DRAFT CONTAMINATION SCREENING EVALUATION REPORT

Florida Department of Transportation

District One

S.R. 789 (Longboat Key) PD&E Study

Limits of Project: From North Shore Road to Coquina Park Entrance

Manatee County, Florida

Financial Management Number: 436676-1-22-01

ETDM Number: 14382

Date: February 2026

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated May 26, 2022 and executed by the Federal Highway Administration and FDOT.

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DEFINITIONS, ACRONYMS, AND ABBREVIATIONS

ACM	Asbestos Containing Material
APLUS	Aerial Photo Look Up System
CAR	Contamination Assessment/Remediation
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
Contaminant	Any physical, chemical, biological, or radiological substance present in any medium which may result in adverse effects to human health or the environment or which creates an adverse nuisance, organoleptic, or aesthetic condition in groundwater.
Contaminated Site	Any site with hazardous substances, pollutants, or contaminants that are harmful or likely to be harmful to human health or the environment.
Contamination	The presence of any contaminant in surface water, groundwater, soil, sediment, or upon the land, in concentrations that exceed the applicable Cleanup Target Levels (CTLs) specified in **Chapter 62-777, F.A.C.**, or water quality standards in **Chapter 62-302 or 62-520, F.A.C.**, or in concentrations that may result in contaminated sediment.
CSER	Contamination Screening Evaluation Report
DCIC	District Contamination Impact Coordinator
EDR	Environmental Data Resources
EPA	Environmental Protection Agency
ERNS	Emergency Response Notification System
FDEP	Florida Department of Environmental Protection
FDOT	Florida Department of Transportation
FLUCFCS	Florida Land Use, Cover and Forms Classification System
GIS	Geographic Information System
GPS	Global Positioning System
Hazardous Material	A general term that includes all materials and substances which are now designated or defined as hazardous by federal or state law or by the rules or regulations of the state or any federal agency: 40 CFR § 261.30, 40 CFR § 261.4, 40 CFR §§ 261.21-261.24, Section 376.301, F.S., and Section 403.74, F.S.

ID	Identification
Level of Investigation	To standardize contamination evaluations on transportation projects, FDOT broadly uses the following levels of contamination investigation: **Level I** – A contamination screening evaluation consisting of a desktop review of current and historical records and site reconnaissance to identify past and present activities that have the potential to impact areas in, or immediately adjacent to, project construction. It is used to determine the need and scope of further assessments. Level I evaluation is completed as early as feasible in the project process, typically during the PD&E phase or during preparation of Phase I (30%) design plans for projects which do not have a PD&E Study. **Level II** – Level II assessment [also known as Impact to Construction Assessment (ICA)] consists of a detailed evaluation of potential contaminated sites based on the findings of Level I evaluation. When applicable, a Level II assessment includes soil sampling, laboratory testing and/or installation of groundwater monitoring wells for sites with known or potentially contaminated materials. This is done to assess the type and extent of contamination in potentially contaminated sites, identify impacts to construction and associated costs for remediation, and to develop recommendations for Level III activities or avoidance measures as warranted. Level II assessment is typically performed during the Design phase and prior to ROW acquisition and Construction. However, it may be performed during the PD&E phase for projects with advanced design activities or when it is required to substantiate the impact of potentially contaminated sites on the Preferred Alternative. **Level III** – Level III refers to additional evaluation of contamination identified or suspected based on the Level II assessment and any requisite remediation or abatement of contamination or hazardous materials. It includes a detailed plan for the removal and disposal of contaminated media, storage tanks, and/or other hazardous materials that may directly impact construction activities or ROW acquisition and clearance. Level III activities can occur during design and ROW acquisition, or during or prior to construction to avoid impacts to construction and project delays.
MBCs	Metals Based Coatings
MOU	Memorandum of Understanding
MPO	Metropolitan Planning Organization
NEPA	National Environmental Policy Act
NESHAP	National Emission Standards for Hazardous Air Pollutants

NPL	National Priorities List
OEM	Office of Environmental Management
OSHA	Occupational Safety and Health Administration
Potentially Contaminated Site	A site, within or adjacent to the project limits, suspected to have existing contamination based on past or current activities on or near the site as evidenced by records review, historical land use evaluation, or field reconnaissance.
PD&E	Project Development and Environment
PCB	Polychlorinated biphenyl
PM	Project Manager
Remediation	Those activities necessary to remove, treat, or otherwise reduce contamination to a level acceptable to the regulatory agency having jurisdiction in accordance with Chapter 62- 780, F.A.C., or applicable federal programs e.g., Resource Conservation and Recovery Act (RCRA).
RACM	Regulated asbestos-containing material
ROW	Right-of-Way
Solid Waste	**RCRA** defines a solid waste as: "any garbage, refuse, sludge from a waste treatment plant, water supply treatment plant, or air pollution control facility and other discarded material, including solid, liquid, semisolid, or contained gaseous material resulting from industrial, commercial or mining and agricultural operations, and from community activities . . . [excluding] . . . solid or dissolved materials in domestic sewage, or solid or dissolved materials in irrigation return flows, or industrial discharges which are point sources subject to permits under Section 402 of the Federal Water Pollution Control Act."
SWFWMD	Southwest Florida Water Management District
S.R.	State Road
TCLP	Toxicity Characteristic Leaching Procedure
USEPA	United States Environmental Protection Agency

EXECUTIVE SUMMARY

The Florida Department of Transportation (FDOT), District One, is conducting a Project Development and Environment (PD&E) Study to determine the alignment and conceptual design of improvements to State Road (S.R.) 789 over Longboat Pass—including an evaluation of replacing the existing bridge—from North Shore Road to the Coquina Beach Park south entrance in Longboat Key and Bradenton Beach, Manatee County, Florida. The project limits are approximately one (1) mile. The purpose of this Contamination Screening Evaluation Report (CSER) is to determine the likelihood and risk levels for hazardous substances within the right-of-way (ROW) and on lands proposed for acquisition. This technical report is a requirement of the PD&E process and has been prepared using the FDOT PD&E Manual and standard environmental assessment practices of reviewing records of regulatory agencies, site reconnaissance, literature review.

Two (2) sites were investigated for facilities or operations that may present the potential for involvement with hazardous materials, and therefore may impact the proposed improvements for this project. One (1) site (Longboat Pass Bridge Tender Facility) was assigned a rating of ***High Risk***, and the other (Coquina Beach Boat Launch) was assigned a rating of ***No Risk***. For the site rated ***No Risk***, no further action is planned. This site has been evaluated and determined not to have any potential environmental risk to the study area at this time.

For the site rated ***High Risk***, the Project Manager (PM) and the District Contamination Impact Coordinator (DCIC) will coordinate on further actions that must be taken to best address the contamination issues. This may include determining if the Florida Department of Environmental Protection (FDEP)/FDOT Memorandum of Understanding (MOU) applies to the site, conducting Level II activities or recommending Level III or remedial activities, notes on the plans, design modifications, and/or special provisions prior to or during construction.

Additional information may become available or site-specific conditions may change from the time this report was prepared and should be considered prior to acquiring ROW and/or proceeding with construction.

1.0 INTRODUCTION

The Florida Department of Transportation (FDOT), District One, is conducting a Project Development and Environmental (PD&E) Study to determine the alignment and conceptual design of the proposed improvements to State Road (S.R.) 789 (Longboat Key) over Longboat Pass—including an evaluation of replacing the existing bridge—from North Shore Road to north of the Coquina Beach Park south entrance Manatee County, Florida. The total project length is approximately one (1) mile, and the project limits are shown in **Figure 1**.

The purpose of this CSER is to present findings of a contamination screening evaluation for S.R. 789 within the study limits. This report identifies and evaluates known or potential contamination sites within or adjacent to the project area that may affect implementation of the project, presents testing or remedial recommendations concerning these problems, and discusses possible project impacts or impacts to the proposed project. This report has been prepared using the FDOT PD&E Manual guidelines and standard environmental assessment practices of reviewing records of regulatory agencies, site reconnaissance, and literature review.

Further details of the preferred alternative are found in Section 2.1. The purpose of the PD&E Study is to document and evaluate engineering and environmental data that will aid Manatee County, Sarasota/Manatee Metropolitan Planning Organization (MPO), FDOT District One, and the FDOT Office of Environmental Management (OEM) in reaching a decision on the type, preliminary design, and location of the proposed improvements. The study was conducted to meet the requirements of the National Environmental Policy Act (NEPA) and other related federal and state laws, rules, and regulations.

1.1 PROJECT DESCRIPTION

The S.R. 789 bridge (also known as Longboat Pass Bridge or Longboat Key Bridge) serves as the primary north-south connection from Longboat Key to Bradenton Beach and Anna Maria Island. The original Longboat Key bridge was built in 1926. In 1932, it was washed away by a hurricane, severing the connection between Longboat Key and Anna Maria Island. The current Longboat Key bridge (Structure Number 130057) is a bascule bridge built in 1957 slightly east of the original alignment and underwent major rehabilitation in 2005, including concrete and steel repairs, deck replacement, reconditioning of the Hopkins frame, refurbishment of the drive and span lock machinery, and replacement of the electrical power and control systems.

Longboat Key Bridge crosses Longboat Pass, a navigable waterway and federal channel managed by the United States Coast Guard (USCG) and designated as sovereign submerged land (SSL) by the Florida Department of Environmental Protection (FDEP) which serves as a northwestern entry point from the Gulf of Mexico to Sarasota Bay. The bridge has a main channel width of 45.9 feet with a minimum vertical clearance of approximately 17 feet with the bascule span in the closed position. With the planned replacement of Cortez bridge to the north with a 65-foot vertical clearance fixed bridge and the discontinued maintenance/dredging of the New Pass channel to the south, the Longboat Key Bridge could become the only viable access point for vessels with an air draft of 65 feet. The John Ringling Bridge to the south also provides less than 65 feet of clearance. If the Longboat Key Bridge is replaced with a

structure providing less than 65 feet of vertical clearance, vessels exceeding this height would be unable to enter or exit Sarasota Bay. **Figure 2** is a map of the project area in relation to these key areas.

This project involves the potential reconstruction and/or rehabilitation of S.R. 789/Longboat Key Bridge to address structural integrity and operational deficiencies. The limits of the proposed project are from North Shore Road to north of the Coquina Beach Park south entrance in the Town of Longboat Key and City of Bradenton Beach, in Manatee County, Florida. S.R. 789 is classified as an Urban, Major Collector and consists of a two-lane, undivided roadway between North Shore Road and the entrance to Coquina Park. The Longboat Key Bridge features a movable bascule span with steel-reinforced concrete main spans and a cast-in-place concrete deck. The bridge has a main channel width of 45.9 feet with a minimum vertical clearance of approximately 17 feet with the bascule span in the closed position. The bridge has two (2) 12-foot-wide travel lanes with no shoulders. Each lane is bordered by a small concrete barrier and a 5-foot-wide sidewalk. On the northbound approach, a 5-foot-wide sidewalk is located on the west side of S.R. 789, while no sidewalk is provided on the southbound approach. Bicycle lanes are present in both directions approaching the bridge but are not carried across the bridge structure.

Figure 1: Project Location

S.R. 789 (Longboat Key) PD&E Study
From North Shore Road to Coquina Park Entrance
FPID No. 436676-1-22-01
Manatee County

Image Source: APLUS
Imagery Date: 2024

NORTH

0 0.07 0.15 Miles

FDOT

Figure 2: Project Area

S.R. 789 (Longboat Key) PD&E Study
From North Shore Road to Coquina Park Entrance
FPID No. 436676-1-22-01
Manatee County

Image Source: ESRI
Image Date: 2024

Adjacent to each travel lane is a small concrete barrier and a 5-foot-wide sidewalk. On the northbound approach to the bridge, there is a 5-foot-wide sidewalk on the west side of S.R. 789. On the southbound approach to the bridge, there are no sidewalk facilities. Bicycle lanes are present in both directions approaching the bridge structure but are not present on the bridge.

2.0 PROPOSED IMPROVEMENTS

2.1 PREFERRED ALTERNATIVE

High Level Fixed Bridge Alternative – This includes the replacement of the existing Longboat Key Bridge with a 78-foot vertical clearance fixed bridge with 90 feet of horizontal clearance between fenders. The typical section includes: one (1) 12-foot-wide protected shared use path on the west side of the bridge, two (2) 8-foot-wide outside shoulders, two (2) 11-foot-wide travel lanes and one (1) 8-foot-wide protected sidewalk on the east side of the bridge. On the south approach, the 12-foot-wide shared use path and 8-foot sidewalk continue and transition into 6-foot sidewalks near the North Shore Road intersection. On the north approach, the 12-foot-wide shared use path connects to the existing 6-foot sidewalk at the Coquina Beach south entrance, while the 8-foot sidewalk terminates at the north end of the Coquina Beach pedestrian crossing. The Preferred Alternative eliminates scuppers and incorporates stormwater conveyance systems directing roadway runoff to treatment facilities located within the bridge approaches and existing right-of-way (ROW). Runoff will be routed to a dry swale at the southern end of the project and to a dry retention pond at the northern end, allowing for infiltration and treatment prior to discharge. The alternative would require ROW acquisition from the north side of the bridge at the Manatee County Marine Rescue Facility (county-owned property), along with intersection and access management modifications at the north end of the bridge near the Coquina Beach entrance. The proposed typical section of the Preferred Alternative is shown in **Figure 3**. Rehabilitation is not considered a feasible alternative due to the degraded condition of the existing bridge.

