surrogate %R below CL
		4,4'-DDE (p,p'-DDE)	0.006U ug/L	0.006UJ ug/L	
		4,4'-DDT (p,p'-DDT)	0.006U ug/L	0.006UJ ug/L	
		Aldrin	0.006U ug/L	0.006UJ ug/L	
		Chlordane	0.006U ug/L	0.006UJ ug/L	
		Chlordane, alpha- (Chlordane, cis-)	0.006U ug/L	0.006UJ ug/L	
		Chlordane, gamma-	0.006U ug/L	0.006UJ ug/L	
		Dieldrin	0.006U ug/L	0.006UJ ug/L	
		Endosulfan sulfate	0.006U ug/L	0.006UJ ug/L	
		Endosulfan, alpha- (I)	0.006U ug/L	0.006UJ ug/L	
		Endosulfan, beta (II)	0.006U ug/L	0.006UJ ug/L	
		Endrin	0.006U ug/L	0.006UJ ug/L	
		Endrin aldehyde	0.006U ug/L	0.006UJ ug/L	
		Endrin ketone	0.006U ug/L	0.006UJ ug/L	
		Heptachlor	0.006U ug/L	0.006UJ ug/L	
		Heptachlor epoxide	0.006U ug/L	0.006UJ ug/L	
		Hexachlorocyclohexane (BHC), alpha-	0.006U ug/L	0.006UJ ug/L	
		Hexachlorocyclohexane (BHC), beta-	0.006U ug/L	0.006UJ ug/L	
		Hexachlorocyclohexane (BHC), delta-	0.006U ug/L	0.006UJ ug/L	
	Hexachlorocyclohexane (BHC), gamma- (Lindane)	0.006U ug/L	0.006UJ ug/L		
Toxaphene	0.3U ug/L	0.3UJ ug/L			
SVOCs	Diethyl phthalate	0.388J ug/L	0.562U ug/L	MB contamination	

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
		Phenol	3.32 ug/L	3.32U ug/L	
CPC-09-SW-4-25-24	Metals	Dissolved zinc	1.97J ug/L	10U ug/L	MB contamination
	PCBs	Total PCB Aroclors (reported, not calculated)	0.12U ug/L	0.12UJ ug/L	Surrogate %R below CL
	Pesticides	4,4'-DDD (p,p'-DDD)	0.00598U ug/L	0.00598UJ ug/L	Surrogate %R below CL
		4,4'-DDE (p,p'-DDE)	0.00598U ug/L	0.00598UJ ug/L	
		4,4'-DDT (p,p'-DDT)	0.00598U ug/L	0.00598UJ ug/L	
		Aldrin	0.00598U ug/L	0.00598UJ ug/L	
		Chlordane	0.00598U ug/L	0.00598UJ ug/L	
		Chlordane, alpha- (Chlordane, cis-)	0.00598U ug/L	0.00598UJ ug/L	
		Chlordane, gamma-	0.00598U ug/L	0.00598UJ ug/L	
		Dieldrin	0.00598U ug/L	0.00598UJ ug/L	
		Endosulfan sulfate	0.00598U ug/L	0.00598UJ ug/L	
		Endosulfan, alpha- (I)	0.00598U ug/L	0.00598UJ ug/L	
		Endosulfan, beta (II)	0.00598U ug/L	0.00598UJ ug/L	
		Endrin	0.00598U ug/L	0.00598UJ ug/L	
		Endrin aldehyde	0.00598U ug/L	0.00598UJ ug/L	
		Endrin ketone	0.00598U ug/L	0.00598UJ ug/L	
		Heptachlor	0.00598U ug/L	0.00598UJ ug/L	
		Heptachlor epoxide	0.00598U ug/L	0.00598UJ ug/L	
		Hexachlorocyclohexane (BHC), alpha-	0.00598U ug/L	0.00598UJ ug/L	
		Hexachlorocyclohexane (BHC), beta-	0.00598U ug/L	0.00598UJ ug/L	
Hexachlorocyclohexane (BHC), delta-	0.00598U ug/L	0.00598UJ ug/L			
Hexachlorocyclohexane (BHC), gamma- (Lindane)	0.00598U ug/L	0.00598UJ ug/L			

Sample ID	Parameter	Analyte	Reported Result	Qualified Result	Reason
	SVOCs	Toxaphene	0.299U ug/L	0.299UJ ug/L	MB contamination
		Diethyl phthalate	0.644 ug/L	0.644U ug/L	
		Phenol	2.52 ug/L	2.52U ug/L	
CPC-EQ BLK	Metals	Dissolved nickel	0.207J ug/L	1U ug/L	MB contamination
		Dissolved zinc	1.06J ug/L	2U ug/L	

Notes:

%R= percent recovery

CL= control limit

MB= method blank

µg/kg= microgram per kilogram

µg/L= microgram per liter

mg/kg = milligram per kilogram

mg/L= milligram per liter

pg/g = picogram per gram

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