Figure 3-1: Preferred Alternative – S.R. 789 at Coquina Beach Entrance

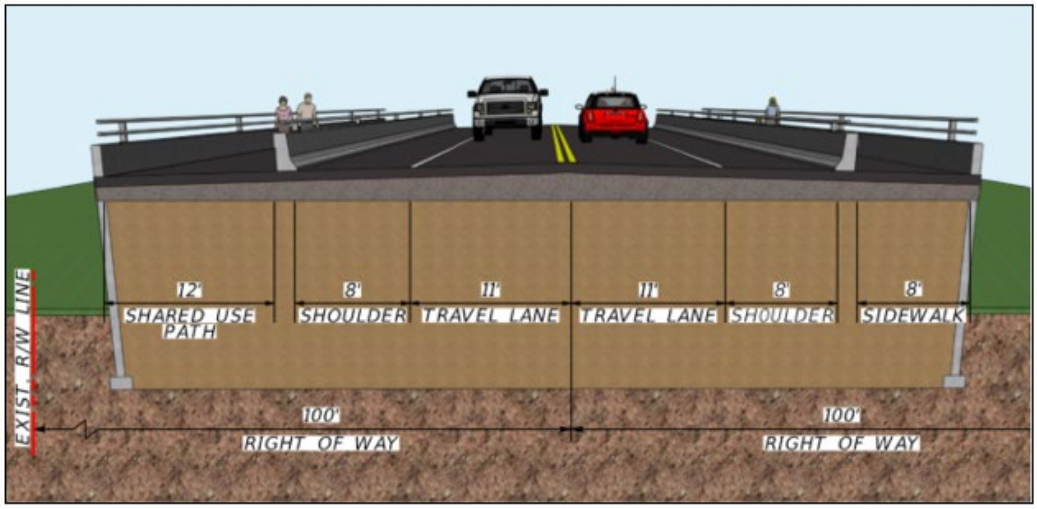


Figure 3-2: Preferred Alternative – S.R. 789 (Longboat Key) Bridge

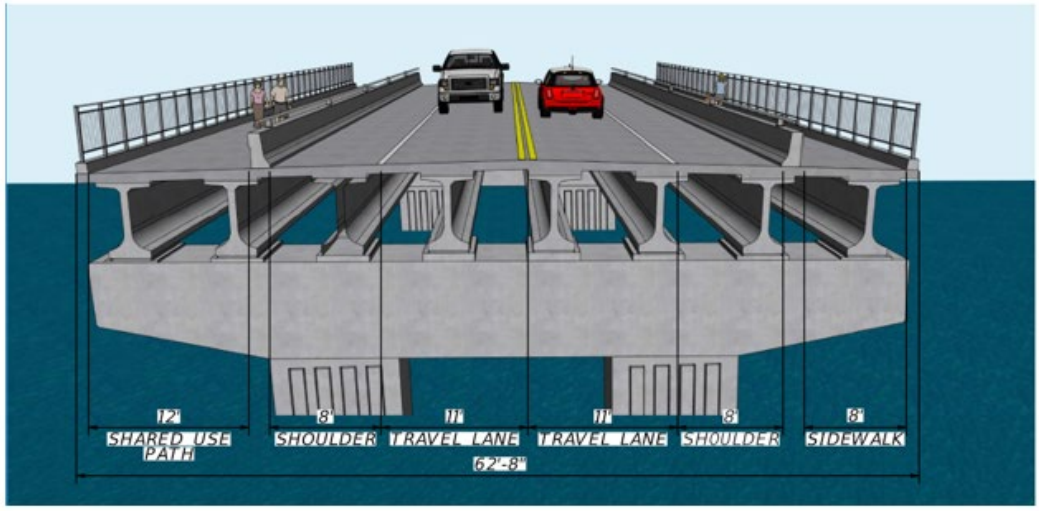
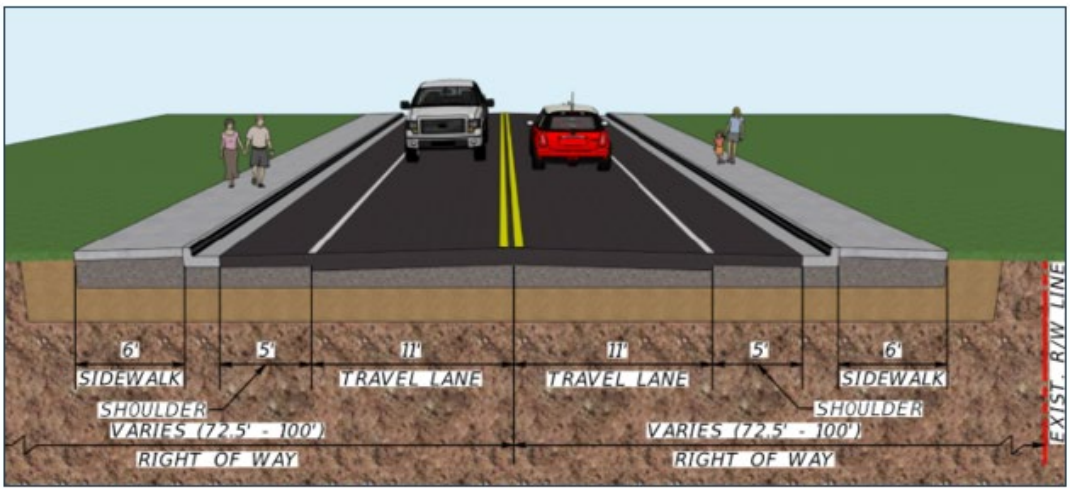


Figure 3-3: Preferred Alternative – S.R. 789 at North Shore Road



3.0 METHODS

This section addresses the means for obtaining data for each site; the use of the data sources to determine the individual site descriptions; the field observations to supplement the available data and provide current conditions and site knowledge; and the reasoning for determining the risk rating for each site. The evaluation consisted of the following tasks:

- Property boundary review using Manatee County Property Appraiser's website;
- Reviewing governmental databases for permits and or violations associated with environmental issues;
- Obtaining and evaluating historical aerial photographs, topographic maps, and soil surveys in an effort to determine potential contamination problem areas;
- Conducting site visits to verify information provided and to identify other potential concerns within the vicinity of the project; and
- Determining the contamination potential and assigning a risk rating for each potential contamination site within the proposed project limits.

Potential contamination impacts associated with the project were assessed using methods described in FDOT PD&E Manual. Based on the guidance provided in the PD&E Manual, the search distance buffer for this project was generally maintained within 500 feet of the existing S.R. 789 centerline for petroleum, drycleaners, and non-petroleum sites; 1,000 feet for non-landfill solid waste sites; and 0.5 miles for Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), National priorities list (NPL) Superfund sites, and landfill sites.

Contamination analysis for this project consisted of a combination of desktop analysis and field review. The desktop analysis consisted of using the contamination databases available from the FDEP Map Direct application and obtaining confirmatory reports from their electronic document management system, OCULUS. Additionally, use of the Environmental Data Resources, Inc. (EDR) Area Report provided a cross check of federal and state databases (**Appendix D**). Combined, the three (3) resources have provided a detailed description of the potential contamination present on and near the project alternative corridors.

Field reviews were completed on March 9, 2020 and September 18 and 19, 2023. Printed maps of the entire project corridor were used for field notes and Global Positioning System (GPS) was used to provide specific location information correlated to site photos (**Appendix A**). A pedestrian survey was completed for the entire corridor. Field reviews did not identify any sources or signs of possible contamination that were not already identified in the desktop analysis and adequately summarized in the contamination databases; therefore, interviews were not deemed to be necessary or conducted as a part of this investigation.

4.0 LAND USE

4.1 HISTORICAL LAND USE

Aerial photography was obtained from the FDOT through the Aerial Photo Look Up System (APLUS), as well as from the University of Florida for the years 1940, 1951, 1958, 1973, 1980, 1994, 2002, 2010, and 2024. **Appendix B** is a set of annotated maps with discernable landmarks (or approximated

landmarks) that was used in the analysis of the land use and development that has occurred in the project area. The following discussion is based on interpretation of signatures and discernable land features to describe the specific land use.

The earliest available aerial photographs are from 1940. There are few discernable features, and no buildings are visible in the photo. In the photograph from 1951, a significantly more developed roadway system can be seen on Longboat Key. Little development is visible on Anna Maria Island. In the photograph from 1958, Longboat Key Bridge can be seen connecting Longboat Key and Anna Maria Island. Further roadway development can be seen in the northern portion of Longboat Key, while the southern area of Anna Maria Island appears unchanged from previous photos.

In the photo from 1973, the bridge between Longboat Key and Anna Maria Island can clearly be seen. In the northern area of Longboat Key, extensive housing development, several docks, and other buildings that were not visible in previous photos can be seen. A groin is also visible along the southern end of Anna Maria Island. By 1980, the area around the project corridor was developed nearly to the extent it was in the most recent aerial photographs. In the 2002 photograph, dredging is visible in Longboat Pass, the navigable channel beneath the Longboat Key Bridge. Since 1980, minimal development has taken place—primarily residential—and has gradually occurred to the east of the project corridor on Longboat Key.

4.2 CURRENT LAND USE

A GIS analysis was conducted within the project study area to generalize the primary land uses in the area (**Figure 4**). For this report, the study area is defined as a 500-foot buffer extending 500 feet east and west of the Gulf of Mexico Drive (S.R. 789) centerline as well as 500 feet north and south of the project limits, including preferred pond sites. The Florida Land Use, Cover and Forms Classification System (FLUCFCS) Level 3 land use codes were determined by the Southwest Florida Water Management District (SWFWMD). Similar land use types were combined to provide a simple summary of land use (**Table 1**).

Land use along the S.R. 789 corridor is predominantly urban and developed. The corridor is characterized by high-density residential development, commercial uses, recreational uses and open water associated with bays and estuaries. Upland forests and wetlands occur in limited areas within the study area.

Table 1: Summary of Land Use within Study Area

FLUCFCS Level 1 Description	FLUCFCS Code, Level 3 Description	Total Area (Acres)	Percent of Total Project Area
Urban and Built-Up	1300, Residential, High Density (Six or More Dwelling Units per Acre)	17.39	10.98%
Urban and Built-Up	1400, Commercial and Services	14.64	9.24%
Urban and Built-Up	1800, Recreational	50.69	31.99%
Urban and Built-Up	**Total**	**82.73**	**52.21%**
Upland Forests	4200, Upland Hardwood Forests	12.25	7.73%
Upland Forests	**Total**	**12.25**	**7.73%**
Water	5400, Bays and Estuaries	60.54	38.20%
Water	**Total**	**60.54**	**38.20%**
Wetlands	6120, Mangrove Swamps	2.95	1.86%
Wetlands	**Total**	**2.95**	**1.86%**
	Overall Total	**158.46**	**100%**

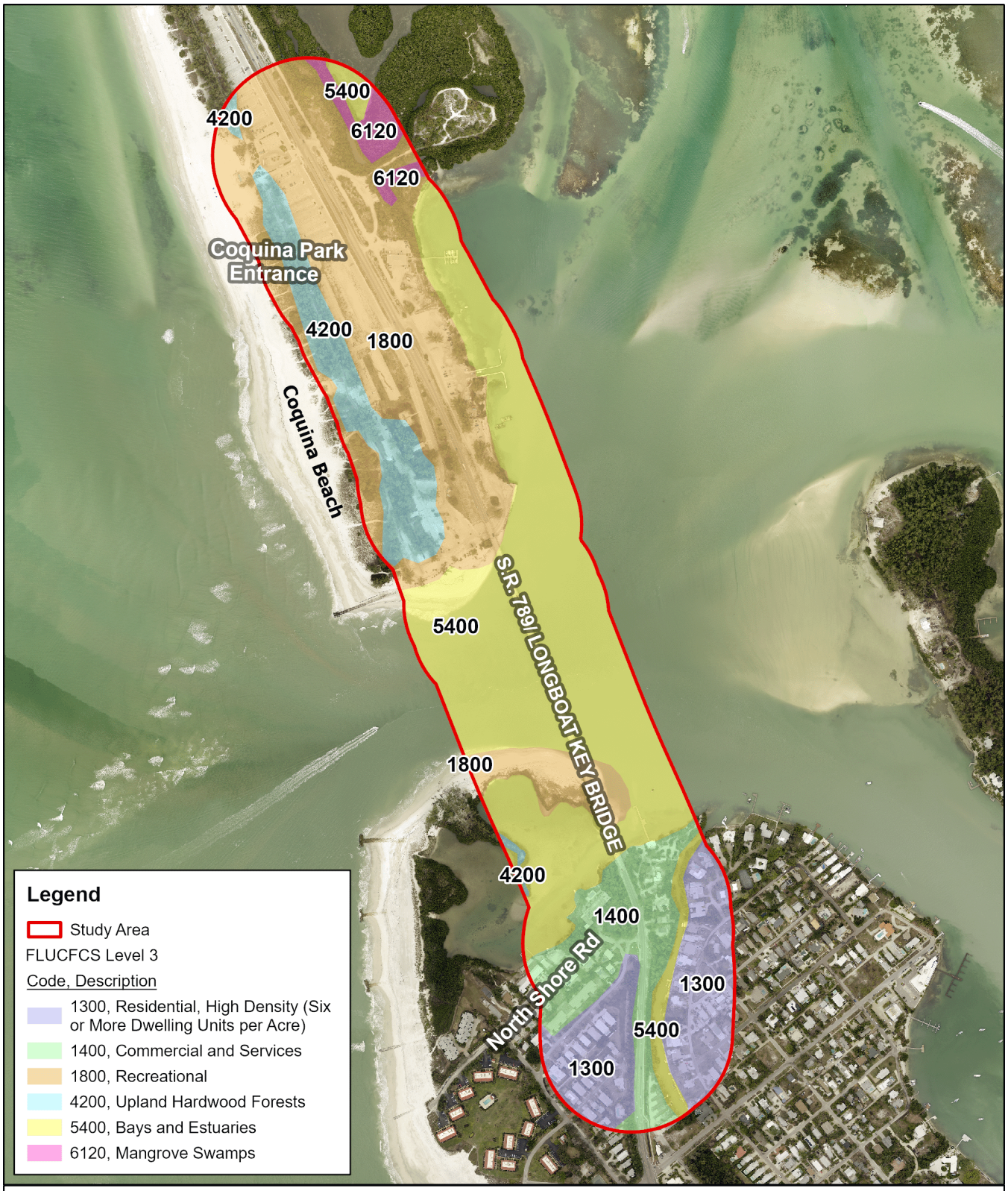


Figure 4: Existing Land Use within Study Area

S.R. 789 (Longboat Key) PD&E Study
From North Shore Road to Coquina Park Entrance
FPID No. 436676-1-22-01
Manatee County

Data Source: SWFWMD
Image Source: APLUS
Image Date: 2024

NORTH

0 550 1,100 Feet

5.0 HYDROGEOLOGIC FEATURES

The project area is located in the Gulf Coastal Lowlands physiographic unit for Manatee County (Brown, 1983). More specifically, the project location is referenced as the Gulf Barrier Chain unit (Knochenmus, 2006). Much of the study of the hydrologic systems in the County have not been concerned with the Gulf Barrier Chain unit. The unit is composed of undifferentiated deposits of sand and shell beds of moderate water producing capacity. The hydraulic conductance of the surficial aquifer in the coastal area varies from 1 to 1,490 feet per day (Knochenmus, 2006).

In general, groundwater in Manatee County occurs in both unconfined (water table) and confined (artesian) conditions (Peek and Anders, 1955). These aquifers are referenced as the surficial aquifer, the artesian or intermediate aquifer, and the Floridan aquifer (Peek, 1958; Brown, 1983; Barr, 1996, Knochenmus, 2006). The surficial aquifer is mostly undeveloped, the artesian aquifer is highly developed, and the Floridan aquifer is the main supply of drinking water for the County. Most of the freshwater used in Manatee County is derived from the artesian aquifer; the majority is used for irrigation.

Average rainfall for Manatee County is approximately 55 inches with 60% of the rainfall occurring between June and September (Brown, 1983). Rainwater recharges the artesian aquifer, however 39 inches of the 55 inches per year are lost to evapotranspiration. An additional 15 inches are lost to runoff. Approximately one (1) inch of the annual rainfall can reach the artesian aquifer to recharge it.

In the Gulf Coastal Lowlands unit, water quality in 1983 was described as “generally of good chemical quality and suitable for most purposes” (Brown, 1983). However, coastal areas have had concerns with saltwater intrusion since 1950 (Peek and Anders, 1955).

6.0 PROJECT IMPACTS

The analysis of potential contamination locations is based on the guidance provided in the PD&E Manual. Using the three (3) data sources described previously (FDEP Map Direct application, OCULUS, and EDR), each contamination site with potential to impact the project is mapped and discussed in this report. There are no non-landfill solid waste sites within the designated 1,000-foot analysis buffer. There are no CERCLA NPL sites or landfill sites within the designated 0.5-mile analysis buffer.

Risk Ratings

Based on a desktop analysis and field review results, the following sites were found as potential contamination sources for the project. Risk ratings are summarized here as per FDOT guidance. The ratings are defined:

- **No** - A review of available information on the property and a review of the conceptual or design plans indicates there is no potential contamination impact to the project. It is possible that contaminants have been handled on the property. However, findings from the Level I evaluation indicate that contamination impacts are not expected.
- **Low** - A review of available information indicates that past or current activities on the property have an ongoing contamination issue; the site has a hazardous waste generator identification (ID) number, or the site stores, handles, or manufactures hazardous materials. However, based on the

review of conceptual or design plans and/or findings from the Level I evaluation, it is not likely that there would be any contamination impacts to the project.

- **Medium** - After a review of conceptual or design plans and findings from a Level I evaluation, a potential contamination impact to the project has been identified. If there is insufficient information (such as regulatory records or site historical documents) to make a determination as to the potential for contamination impact, and there is reasonable suspicion that contamination may exist, the property should be rated at least as a "Medium". Properties used historically as gasoline stations and which have not been evaluated or assessed by regulatory agencies, sites with abandoned in place underground petroleum storage tanks or currently operating gasoline stations should receive this rating.
- **High** - After a review of all available information and conceptual or design plans, there is appropriate analytical data that shows contamination will substantially impact construction activities, have implications to ROW acquisition or have other potential transfer of contamination related liability to the FDOT.

Two (2) total sites adjacent to or within the vicinity of the project corridor were observed to have potential for contamination involvement with the project or are included in databases recording potential contamination. **Figure 5** is a map of the site locations. A description of each site is provided below. Following the site descriptions, **Table 2** provides a summary of the sites and their risk ratings, and **Figure 6** is a map of the site rankings.

Figure 5: Potential Contamination Sites
S.R. 789 (Longboat Key) PD&E Study
From North Shore Road to Coquina Park Entrance
FPID No. 436676-1-22-01
Manatee County

Image Source: APLUS
Image Date: 2024

NORTH

0 500 1,000 US Feet

Site No.	Facility Name	Facility ID	Facility Type
	Facility Address	**Dist. From Project**	**Risk Rating**
1	Longboat Pass Bridge Tender Facility	N/A	Hazardous Waste
	95 Gulf of Mexico Dr, Longboat Key	0 feet	High

The existing bridge structure, including the tender house, was built in 1957. In March 1992, the transformer unit at Longboat Key Bridge was discovered to be leaking polychlorinated biphenyl (PCB) laden oil. It was estimated that an approximate total of less than one (1) gallon of oil leaked from the transformer unit. Laboratory analysis indicated that PCB concentrations were elevated, and because exposure to PCBs is considered detrimental to human health, a Declaration of Emergency was established. Transformer unit removal and replacement were conducted at the bridge and the contaminated area was treated using a chemical intended to extract PCBs from affected surfaces. Samples were taken for analytical evaluation, and it was determined that PCB levels were still elevated above target cleanup levels at the contact surfaces in isolated areas, but low enough that they did not warrant further remedial action at the time. Since it is not known for how long PCB oil was leaking prior to cleanup, the porosity condition of the concrete and masonry surfaces may be contributing to the remaining PCB levels.

Encapsulation was recommended, in the form of a two-part epoxy sealant system to limit contact with the PCB contaminated surface. The first application was of a dominant contrasting color while the second finish application was of a different color. The intent was to have the dominant undercoat color act as a warning to any personnel should the finish topcoat become weathered or worn over time according to the 1994 Summary Report (**Appendix C**). The coating appeared to be in good condition during the field visit. Warning signs were posted for continued personnel safety. In 2019, the bridge underwent repair activities, and intrusive activities (drilling, breaking, sanding, etc.) were proposed. The District 1 DCIC directed the Contamination Assessment/Remediation (CAR) contractor to complete a survey for asbestos containing material (ACM) and metal-based coatings (MBCs), as well as inspect PCB-impacted concrete areas. In 2019, an Asbestos-Containing Materials and Metals-Based Coatings Assessment, attached as **Appendix C**, was prepared in order to document the testing that was conducted on the bridge. According to the evaluation, ACMs and MBCs were present on the bridge. Based on the results of the MBC survey, elevated levels of zinc and lead were detected. Additionally, the bridge tender house flooring contains ACMs.

Because PCBs, ACMs, and MBCs have been confirmed in the bridge, the Risk Rating for this site is ***High Risk***, and a Level II assessment is recommended. The PM and DCIC will coordinate to determine whether Level II testing and/or Level III support will be warranted. At the time of this writing, the bridge is currently going under active remediation. Prior to demolition or any significant disturbance to the existing bridge structure, any contaminated material must be removed and disposed of by a properly qualified contractor. The Site Evaluation Checklist and photographic documentation are included in **Appendix A**.

Site No.	Facility Name	Facility ID	Facility Type
	Facility Address	**Dist. From Project**	**Risk Rating**
2	Coquina Beach Boat Launch	2017197630	Hazardous Waste
	2650 Gulf Dr S, Bradenton Beach	0 feet	No

The Environmental Protection Agency's (EPA) Emergency Response Notification System (ERNS) reports that in 2017, "Local dispatch were notified of a submerged passenger SUV (that was on the boat ramp), initial cause is unknown". The material involved was reported to be an unknown amount of "Unknown Oil". There is only a single ERNS report regarding this incident, and this is the only documented incident at this site. The site is not a generator of hazardous waste and has no registered storage tanks. A field review conducted September 19, 2023 did not identify any indication of potential contamination issues at this site. Due to the distance from the boat ramp to proposed construction, and because no potential sources of contamination have been reported prior to or since 2017, the Risk Rating for this site is ***No Risk***. The Site Evaluation Checklist and photographic documentation are included in **Appendix A**.


Leffis Key Preserve
Boat Launch
2
Coquina Beach Park
GULF OF MEXICO DR
Tender House Facility
1
Greer Island Park
Legend
Project Footprint
Potential Contamination Source
Risk Rating
No
High
FDOT
Figure 6: Ranked Potential Contamination Sites
S.R. 789 (Longboat Key) PD&E Study
From North Shore Road to Coquina Park Entrance
FPID No. 436676-1-22-01
Manatee County
Image Source: APLUS
Image Date: 2024
NORTH
0 500 1,000
US Feet

Table 2: Potential Contamination Sites

Facility Number	Facility Name	Facility Address/ Location	Facility ID	Facility Type	Discharge/ Report Date	Contamination of Concern	Distance to ROW (feet)	Remediation Status	Risk Rating
1	Longboat Pass Bridge Tender Facility	95 Gulf of Mexico Dr, Longboat Key	N/A	Hazardous Waste	1992	PCBs, asbestos, MBCs	0	Ongoing	High
2	Coquina Beach Boat Launch	2651 Gulf Dr S, Bradenton Beach	2017197630	Hazardous Waste	2017	Unknown oil from submerged car	0	Cleanup Not Required	No

7.0 CONCLUSIONS AND RECOMMENDATIONS

Two (2) sites were investigated for facilities or operations that may present the potential for finding petroleum contamination or hazardous materials, and therefore may impact the proposed improvements for this project. From data gathered during further records reviews and site visits, the following risk ratings have been applied: **one (1) *High Risk* rating site,** and **one (1) *No Risk* rating site** for potential contamination concerns. Level 2 assessment of the bridge is recommended prior to construction. The following actions are recommended:

Asbestos Abatement:

If the bridge demolition contractor encounters any material on any area of the bridge that may potentially contain ACM, demolition activities should be halted immediately and the FDOT District 1 DCIC should be contacted. The use of wet demolition methods is required.

Regulated asbestos-containing material (RACM) must be abated prior to demolition or renovation of a facility in accordance with United States Environmental Protection Agency (USEPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR, Subpart M, Part 61.145 and with the abatement procedures described in the Florida asbestos program described in Chapter 62-257, Florida Administrative Code. Additionally, work practices and engineering controls described in Occupational Safety and Health Administration (OSHA) Construction Standard 1926.1101 must be implemented, utilizing personnel licensed in accordance with Chapter 469 of the Florida Statutes.

No asbestos abatement activities shall be performed without prior approval of the Department's representative. Notifications for abatement or demolition shall be sent to the FDEP at least ten (10) working days prior to abatement activities. Personal protective equipment shall consist of half-face negative pressure air-purifying respirators, hoods, gloves, boots, and disposable coveralls during isolation, preparation, and abatement activities. Additionally, a minimum of 25% of the personnel working in the exclusion zone must wear personal air monitors to determine worker exposure.

Area air sampling shall be conducted before, during and after ACM abatement by a licensed asbestos inspector. The ACM shall be wetted immediately prior to removal. During removal, the ACM shall be double-bagged, labelled, and placed in a box truck or trailer for transportation to a certified disposal facility. An Asbestos Waste Shipment Record shall be completed and shall accompany the asbestos waste to the disposal facility. A copy of the Asbestos Waste Shipment Record shall be submitted to FDOT.

Metal-based Coatings (MBCs):

Contractors should perform demolition or renovation activities in a manner that will ensure workers are not exposed above the permissible exposure limits as specified by the OSHA 29 CFR Subpart Z. Worker protection in the presence of metals or metals containing materials may include, but is not limited to: engineering controls, work-practice controls, hygiene facilities and practices, medical surveillance, medical removal protection for employees whose blood lead levels exceed a predetermined action limit, and employee training. Careful review and consideration of all applicable laws and regulations is recommended before determining what level of exposure exists at this location and which OSHA standards should be applied to support compliance with federal regulatory standards. Operations such as

blasting, sanding, grinding, burning, or cutting the painted surfaces have the potential to produce airborne metals particles. Contractors should also ensure that paint chips are not released to the environment and are containerized and labeled for subsequent disposal.

Based on the Toxicity Characteristic Leaching Procedure (TCLP) results for the PS-12/PS-9 Composite MBC sample, the tender facility yellow paint and green paint generated from renovation of the bridge are required to be handled as hazardous waste. Any coating wastes generated from this bridge will be properly disposed of solely by the responsible contractor. Because of the continuous operations of the bascule bridge, it is recommended that stabilization of the lead-based coatings take place as referenced above. Stabilization of these coatings involves removing loose paint and other material from surfaces containing lead-based paint, and applying a new paint or protective coating over these surfaces.

Polychlorinated bi-phenyl (PCB):

Investigation initiated March 17, 1992 on the Longboat Key and Anna Maria Bridge transformer units. Less than a gallon of PCB laden oil leaked from the transformer units. Samples contained as much as 50,800 mg/kg of Aroclor 1260. The units were removed, and decontamination of the locations was initiated on March 25, 1992. The units were replaced. Two-part epoxy sealant system was proposed on all contaminated surfaces. The 2018 report indicated that the PCB sealant was still in place and no exposure was determined. No intrusive work should be performed on this PCB-impacted materials except by qualified personnel with appropriate controls to prevent releases to the environment and to prevent worker exposure.

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APPENDIX A

Site Evaluation Checklists

SITE EVALUATION CHECKLIST – Site 1

Current User: Longboat Key Bridge Tender Facility

Address: 95 Gulf of Mexico Dr, Longboat Key

Owner: Florida Department of Transportation

Past Uses: None

Hazardous classification: Hazardous Waste

EPA / State Permit No. : N/A

Enforcement Agencies: FDEP

Past, present, or future actions pending: Ongoing remediation

Sites Summary List (DEP) known leaks / spills: One (1)

Details: The Longboat Key Bridge tender facility experienced a leak of PCB-laden oil from a transformer unit in 1992, with less than a gallon spilled. Due to elevated PCB levels, a Declaration of Emergency was issued. The transformer was removed, and the area was treated to extract PCBs, though some contamination remained in isolated areas. Additionally, the bridge tender facility flooring contains asbestos-containing materials.

Stationary Tanks (Currently): None

Year installed: N/A

AERIAL PHOTO INTERPRETATION

No. of years available: 1940-2021

No. of years used: 1973, 1980, 1994, 2002, 2010, 2021

Apparent land use changes: Creation of bridge structure

From: 1940

To: 1960

Landfills: None

Lagoons: None

Storage areas: None

For what: N/A

LOCAL OFFICIALS

City / County Engineer: Scott May

Water management district: SWFWMD

SITE ASSESSMENT

Who was met at the site: N/A

Type of business activities: Transportation Structure

Was entire site viewed?: Yes

Lands: Coastal

Buildings: 0

Landscaping: None

Ground staining: Not observed

Standing liquids: Not observed

Odors: Not observed

Sink holes: Not observed

Drums? Labeled?: Not observed

Containers? Labeled?: Not observed

Ventilation pipes? To what?: Not observed

Does building look like an old gasoline station?: N/A

Transformers: Not observed

Underground (buried) lines, etc.: Not observed

Anything unusual: No

Contamination Screening Evaluation

Site Ranking:

High. The PM and DCIC will coordinate to determine if Level-II testing and/or Level-III support will be warranted.

View facing southwest of Longboat Key Bridge. Taken March 10, 2020.

View facing southwest of Longboat Key Bridge tender facility. Taken March 10, 2020.

SITE EVALUATION CHECKLIST – Site 2

Current User: Coquina Beach Boat Launch

Address: 2651 Gulf Dr S, Bradenton Beach

Owner: Manatee County

Past Uses: None

Hazardous classification: Hazardous Waste

EPA / State Permit No. : 2017197630

Enforcement Agencies: FDEP

Past, present, or future actions pending: None

Sites Summary List (DEP) known leaks / spills: One

Details: In 2017, there was an incident reported by the EPA's Emergency Response Notification System (ERNS). Local authorities were informed of a submerged SUV at a boat ramp, though the cause of the incident is unknown. The report mentions an unspecified amount of "Unknown Oil" as the material involved.

Stationary Tanks (Currently): None

Year installed: N/A

AERIAL PHOTO INTERPRETATION

No. of years available: 1940-2021

No. of years used: 1973, 1980, 1994, 2002, 2010, 2021

Apparent land use changes: Boat Launch and Coquina Park

From: 1940

To: 1973

Landfills: None

Lagoons: None

Storage areas: None

For what: N/A

LOCAL OFFICIALS

City / County Engineer: Scott May

Water management district: SWFWMD

SITE ASSESSMENT

Who was met at the site: N/A

Type of business activities: Boat Launch

Was entire site viewed?: Yes

Lands: Recreational

Buildings: 0

Landscaping: Coastal plants

Ground staining: Not observed

Standing liquids: Not observed

Odors: Not observed

Sink holes: Not observed

Drums? Labeled?: Not observed

Containers? Labeled?: Not observed

Ventilation pipes? To what?: Not observed

Does building look like an old gasoline station?: N/A

Transformers: Not observed

Underground (buried) lines, etc.: Not observed

Anything unusual: N/A

Contamination Screening Evaluation

Site Ranking:

No. Impacts to construction from this site are not anticipated.

View facing northeast of Coquina Beach Boat Launch. Taken October 31, 2023.

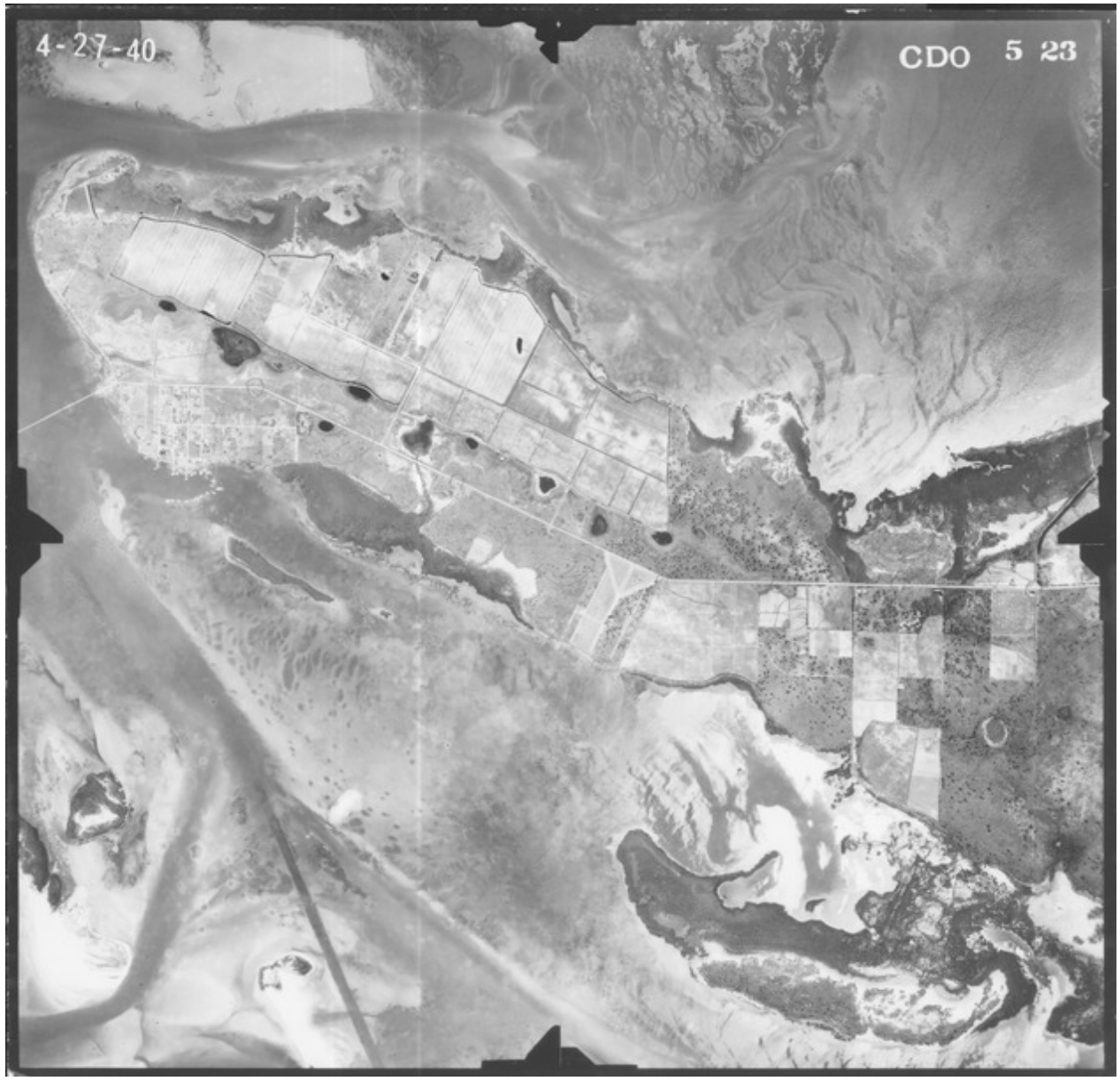
View facing southwest of Coquina Beach Boat Launch. Taken October 31, 2023.

APPENDIX B

Historical Aerial Photography

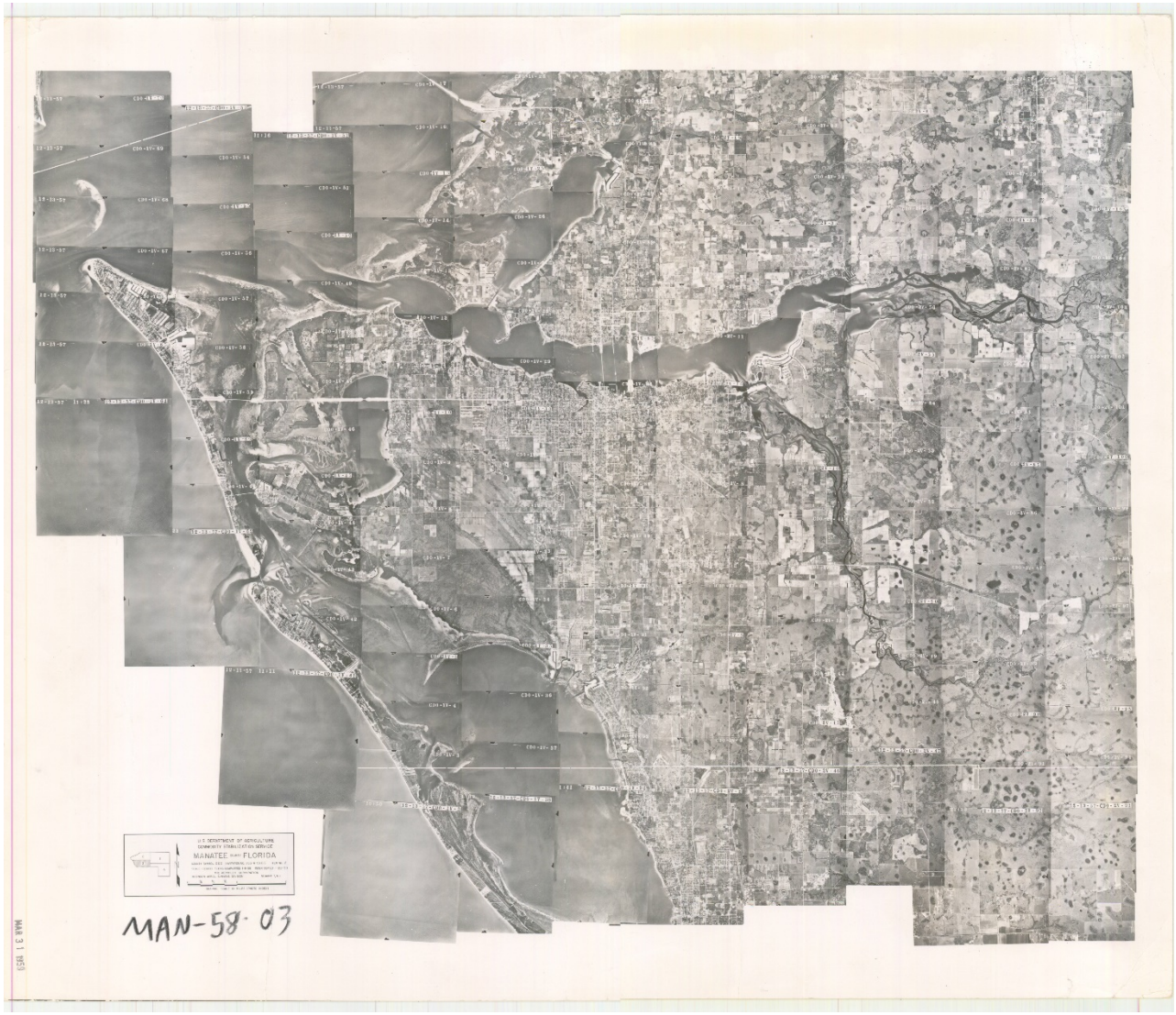
1940 – 2024

1940: This is the earliest available aerial photograph. There are few discernable features and no visible buildings on Longboat Key. Anna Maria Island cannot be seen in the picture.



1951: A significantly more developed roadway system can be seen on Longboat Key. Little development is visible on Anna Maria Island.

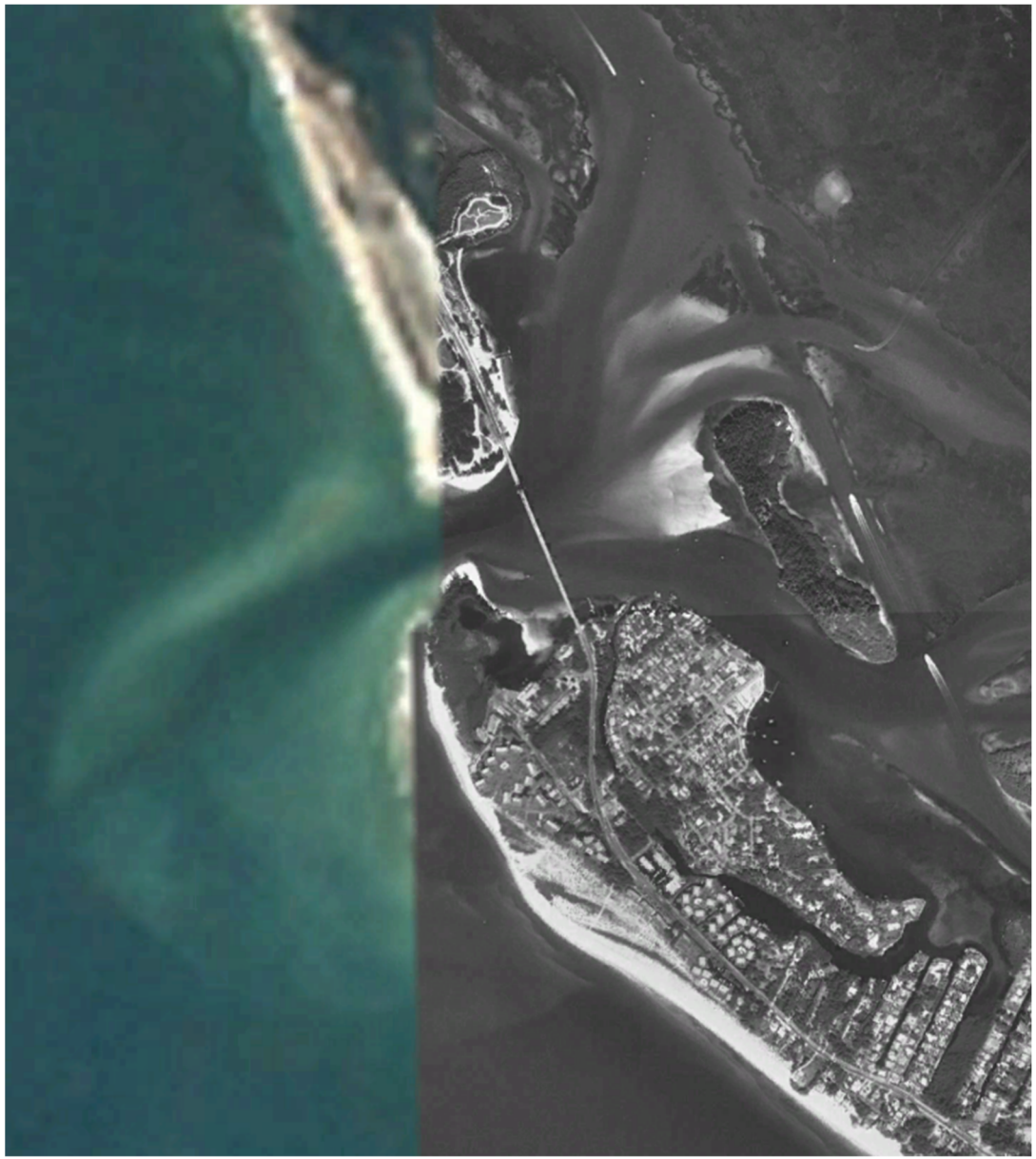
1958: Longboat Key Bridge can be seen connecting Longboat Key and Anna Maria Island. Further roadway development can be seen on Longboat Key, while the southern portion of Anna Maria Island appears relatively unchanged.



1973: Longboat Key Bridge is clearly visible. Extensive housing development, several docks, and other buildings that were not visible in previous photos can be seen on Longboat Key. A groin is visible along the southern end of Anna Maria Island.

1980: Extensive development can be seen around the project corridor, on both Longboat Key and Anna Maria Island, close to its current extent.

1994: There is little discernable difference in the project area from the photograph from 1980.



2002: Dredging can be seen occurring between Longboat Key and Anna Maria Island. Minimal new development can be seen.

2010: Very little change can be seen from the previous photograph from 2002.

2024: This is the most recent available aerial photograph. Very little change can be seen from the previous photograph from 2010.

Appendix C: Asbestos-Containing Materials and Metals-Based Coatings Survey

SUMMARY OF ACTIVITIES REPORT

ASBESTOS CONTAINING MATERIALS AND METALS BASED COATINGS ASSESSMENT

State Road 789 Bridge Over Longboat Key Pass
Bridge Number 130057
Longboat Key, Manatee County, Florida
FDOT Financial Project ID: 436415-1-C2-52

Submitted to:
Florida Department of Transportation, District 1
801 North Broadway Avenue
P.O. Box 1249
Bartow, Florida 33831-1249

Submitted by:
NorthStar Contracting Group, Inc.
2760 S. Falkenburg Road
Riverview, Florida 33578
Telephone: (813) 684-4400

September 2018

SUMMARY OF ACTIVITIES REPORT

ASBESTOS CONTAINING MATERIALS
AND METALS BASED COATINGS ASSESSMENT

State Road 789 Over Longboat Key Pass
Bridge Number 130057
Longboat Key, Manatee County, Florida
Contract No.: BE149
FDOT Financial Project ID: 436415-1-C2-52
NorthStar Project Number: 4018128

Statement of Professional Review

This report has been reviewed and the work contained herein has been found to conform to commonly accepted procedures consistent with applicable standards of practice. No guarantee or warranty is expressed or implied.

Prepared by: _____ For Date: 9/11/18
Geoffrey Ferlita
Staff Geologist

Reviewed by: Philip L. Glover Date: 9-11-18
Philip L. Glover, PG, LEP
Senior Geologist I

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1.0 INTRODUCTION

At the request of the Florida Department of Transportation (FDOT), NorthStar Contracting Group, Inc. (NorthStar) conducted an asbestos-containing materials (ACM) and metals-based coatings (MBC) assessment to confirm the presence or absence of these materials on Bridge No. 130057. This work was authorized under Letter of Authorization (LOA) 54 to Contract No. BE149. Potential ACM and MBC were required to be identified at the bridges prior to FDOT performing renovation or demolition activities, pursuant to the requirements under the Asbestos Hazard Emergency Response Act (AHERA), the asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP) under Section 112 of the Clean Air Act and the rules and requirements for lead based coating inspections under Title 40 of the Code of Federal Regulations Part 745 (40 CFR 745) and Title X of the 1992 Housing and Community Development Act.

The bridge is located in Longboat Key, Manatee County, Florida. A Site Vicinity Map is provided as **Figure 1**. A site map presenting the ACM and MBC sample locations is included as **Figure 2.**

2.0 SUMMARY OF ACTIVITIES

2.1 Pre-Survey Activities

NorthStar personnel prepared a site-specific Health and Safety Plan (HASP), and coordinated ACM survey activities through Diversified Management Corporation, Inc. (DMC). NorthStar personnel conducted the MBC survey activities.

2.2 Survey Activities

On July 27, 2018, NorthStar and DMC personnel mobilized to Bridge No. 130057 to conduct ACM and MBC survey activities. The MBC survey activities were completed on July 30, 2018. Prior to starting work, NorthStar personnel conducted a Health and Safety meeting in accordance with the HASP (**Appendix A**). NorthStar personnel remained on-site to provide oversight and to provide Health and Safety support and supervision for DMC personnel. Photographs documenting site activities are provided as **Appendix B**.

The certified ACM inspector conducted a site walk of the bridge and identified homogeneous areas of suspect materials, *i.e.,* areas that appeared to have been constructed around the same time and from the same source of potential ACM. The survey methodology was based on the AHERA rules and procedures outlined in 40 CFR 763. The inspector identified twelve (12) homogeneous areas of suspect ACM on the bridge. Between three (3) and five (5) bulk samples were collected from each of the homogenous areas listed above, and a total of 38 bulk samples

were submitted for laboratory analysis. However, due to the operational status of the bascule bridge, components associated with the bridge motor and braking systems were not accessed. The approximate sampling locations are presented on **Figure 2.**

NorthStar's MBC inspector conducted a site walk of the bridges to identify any surface coatings that may contain lead, arsenic, cadmium, chromium or zinc. The survey methodology was based on "Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing" [Department of Housing and Urban Development (HUD), 1995; 1997 for Chapter 7 Revision]. A total of 17 sampling areas were identified along the bridge for testing, and total of 17 samples were collected, including yellow lane paint, white lane paint, metal guardrail, guardrail post, gray graffiti touch up paint, tan graffiti touch up paint, white graffiti touch up paint, blue bridge paint, bridge house yellow paint, bridge house tan paint, gray bridge house ceiling, green bridge house paint, red drawbridge gear paint, orange underbridge paint, white I-beam paint, black piling paint and gray underbridge paint. The approximate sampling locations are presented on **Figure 2.**

2.3 Laboratory Analytical Methods

The ACM samples were submitted to Arrowhead Technologies, LLC, an independent laboratory accredited by the National Voluntary Laboratory Accreditation Program for bulk asbestos fiber analysis. The laboratory analyzed the samples for asbestos using polarized light microscopy and dispersion staining, in accordance with the procedures outlined in U.S. Environmental Protection Agency (USEPA) Method 600/R-93/116.

The MBC samples were submitted to Advanced Environmental Laboratories, Inc. (AEL), an accredited facility in Tampa, Florida, accredited by the National Environmental Laboratory Accreditation Program for metals analyses. The MBC samples were analyzed for arsenic, cadmium, chromium, lead and zinc by USEPA Method 6010C. Two (2) composite samples (Comp 1 and Comp 2), were analyzed by the Toxicity Characteristic Leaching Procedure (TCLP) for arsenic, cadmium, chromium and lead. Additionally, one (1) composite sample consisting of samples PS-12 and PS-9 (sample ID: PS-12/PS-9 Composite) was analyzed for lead using the TCLP method because of elevated lead concentrations.

2.4 Survey Results

The laboratory analytical results indicated that asbestos was detected in three (3) of the 38 bulk samples (sample locations 22, 23 and 24) collected from Bridge No. 130057. ACM samples 22, 23 and 24 contained 2% Chrysotile in the second (bottom) layer of floor tile and 5% Chrysotile in the underlying black mastic within the tender house. In accordance with 40 CFR 763, all other identified homogeneous areas were considered not to contain ACM because the results of all

samples collected from each homogeneous area indicated asbestos content of 1 percent or less.

A summary of the laboratory analytical results for the MBC samples collected at Bridge 130057 (PS-1 through PS-17) is provided in **Table 1**. Sample analyses indicates the tested coatings contain metals above detectable levels. In particular, elevated concentrations of zinc [65,000 milligram per kilogram (mg/kg), 230,000 mg/kg, 52,000 mg/kg, 140,000 mg/kg, and 72,000 mg/kg] were detected in five (5) samples, PS-3, PS-13, PS-14, PS-15 and PS-16, respectively (**Table 1**). Additionally, the lead concentrations (7,500 mg/kg and 21,000 mg/kg) in the bridge house yellow paint sample (PS-9) and the green bridge house paint sample (PS-12) exceeded the federal criteria for lead based coatings.

Three (3) composite samples, Comp 1, which was comprised of MBC samples PS-8 through PS-14; Comp 2, which was comprised of MBC samples PS-1 through PS-7 and PS-15 through PS-17; and the PS-12/PS-9 Composite sample were collected from Bridge No. 130057 and submitted to AEL for laboratory analysis. Sample analyses for composite samples Comp. 1 and Comp. 2 indicate the tested coatings, as an aggregate, do not contain metals concentrations above the TCLP Regulatory Levels. However, the lead concentration (77 milligrams per liter) in the TCLP composite coating sample representing the bridge house yellow paint and the green bridge house paint exceeded the TCLP regulatory level; therefore, these coatings would be classified as hazardous waste. A summary of the laboratory analytical results for the composite samples is provided in **Table 2**.

Copies of the Report of a Comprehensive NESHAP Demolition Asbestos Survey prepared by DMC, the laboratory analytical reports and Chain of Custody Records for the ACM bulk samples and the MBC test results are provided in **Appendix C**.

2.5 Placement of Polychlorinated Biphenyls (PCB) Warning Sign

NorthStar personnel installed a PCB Warning Sign on the coating covering a previous PCB release on the support underneath the north side of the drawbridge channel on July 30, 2018. The PCB sign consisted of a PCB warning label placed on aluminum. NorthStar personnel utilized construction adhesive to paste the PCB Warning Sign into place. The coating encapsulating the former PCB release appeared to be in good condition, with no obvious signs of areas where exposure to employees or the general public has occurred. A photograph of the PCB Warning Sign is provided in **Appendix B**.

3.0 CONCLUSION AND RECOMMENDATIONS

At the request of the FDOT, NorthStar provided ACM and MBC survey services on Bridge No. 130057 in support of planned improvement activities. **Based on the results of the ACM survey of Bridge No. 130057 conducted by DMC on July 31, 2018, ACM is present on the bridge at ACM sample points 22, 23 and 24 (floor tile and mastic) that could impact construction activities.** Additionally, any brake pads and engine gaskets associated the bridge motor and braking systems would be considered assumed ACM until these areas can be accessed and surveyed; however, destructive sampling should not be completed until bridge demolition of these components is necessary to ensure the integrity of the bridge components. NorthStar therefore recommends abatement activities for the bridge at asbestos homogeneous area 8 Bridge Tender House 12" Floor Tile (bottom layer). If the bridge renovation contractor encounters any material on any area of the bridges that may potentially contain ACM, renovation activities should be halted immediately and the FDOT District 1 District Contamination Impact Coordinator (Mr. Jeffrey W. James) should be contacted at (863) 519-2625. Please refer to section 7.0 of DMC's asbestos survey report in **Appendix C** for further conclusions and recommendations**.**

Based on the results of the MBC survey, sample analyses indicate the tested coatings contain metals above detectable levels, which could result in worker exposure. In particular, elevated concentrations of zinc or lead were detected in 8 samples (PS-9, PS-10, PS-12, PS-13, PS-14, PS-15 and PS-16). However, there are currently no direct correlations between total concentrations of metals in surface coatings and potential resulting airborne concentrations. Additionally, **the lead concentrations (7,500 mg/kg and 21,000 mg/kg) in the bridge house yellow paint sample (PS-9) and the green bridge house paint sample (PS-12) exceeded the federal criteria for lead based coating.**

NorthStar personnel installed a PCB warning sign on the coating covering a previous PCB release on July 30, 2018. The coating covering the former PCB release appeared to be in good condition. No intrusive work should be performed on this PCB-impacted materials except by qualified personnel with appropriate controls to prevent releases to the environment and to prevent worker exposure.

4.0 RESPONSE ACTIONS

4.1 O&M and Abatement Plan for ACM in Floor Tile & Mastic

The asbestos homogeneous area 8 Bridge Tender House 12" Floor Tile (bottom layer) contains ACM.

Renovation or demolition can proceed with engineering controls that maintain the 12" Floor Tile and mastic as non-friable. The use of wet demolition methods is required.

Operations and Maintenance:

While ACM remains on the structure, O&M procedures should be in effect. These include:

Employees working in the tender house shall be notified that bottom layer of the 12" Floor Tile and mastic contains ACM.

No attempt shall be made to remove the 12" Floor Tile and mastic to ensure the material remains non-friable.

In the event that the renovation cannot be proceed without impacting the 12" Floor Tile and mastic, the 12" Floor Tile and mastic will need to be removed by a qualified asbestos contractor prior to the renovation.

Abatement:

Regulated asbestos-containing material (RACM) must be abated prior to demolition or renovation of a facility in accordance with USEPA NESHAP 40 CFR, Subpart M, Part 61.145 and with the abatement procedures described in the Florida asbestos program described in Chapter 62-257, Florida Administrative Code. Additionally, work practices and engineering controls described in OSHA Construction Standard 1926.1101 must be implemented, utilizing personnel licensed in accordance with Chapter 469 of the Florida Statutes.

No asbestos abatement activities shall be performed without prior approval of the Department's Representative.

Notifications for abatement or demolition shall be sent to the Florida Department of Environmental Protection at least 10 working days prior to abatement activities.

Personal protective equipment shall consist of half-face negative pressure air-purifying respirators, hoods, gloves, boots and disposable coveralls during isolation, preparation and abatement activities. Additionally, a minimum of 25% of the personnel working in the exclusion zone must wear personal air monitors to determine worker exposure.

Area air sampling shall be conducted before, during and after ACM abatement by a licensed asbestos inspector.

The ACM shall be wetted immediately prior to removal. During removal, the ACM shall be double-bagged, labelled and placed in a box truck or trailer for transportation to a certified disposal facility. An Asbestos Waste Shipment Record shall be completed and shall accompany the asbestos waste to the disposal facility. A copy of the Asbestos Waste Shipment Record shall be submitted to FDOT.

The estimated cost for abatement of the 12" Floor Tile and mastic is $7,500.00.

4.2 Response Actions for MBC

Contractors should perform demolition or renovation activities in a manner that will ensure workers are not exposed above the permissible exposure limits as specified by the Occupational Safety and Health Administration 29 CFR Subpart Z. Worker protection in the presence of metals or metals containing materials may include, but is not limited to, engineering controls, work-practice controls, hygiene facilities and practices, medical surveillance, medical removal protection for employees whose blood lead levels exceed a predetermined action limit, and employee training. Careful review and consideration of all applicable laws and regulations is recommended before determining what level of exposure exists at this rest area and what Occupational Safety and Health Administration (OSHA) standards should be applied to support compliance with federal regulatory standards. Operations such as blasting, sanding, grinding, burning or cutting the painted surfaces have the potential to produce airborne metals particles. Contractors should also ensure that paint chips are not released to the environment and are containerized and labeled for subsequent disposal.

Based on the TCLP results for the PS-12/PS-9 Composite MBC sample, the bridge house yellow paint and the green bridge house paint generated from renovation of the bridge is required to be handled as hazardous waste. Any coating wastes generated from this bridge will be properly disposed of solely by the responsible contractor.

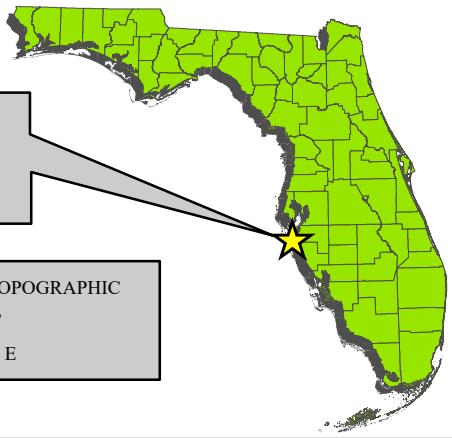
Because of the continuous operations of the bascule bridge, NorthStar recommends stabilization of the lead-based coatings referenced above. Stabilization of these coatings involves removing loose paint and other material from surfaces containing lead-based paint, and applying a new paint or protective coating over these surfaces.

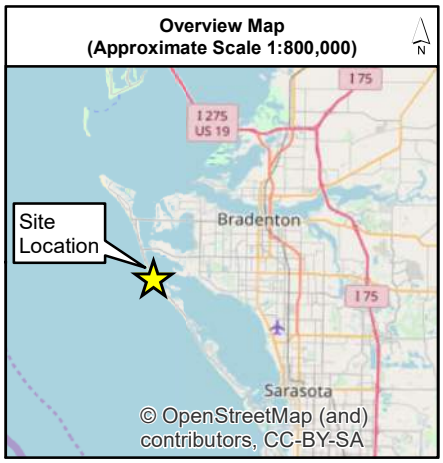
The estimated cost for stabilization of the bridge house yellow paint and the green bridge house paint is $10,000.00.

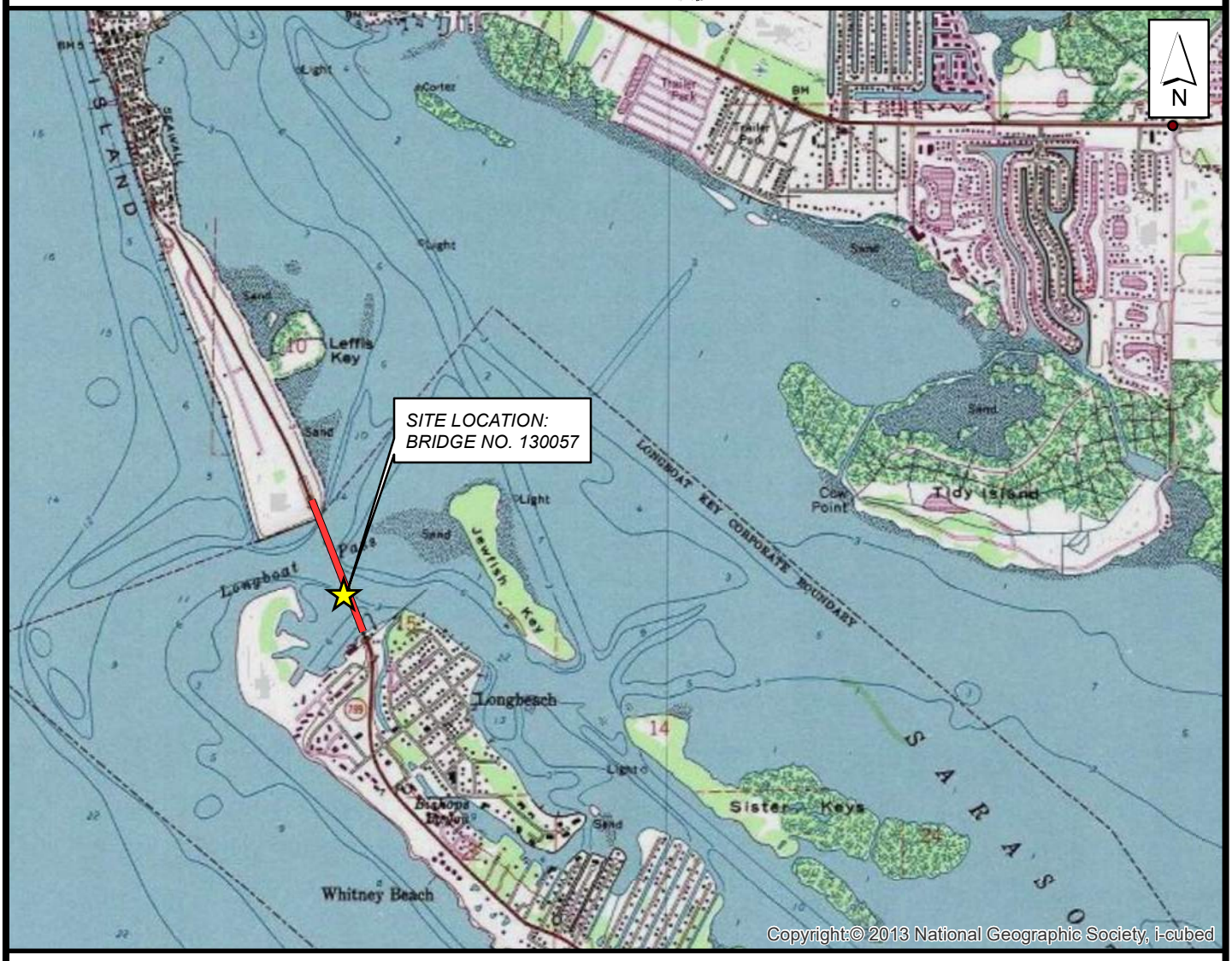
FIGURES

Site Location:
Longboat Key,
Manatee County, Florida

UNITED STATES GEOLOGICAL SURVEY 7.5' TOPOGRAPHIC QUADRANGLE MAP FOR MANATEE COUNTY, BRADENTON BEACH QUADRANGLE, SECTIONS 10 & 15; TOWNSHIP 35 S, RANGE 16 E







0 0.5 1 2 Miles

PROJECT NO.: 40-18-128		GIS ID: 4018128A001	PROJECT MANAGER: PHIL GLOVER, PG, LEP		
REVISION NO.: 00	REVISION DATE: 00/00/2018	DATE:08/06/2018	DRN BY: RL	CHK BY: PG	STATUS: **FINAL**

NorthStar
Contracting Group, Inc.
2760 FALKENBURG ROAD, RIVERVIEW, FLORIDA 33578
PHONE: (813) 684-4400 FAX: (813) 684-9177

FIGURE 1
SITE VICINITY MAP
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO.: 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NO. 436415-1-C2-52

Legend

- ASBESTOS SAMPLE LOCATION
- METALS BASED COATING SAMPLE LOCATION

N

0 125 250 500
Feet

PROJECT NO.: 40-18-128	SCALE: 1 inch = 167 feet
PROJECT MANAGER: PHIL GLOVER, PG, LEP	
GIS ID: 4018128A002	
DRN BY: RL	REVISION NO.: 00
DATE: 00/00/2018	REVISION DATE: 00/00/2018
CHK BY: GF	STATUS: **FINAL**

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FLORIDA BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF AUTHORIZATION NO.: 30941

FIGURE 2
ASBESTOS & METALS BASED COATINGS
SAMPLE LOCATIONS MAP
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO.: 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NO. 436415-1-C2-52

TABLES

TABLE 1
Metals Based Coatings Analytical Summary
SR 789 over Longboat Key Pass Bridge
Bridge No. 130057
Longboat Key, Manatee County, Florida
FDOT Financial Project No. 436415-1-C2-52

		Bridge 130057																
	Sample ID	PS-1	PS-2	PS-3	PS-4	PS-5	PS-6	PS-7	PS-8	PS-9	PS-10	PS-11	PS-12	PS-13	PS-14	PS-15	PS-16	PS-17
Metal	Location	Yellow Lane Paint	White Lane Paint	Metal Guardrail	Guardrail Post	Gray Grafitti Touch up	Tan Grafitti Touch up	White Grafitti Touch up	Blue Bridge Paint	Bridge House Yellow Paint	Bridge House Tan Paint	Gray Bridge House Ceiling	Green Bridge House Paint	Red Drawbridge Gear Paint	Orange Underbridge Paint	White I-Beam Paint	Black Piling Paint	Gray Underbridge Paint
Arsenic	-	3.0 U	4.1 U	5.1 U	73 I	0.52 I	1.4 I	1.7	53	3.3 U	0.34 U	0.43 U	0.43 U	4.5	6.3 I	0.33 U	2.4 U	0.74 I
Cadmium	-	0.36 U	0.48 U	51	22	0.042 U	0.052 U	0.28	15	11	1.1	0.69	0.80	1.6	2.8	0.4	1.2	0.40
Chromium	-	5.7 U	7.7 U	480	810	2.0	5.6	20	150	1000	250	33	28	7.6	16	2.1	4.5 U	3.7
Lead	-	4.2 I	110	350	240	3.2	20	34	39	**7500**	1800	380	**21000**	94	790	6.5	27	27
Zinc	-	140	1,000	**65,000**	38,000	26	34	1800	3100	15000	3900	9100	24000	**230000**	**52,000**	**140,000**	**72,000**	31,000

TABLE 2
Metals Based Coatings TCLP Sample Results
SR 789 over Longboat Key Pass Bridge
Bridge No. 130057
Longboat Key, Sarasota County, Florida
FDOT Financial Project No. 436415-1-C2-52

		Sample ID	Sample ID	Sample ID
Metal	**TCLP Regulatory Level, mg/L**	**Comp 1 PS-8 through PS-14 (mg/L)**	**Comp 2 PS-1 through PS-7 & PS-15 through PS-17 (mg/L)**	**PS-12/PS-9 Composite**
Arsenic	5.0	0.016 U	0.016 U	NA
Cadmium	1.0	0.018	0.012	NA
Chromium	5.0	0.17	0.020 U	NA
Lead	5.0	4.0	0.13	**77**

Notes:
TCLP = Toxicity Characteristic Leachate Procedure
mg/L = milligrams per liter
NA = Not analyzed.
U = The comound was analyzed for but not detected.
Bolded and highlighted values exceed TCLP Regulatory Limit.

APPENDIX A

HEALTH AND SAFETY PLAN

Health and Safety Plan

State Road 789 Bridge over Longboat Key Pass

FPID 436415-1

FDOT Contract Number: BE149

ACM/MBC Assessment

2760 South Falkenburg Road

Riverview, Hillsborough County, Florida

NorthStar

TARGET ZERO
COMMITTED TO SAFETY

Health and Safety Plan Approvals

Scheduled Start-up Date: **7/25/18**	Scheduled Start-up Time: **0900 EST**
Project Name: **SR 789 Bridge over Longboat Key Pass** **ACM/MBC Assessment**	Site Location: Bradenton Beach, Florida
By signing below, the specific technical and management solutions to work site hazards prescribed herein are approved, and we commit to providing a work environment in line with NorthStar's vision of Safety – First and Always.	
Health and Safety Plan Author: Geoffrey Ferlita	
Signature: 	Date: July 25, 2018
Health and Safety Plan Approval	
Project Manager: Phil Glover PG, LEP	
Signatures: 	Date: July 25, 2018

Table of Contents

1.0 Health and Safety Plan

The purpose of this site-specific Health and Safety Plan (HASP) is to ensure a safe working environment for NorthStar's employees, subcontractors, and visitors; as well as to facilitate compliance with relevant governmental laws, standards and regulations relating to health, worker safety and the environment. The intent of this HASP is to identify specific hazards associated with the performance of work under the scope of the contract and to prescribe and implement technical and management solutions to protect personnel. This HASP is designed to provide the means to establish, achieve, and maintain safe working conditions through informational programs and persistent review and improvement of facilities and practices that protect the health and safety of all personnel.

This HASP provides a formal mechanism to facilitate protection of workers against foreseeable health and safety risks. This plan documents specific requirements and procedures for the protection of field personnel while working on the subject project. Other personnel, such as visitors and inspectors who enter areas under direct control of this task, must read, understand, and comply with this plan in order to ensure their own personal safety while performing prescribed activities in controlled areas. NorthStar shall take all necessary precautions in order to prevent injury to the public, building occupants (as applicable), or damage to property belonging to others. NorthStar shall meet or exceed all public safety requirements related to this project. The contents of this Health and Safety Plan will be strictly followed during this project. This HASP will be on-site at the work location while work is being performed. If revisions to this plan are required, those revisions will be incorporated into this plan.

The provisions of the plan are mandatory for all onsite employees engaged in onsite environmental investigation and remediation activities associated with this project.

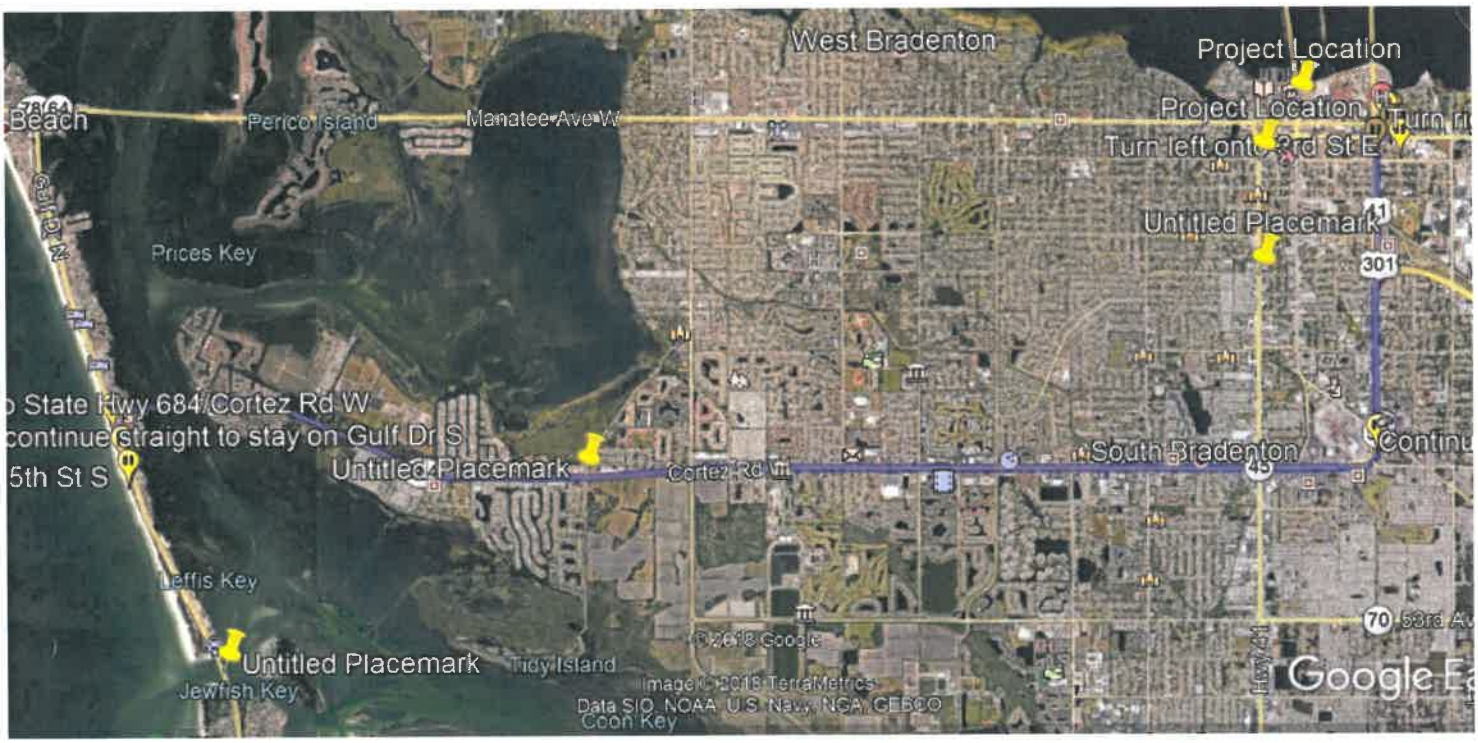
Changing and/or unanticipated site conditions may require modification of this site safety plan in order to maintain a safe and healthful work environment. Any proposed changes to this plan should be reviewed with the NorthStar EHS Representative prior to their implementation. Under no circumstances will modifications to this plan conflict with Federal, state, or other governmental health and safety regulations. This specific plan is not to be used for other projects or subsequent phases of this project without the written approval of the EHS Representative. A copy of this plan is to be maintained at the site during all work related activities.

2.0 Project Contact Information

2.1 PROJECT CONTACTS			
Project Title	State Road 789 Bridge over Longboat Key Pass		
Scope of Work	• Traffic control set up • ACM Sampling • MBC sampling		
Key Personnel			
Project Manager	Brent W. Anderson	Phone	(813) 967-7447
Superintendent		Phone	
Site Safety Officer	Geoffrey Ferlita	Phone	(813) 601-5249
NorthStar Claims Reporting	Corporate EHS	Phone	(409) 886-3959
Fire Department / EMS	W. Manatee Fire Department	Phone	(941) 761-1555
Ambulance Service	various	Phone	911
Hospital (Urgent Care)	Manatee Urgent Care	Phone	(941) 745-5999
Hospital (EMERGENCY)	Manatee Memorial Hospital	Phone	(941) 746-5111

2.2 EMERGENCY AND INCIDENT RESPONSE	
Dial 911 from a cellular phone for the following: ✓ **Occupational injury or illness that may require emergency treatment.** ✓ **Fires.** ✓ **Spill or release** **All incidents MUST be reported to the Health and Safety Manager immediately.**	
Telephone location	Employees carry cellular phones
Site address	**206 2nd Street East, Bradenton, Florida**
Nearest Hospital (w/ Urgent Care)	Manatee Memorial Hospital 206 2nd Street East Bradenton, FL 34208 12.3 miles, 27 minutes 1. Head north of Gulf Drive to Cortez Road. 2. Turn right on Cortez Road and follow it for 8.7 miles. 3. Turn right exit onto Waterfront Drive.

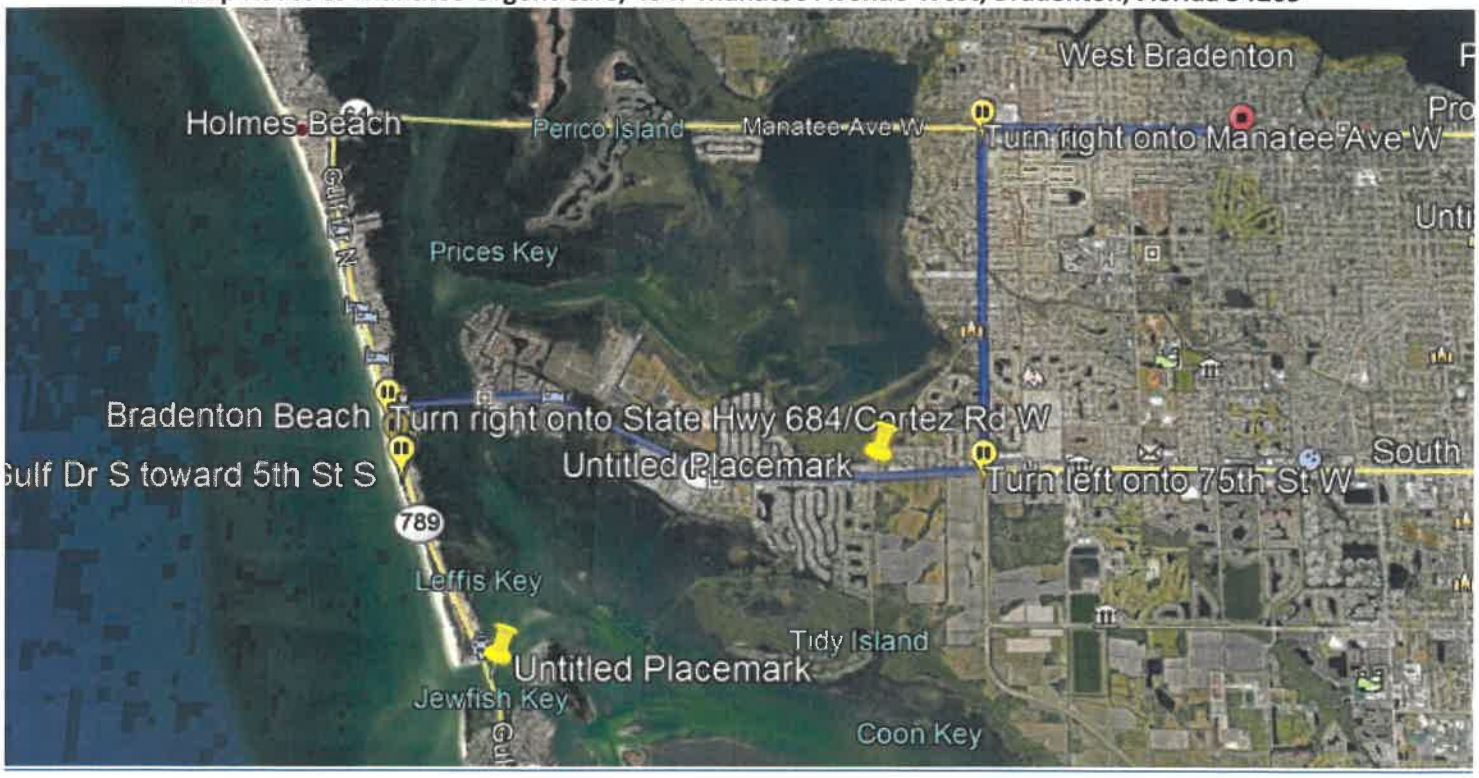
Map route to Manatee Memorial Hospital (call 911 for ambulance if health emergency occurs)



The referenced hospital location will be used to provide medical treatment in the event of an injury requiring treatment services beyond the capabilities of on-site first aid. On-site NorthStar personnel maintain current First Aid / CPR training certifications and can administer first aid services. First aid kits are available in work areas and in the on-site emergency stations. All injuries regardless of severity must be immediately reported to the Health and Safety Representative. Injuries requiring emergency medical treatment or ambulance services must be reported to facility project manager.

2.3	EMERGENCY AND INCIDENT RESPONSE
Urgent Care Clinic	Manatee Urgent Care 4647 Manatee Avenue West, Bradenton, Florida 34209 **17 MIN | 8.5 MILES** 2. Start out going north on Gulf Drive to Cortez Road. 3. Turn right onto Cortez Road and continue for 3.9 miles. 4. Turn left onto 75th Street West and continue for 2.3 miles. 5. Turn right onto Manatee Avenue/SR 64 and continue for 1.7 miles. 6. Destination will be on the south side of SR 64.

Map Route to Manatee Urgent Care, 4647 Manatee Avenue West, Bradenton, Florida 34209



The referenced Urgent Care Clinic will be used to provide medical treatment for non-life threatening injuries that are beyond the capabilities of on-site first aid. First aid kits are available in work areas and in the on-site emergency stations. All injuries regardless of severity must be immediately reported to the Site Safety Officer and Duke EHS Representative.

2.3 Emergency Rally Points

2.3.1 Facility Evacuation Meeting Point

The evacuation meeting point will be the singular point all employees are to meet at in the event of a

site evacuation. Once at the meeting point the NorthStar Superintendent will take a head count to ensure all personnel have safely evacuated. The location of the meeting point will be selected during the Tailgate safety meeting conducted by the Superintendent or Health and Safety Officer prior to beginning work each day. The rally point will vary depending on site conditions and wind direction.

2.3.2 Emergency Communications

Communication of the emergency on site will be provided through the use of verbal communication, hand signals, and cell **phones.**

3.0 Health and Safety Management

NorthStar takes a highly proactive approach to safety, and the teams' outstanding safety record reflects a continuous dedication to excellence in this area. In addition to adherence to required regulatory training and standards, NorthStar implements company-specific programs across all operations and departments in a concerted effort to promote safety awareness, employee well-being, and the safest possible on-site work practices. NorthStar follows NIOSH's Hierarchy of Controls to select a preferred method to reduce or eliminate exposure to the work area hazard. The Hierarchy of controls describes that the control methods in order of preference are: elimination or substitution, engineering controls, warnings, training, and personal protective equipment.

The purpose of this plan is to assign responsibilities, establish personal protection standards and mandatory safety procedures, and provide for contingencies that may arise while operations are being conducted at the site. This plan complies with, but does not replace, State and Federal Health and Safety Regulations. This plan is to be used by NorthStar as a supplement to such rules, regulations, and guidance.

The provisions of the plan are mandatory for all onsite employees engaged in performance of the scope of work associated with this project.

Changing and/or unanticipated site conditions may require modification of this site safety plan in order to maintain a safe and healthful work environment. Any proposed changes to this plan must be reviewed with the NorthStar EHS Representative prior to their implementation. Under no circumstances will modifications to this plan conflict with Federal, state, or other governmental health and safety regulations.

3.1 Safety Program Goals

NorthStar's goal for this project is to Target Zero - zero injuries and illnesses. Our objectives are to ensure employees are well informed in the hazards particular to the scope of work; all employees are comfortable, confident, and knowledgeable before engaging in any task; employees are encouraged and take ownership of participating in the safety process; and that any time a situation presents itself without a clear plan of action, work will be stopped until a resolution is reached.

3.2 Stop Work Authority

All employees on site have the authority and responsibility to stop work for conditions posing imminent hazard or danger. Imminent hazards are those hazards or situations, if allowed to persist, likely to cause an accident resulting in death, serious injury, significant property damage, or environmental impairment. NorthStar considers no activity to be so urgent or important that its standards for environmental protection, safety, or health may be compromised. Employees have the right and responsibility not to perform tasks or activities they feel pose undue risk to themselves, co-workers, or the environment.

3.3 Safety Meetings

Before the start of work each day, all NorthStar employees will attend a safety meeting. Topics for the Tailgate Safety Meetings will be selected based on observations of behaviors or conditions from previous days, or in response to upcoming activities. The emergency rally point will be selected during this meeting.

During the morning safety meeting, each crew will devote time to discussing the scope of work, the planned activities for the days, and all associated potential hazards related to those activities. This information will be documented in a bound field book and each day's health and safety meeting notes shall be signed by all crew members. All NorthStar employees and subcontractors working on the site are expected and required to attend the Tailgate Safety Meeting.

3.4 Site Compliance Inspections

In order to ensure compliance with regulatory agencies and NorthStar's internal procedures and expectations, field inspections will be performed of all our projects. On all job sites Health and Safety Representatives or the Supervisor in charge will perform regular and frequent inspections of the condition of the work site. Any findings generated from the inspection will be recorded on the inspection form and included into the corrective action tracking log. Any deficiencies found during any inspection are to be corrected immediately. Corrective actions that cannot be completed immediately will be tracked for follow-up with the responsible personnel. Only items requiring transfer/purchase of additional materials and/or equipment, or require follow-up meetings or training will not be corrected immediately.

3.5 Safety Interventions

NorthStar empowers its employees to intervene whenever they see someone exhibiting an unsafe behavior or working in unsafe conditions. When such a situation is observed, an intervention is conducted by discussing with the person how the task could be performed safely. Unsafe conditions will be corrected immediately, and any condition requiring the purchase of new tools and equipment will require a temporary task stand-down until the correct equipment is available. Unsafe behaviors may be corrected through coaching or re-training. As needed, the observer can involve the Supervisor

or local management to resolve the issue.

3.6 Site Safety Orientation

All employees, visitors, and subcontractors to the site must attend a Site Safety Orientation before being allowed to enter into the site. The objective of the site safety orientation is to review the requirements and objectives of this Health and Safety Plan and to familiarize the attendees with the scope of work in progress. Orientation sessions will be scheduled internally to accommodate new personnel as they need access to the site. All employees and subcontractors arriving to the site will complete the NorthStar orientation.

3.7 Incident Investigations

Careful investigation of incidents to determine root causes and identify corrective actions is paramount to prevent the recurrence of that incident. All employees must immediately report near misses, injuries, and illnesses according to the claims reporting procedure provided in **Appendix A**.

4.0 Chemical Hazards

There are two categories of chemical / biological hazards associated with site activities:

- Site Constituents
- Chemicals used to conduct the site work, i.e. Hazard Communication Materials

Site constituents are those that exist at the site and are the cause for conducting site activities. The chemicals that are brought on site in order to conduct the work may be hazardous and subject to regulation under OSHA's Hazard Communication Standard (29 CFR 1926.59).

From an occupational health standpoint, the levels of contaminants that have been, or could be, encountered during site activities should not represent a significant concern if the provisions of this HASP are appropriately implemented. However, the potential for exposure to elevated levels of these contaminants may exist. Overviews of the hazards associated with exposure to elevated levels of these contaminants may exist. Overviews of the hazards associated with exposure to the chemicals that may pose a hazard during site activities are presented below in terms of the following types of occupational exposure limits:

PEL - Permissible Exposure Limit (OSHA Standard)

TLV - Threshold Limit Value (ACGIH Guidance)

REL - Recommended Exposure Limit (NIOSH Guidance)

STEL- Short Term Exposure Limit

C - Ceiling

OSHA Permissible Exposure Limits (PELs), ACGIH Threshold Limit Values (TLVs), and NIOSH Recommended Exposure Limits (RELs) are time-weighted averages (TWAs) defined as concentrations for a normal 8-hour work day and 40-hour work week to which almost all workers can be repeatedly exposed without suffering adverse health effects

Short Term Exposure Limit (STEL) is defined as the concentration to which workers can be exposed for short time periods without irritation, tissue damage, or narcosis sufficient to likely cause impairment of self-rescue or precipitate accidental injury. The STEL is a 15-minute time-weighted average that should not be exceeded at any time during the workday.

A ceiling value (C) is a concentration that should not be exceeded at any time in any workday. Ceiling limits are used by OSHA, ACGIH and NIOSH for chemical exposure criteria.

4.1 Site Constituents

The site constituents of concern are arsenic, chromium, lead and asbestos. These contaminants are present as a result of construction of the bridge and road deck. Symptoms of exposure to arsenic include cough, sore throat, shortness of breath, weakness, redness, abdominal pain, diarrhea, nausea, vomiting, burning sensation in throat and chest, shock or collapse, and unconsciousness. Symptoms of exposure to chromium include eye irritation, sensitization and dermatitis. Symptoms of lead exposure include weakness, insomnia, gingival lead line, abdominal pain and eye irritation.

Additionally, Asbestos Containing Materials may affect the lung and digestive systems, leading to asbestosis, lung cancer and mesothelioma if overexposed.

Specific Metals of concern include:

Arsenic: PEL = 5 ppm (5 mg/m^3)

Chromium: PEL = 0.5 ppm (0.5 mg/ m^3)

Lead: PEL = 0.05 ppm (0.05 mg/ m^3)

Respiratory protection must be worn by those individuals conducting intrusive work in suspected asbestos-containing materials.

4.2 Hazard Communication Materials

Chemical products regulated under the OSHA Hazard Communication Standard (29 CFR 1926.59) may be used during this project. The Safety Data Sheets (SDS) for commercial products with hazardous ingredients will be maintained at the worksite. NorthStar will maintain SDS in hard copy binders on site to make SDS readily available to all employees while working on the site. The SDS for any chemical product in use at the job site may be retrieved from the manufacturer's website or by contacting the Branch office.

For this project, no hazardous materials will be utilized.

5.0 General Safety Rules

The following General Safety Rules must be strictly adhered to by all NorthStar employees, visitors, vendors, and subcontractors while on site:

- Employees must be in Level D "working" clothes and ready for work at the designated start

time.

- Employees may take lunch breaks only during designated times and must eat in the area assigned as a clean zone while on the job site. There will be no smoking, eating, or drinking while in the work zone. Smoking is only allowed in designated areas and butts must be disposed property and NOT discarded to the ground.
- Personnel will not quit work before the time designated for the conclusion of the work shift. There will be sufficient time allocated for the removal of work clothes, decontamination, etc.
- Employees must report to work each regularly scheduled work day. Continued absenteeism is a violation of these rules.
- All personnel are required to comply with NorthStar's Alcohol and Drug Free Workplace Policy as a condition of employment. Violation of any portion of this policy may be cause for immediate discharge.
- Personnel should not drink alcoholic beverages prior to reporting to work. Having reported to work, employees are then prohibited from consuming alcoholic beverages during either lunch or coffee breaks.
- Personnel must comply with both verbal and written instructions from a supervisor or foreman.
- While on the job site, personnel must comply with OSHA Safety and Health Standards for the Construction Industry and with each of the safety procedures required by the NorthStar safety program on the project.
- All personal work injuries must be reported to a supervisor immediately.
- All unsafe conditions or unsafe acts must be reported immediately to a supervisor.
- Whenever overhead work is conducted or heavy equipment is being used, hard hats must be worn by all personnel while on the job site.
- Employees must use their personal protective equipment as required by law, including but not limited to head, hearing, eye, hand, foot, and fall protection devices.
- When required, protective clothing, including hood and booties, will be worn correctly.
- When required, assigned respiratory protection equipment will be worn.
- If respirators are a requirement of the job, they will not be removed while in the work area for any reason.
- During working hours, appropriate clothing must be worn when not in containment area, including shirts, long pants and protective toe shoes.
- If air sampling equipment has been attached to an individual, this equipment must be left alone and unobstructed until instructed to remove it.
- There will be absolutely no smoking within the work zone.
- Good housekeeping by all personnel is considered mandatory.

- Employees will not engage in horseplay, practical jokes, or mischief while on the job site or Company property.
- Fighting or attempting bodily injury to another employee or Company visitor while on the jobsite or Company property is not permitted.
- Unauthorized use of, or willful or wanton neglect in the care and/or use of Company property is not permitted.
- Falsifying Company records and/or reports will not be tolerated.
- Only the person who tags-out or locks-out equipment is allowed to remove such a tag or lock from the equipment.

6.0 Site Hazards

6.1 Backing Field Vehicles

Implement the following precautions to prevent incidents during backing of field vehicles:

- Avoid backing whenever possible; ensure field vehicles are equipped with operational backup alarms.
- If backing is required, there MUST BE a spotter. If a spotter is not available, the driver MUST walk completely around the vehicle before backing up.
- When backing is likely to be a part of the activities, it must be discussed in the daily safety briefings.
- Learn your vehicle's blind spots.

6.2 Equipment Maintenance

Only trained and authorized personnel shall perform equipment repairs and maintenance. To prevent getting caught, pinched or injured by machine parts, machines must be turned off and locked out during most maintenance. Only manufacturers approved replacement parts, fluids, etc. shall be used. NorthStar employees will add fluids as necessary but will not make any more involved or serious repairs than that. Minor repairs including fluid and belt changes, surface hard facing, welding repairs, replacement of blades and teeth will be performed on site by competent and experienced NorthStar personnel. Major repairs including repair/rebuild of engine and transmission components may require a subcontracted mechanic. All subcontractors must follow the provision of this Health and Safety Plan along with all site rules.

6.3 Fire Prevention

To protect against fires, follow the following precautions:

- Type ABC fire extinguishers will be available on site to contain and extinguish small fires. The local fire department shall be summoned in the event of any fire on site.
- Fire Extinguishers shall be provided so that the travel distance from any work area to the nearest extinguisher is less than 50 feet. Fire extinguishers must also be present on aerial lifts and heavy equipment.

- Extinguishers must 1) be fully charged and in operable condition 2) be visually inspected each month, and 3) undergo a maintenance check each year. Never use an extinguisher past its annual maintenance check (paper tag).
- Keep the area in front of the extinguisher clear.
- Combustible materials stored outside should be at least 10 feet from any building.
- Solvent waste and oily rags must be kept in a fire resistant covered container until removed from the site.
- Flammable/combustible liquids must be kept in approved containers (fuel tanks or safety cans). All containers must be labeled as to their contents.
- Smoking is allowed only in designated areas.

6.4 Hand and Power Tools

Only authorized trained workers will be allowed to use powered hand tools. The hand tools expected to be used on this project include power saws, shears, string trimmers, mattocks, and shovels. The following safety guidelines should be followed:

- Keep hand and power tools in safe condition and use only for the task they were designed.
- Remove damaged and defective tools from service. "Red tag" tools requiring repair and document what is wrong with the tool before returning it to the warehouse or tool room.
- Power tools designed with guards must be equipped with those guards when in use.
- Do not carry sharp tools in pockets.
- Clean tools and return to the job box when finished using.
- Do not throw tools from place to place, from person to person, or drop from heights.

6.5 Drilling Operations

Drilling/ boring/auguring in soil activities for the collection of soil samples are covered by this procedure. Drilling methods may include cable tool, rotary drilling, hollow stem auger drilling, rotary sonic drilling, and direct push.

Specific hazards and safety rules concerning drilling operations can be categorized with the use of the acronym PRIME – personnel, rig, inhalation, mast, and evaluate.

- Personnel
    - Employees involved in the operation should not wear loose-fitting clothing, or other items such as rings or watches that could get caught in moving parts. Persons with long hair should have it constrained. Minimum protective gear includes steel-toed shoes, hearing protection, hard hats, and eye protection.
    - The rig must be equipped with adequate supplies of first aid materials. At least one member of the crew should be qualified to render first aid.
    - Smoking or use of spark-producing equipment around drilling operations is prohibited because flammable gases may be released from the subsurface environment.
- Rig
    - The drill gear boxes (transmission for rotary drive, feed control, etc.) should be placed in neutral while an operator is not at the controls. The operator must shut down the rig engines prior to leaving the immediate vicinity of the drill.
    - The drill rig should not be operated during severe inclement weather.
    - Personnel should be warned to "stand clear" prior to rig start up.
    - The rig should be leveled and stabilized with jacks and adequate cribbing before raising the mast.
- Inhalation
    - Wear the appropriate respiratory and dermal protection if exposure to hazardous vapors or contaminated cuttings and fluids is a possibility.
    - Cuttings, drilling liquids, and ground water may be contaminated. The presence of hazardous constituents should be evaluated, and the fluids managed accordingly. Direct contact with these materials should be avoided.
- Mast and Drill
    - Rig personnel and visitors should be cleared from areas to the side and behind the rig before raising the mast.
    - The mast must never be in the raised position when the drill rig is driven.
    - A signal man should be designated to assist with backing and when raising the mast.
    - The single most common fatal occupational accident among drillers is rig contact with

overhead power lines. The driller must check for overhead power lines before raising the mast.

- Before drilling the driller should secure and lock in place according to the manufacturer's instructions.
- The drill rig must be provided with a kill wire or switch which is kept in working order, and adequately labeled. Personnel should be familiar with the location of the kill switch.
- When heavy objects are hoisted aloft there is a danger of them coming down in an uncontrolled manner and at an unwanted time.
- Rig maintenance is a critical item. The driller should have a program of regular maintenance. Many companies have checklists to assist in maintenance.

- Evaluate
  - What could go wrong here, and if it does, what is the probable outcome?
  - What attitudes are prevalent among the drillers?
  - If the attitudes are unfavorable, what should I do to change them?

Common accidents at drilling sites include contact with underground or above ground electrical utilities, rig turnover, blow-out of pressurized hoses, falling objects, pinching between rods, caught on augers, cathead, or other moving parts, and falls. Good housekeeping, proper machine maintenance, appropriate PPE, and common sense should be used at all times during drilling operations.

6.6 Heat Stress Recognition and Control

This work will be conducted during the summer months; a worker may produce as much as 2 to 3 gallons of sweat during strenuous activities. It is essential water intake be about equal to the amount of sweat produced. Most workers exposed to hot or strenuous conditions drink fewer fluids than needed because of an insufficient thirst drive.

Symptoms and Treatment of Heat Stress

Type of Heat Stress	Signs and Symptoms	Treatment
Heat Syncope	Sluggishness or fainting while standing erect or immobile in heat.	Remove to cooler area. Rest lying down. Increase fluid intake. Recovery usually is prompt.
Heat Rash	Profuse tiny raised red blister-like vesicles on affected areas, along with prickling sensations during heat exposure.	Use mild drying lotions and powders, and keep skin clean for drying skin and preventing infection.
Heat Cramps	Painful spasms in muscles used during work (arms, legs, or abdomen); onset during or after work hours.	Remove to cooler area. Rest lying down. Increase fluid intake.

Heat Exhaustion	Fatigue, nausea, headache, giddiness; skin clammy and moist; complexion pale, muddy, or flushed; may faint on standing; rapid thready pulse and low blood pressure; oral temperature normal or low.	Remove to cooler area. Rest lying down, with head in low position. Administer fluids by mouth. Seek medical attention.
Heat Stroke	Red, hot, dry skin; dizziness; confusion; rapid breathing/pulse; high temperature.	Cool rapidly by soaking in cool – but not cold – water. Call ambulance and get medical attention immediately.

6.7 Housekeeping

An orderly and organized worksite is safer and more efficient than a disorganized one. General "good housekeeping" practices include:

- Walkways and common paths of travel including stairs and scaffolds should be established and kept free from the accumulation of materials.
- Access to aisles, exits, ladders, stairways, scaffolding, and emergency equipment should be kept free from obstructions and obstacles.
- Keep walkways free from slipping hazards such as spilled liquids, snow, or ice.
- Specific areas should be designated for the proper storage of materials and equipment.
- Return tools and equipment to the job boxes when done using them.
- As work progresses, scrap and unessential materials must be neatly stored or removed from the work area.
- Place trash and debris into appropriate containers and empty those containers on a daily basis.
- Clean up leaks and spills of liquids immediately.

6.8 Material Handling / Lifting Hazards

Strains and sprains in backs and extremities are possible due to overexertion in lifting, pulling and pushing loads. Workers shall have training in proper lifting techniques and back injury prevention. Employees must get assistance when lifting irregular shaped or heavy objects and use proper lifting techniques. Multiple cases must be handled on a pallet with a pallet jack or a forklift. Use of handcarts and other mechanical material handling devices is recommended. Exercise care to avoid overexertion.

The following guidelines will be followed whenever lifting equipment or any other objects that are of odd size or shape, or that weigh over 40 pounds.

All workers shall follow these basic guidelines when lifting:

- Get help when lifting heavy loads. Heavy items will only be lifted using a two-person lift.
- When moving heavy objects such as drums or containers, use a dolly or other means of assistance.

- Plan the lift. If lifting a heavy object, plan the route and where to place the object. In addition, plan communication signals to be used (i.e., "1, 2, 3, lift," etc.)
- Wear sturdy shoes in good conditions that supply traction when performing lifts.
- Keep your back straight and head aligned during the lift and use your legs to lift the load – do not twist or bend from the waist. Keep the load in front of you – do not lift or carry objects from the side.
- Keeping the heavy part of the load close to your body will help maintain your balance.

6.9 Noise Hazards

Noise-induced hearing loss is a potential hazard caused by exposure to loud and prolonged noise (e.g., work around heavy equipment, power tools, pumps, generators). Suspected high noise operations will be evaluated to determine if hearing protective devices should be worn in accordance with Northstar Hearing Conservation Program. A general field rule is to wear hearing protection if you cannot hear normal conversation within an arm length of the person talking. Hearing protective devices (HPD) are personal protective equipment worn by employees as protection against harmful noise levels which may result in temporary or permanent noise-induced hearing loss. Generally, HPD include equipment such as earplugs and earmuffs. Non-Mandatory Use of HPD: HPD are offered (i.e. non-mandatory) to employees included in similar exposure group (SEG) which have an exposure profile that is less than 90 dB for an 8-hour TWA. Mandatory Use of HPD: Mandatory use of HPD is enforced for the following conditions:

- For SEG which have an exposure profile of 90 dB or more for an 8-hour TWA.
- For any employee who has experienced a Standard Threshold Shift (STS).
- When administration of the audiometric test is postponed for any period from the time the employee is first exposed to noise at or above 85 dB, until the baseline audiometric test is conducted.

Site employees are responsible for:

- Wearing the appropriate HPD when and where required and in accordance with the training provided.
- Informing site management of any noise hazards which may not be addressed sufficiently, including any other concerns regarding this program.
- Following the appropriate procedures for the use, care, inspection, and maintenance of HPD.
- Notifying site management immediately if a HPD does not fit properly, causes irritation, or interferes with spoken instructions or warning signals to that suitable hearing protectors can be obtained.

6.10 Job Task / Hazard Table

The table below is a summary overview of the anticipated hazards and risks for the major portions of the scope of work. This table is not a replacement for the required Hazard Analysis to be prepared by the field crew before beginning the day's task.

High - Exposure likely more than 50% of the time Med - Exposure likely 10-50% of the time
Low - Exposure likely less than 10% of the time N/A – Exposure not anticipated

	Job Task	Chem. Hzds.	Fire Hzds.	Lifting Hzds.	Mech'l Hzds.	Electrical Hzds.	Heat/ Cold Stress	Slip/Trip/ Fall	Noise	Cuts
1	Site mobilization	N/A	Low	Med	Low	N/A	N/A	Low	Low	Low
2	Soil Screening/Soil Sampling	Med	Med	High	High	High	High	High	High	High
3	Groundwater Screening	Med	Low	Low	High	Med	High	High	High	Med
4	Groundwater sampling	Med	Low	Low	Low	Low	Med	Med	Low	Med
5	Site Restoration	Low	Low	Med	Med	Low	Med	Med	Med	Low
TASK MINIMUM PROTECTIVE CLOTHING/EQUIPMENT REQUIREMENTS										
2-6	Steel-toed boots, safety glasses, work gloves, high-visibility shirt or vest, and hard hats. Hearing protection during equipment operation.									

7.0 Equipment and Supplies

7.1 Personal Protective Equipment

Work will be conducted onsite in Level D PPE. The required PPE for Level D for all invasive work at this site is as follows:

- ANSI approved safety glasses + side shields
- Ear plugs or muffs
- Steel-toed boots
- Work gloves (leather)
- High visibility vest (ANSI / ISEA 107-2004)

Personnel within the work area are to wear the specified PPE during invasive site activities in accordance with this HASP. Invasive site activities include media sampling, drilling, or any activity that disturbs soil or increases exposure risks.

Limitations of Protective Clothing

The protective equipment ensembles selected for this project are anticipated to provide protection against the types and concentrations of hazardous materials that may potentially be encountered

during operations. However, no protective garment, glove or boot is resistant to all chemicals at any concentration; in fact, chemicals may continue to permeate or degrade a garment even after the source of the contamination is removed.

In order to obtain optimum usage from PPE, the following procedures are to be followed by all NorthStar personnel:

- When using disposable coveralls, don a clean, new garment after each rest break or at the beginning of each shift
- Inspect all clothing, gloves and boots both prior to and during use for:
  - Imperfect seams
  - Non-uniform coatings
  - Tears
  - Poorly functioning closures
- Inspect reusable garments, boots and gloves both prior to and during use for:
  - Visible signs of chemical permeation such as swelling, discoloration, stiffness or brittleness
  - Cracks or any signs of puncture or abrasion

Any reusable garments exhibiting any such characteristics will be discarded. Contaminated garments will be disposed in accordance with the regulatory waste handling and disposal requirements for those contaminants.

7.2 Health and Safety Equipment

- NorthStar Policies and Procedures (relevant to project)
- First Aid kits
- Drinking water
- Type ABC fire extinguishers
- Personal decontamination supplies
- Portable eyewash station

7.3 Engineering Controls to be Used (as applicable)

- Traffic cones
- Caution tape

7.4 Instrumentation to be Used

- VOC detector

8.0 Responsibilities

NorthStar will strictly adhere to the provisions of this health and safety plan, along with the applicable regulations issued by governmental entities. NorthStar will coordinate safety activities as needed with customer representatives.

8.1 NorthStar Health and Safety Manager

The Health and Safety Manager is responsible for verifying that the project is conducted in a safe manner including the following obligations:

- Verify the SSHASP is current and amended when project activities or conditions change.
- Manage the site and interface with third parties in a manner consistent with our contract/subcontractor agreements and the applicable standard of reasonable care.
- Ensure that programs are effectively functioning to prevent and control hazards on the project.
- Verify that all employees working in the field have the appropriate level of HS&E training, medical surveillance, and drug and alcohol testing for their job duties including required specialty training.
- Maintain active and visible involvement using open communication with employees regarding safety issues on the project.
- Verify that safety meetings are conducted and document in the project file as needed throughout the course of the project.
- Post required information on-site, including Occupational Safety and Health Administration (OSHA) job-site posters.
- Maintain HS&E records and documentation.
- Verify that all forms, permits, and hazard assessments are being used as outlined in this plan.
- Verify appropriate PPE use and availability.

8.2 Project Manager

The Project Manager is responsible for ensuring that the necessary personnel are available for the contracted responsibilities for this project, and that the reporting, scheduling, and budgetary obligations for the project are met. The project manager is ultimately responsible for ensuring that all project activities are completed in accordance with requirements set forth in this plan, including the following obligations:

- Ensure that the overall HS&E goals are fully and continuously implemented.
- Promote a safety culture with onsite personnel and set the example for safe behavior.

8.3 Superintendent

The Superintendent is responsible for the project's safety program and procedures and the assurance that they are followed. Each Project Superintendent in conjunction with the EHS Representative will have the overall responsibility for field implementation of the HASP. This includes communicating site

requirements to all onsite project personnel.

To achieve these objectives the Site Superintendent must provide the following:

- Consider the safety factor in planning all job site operations.
- Ensure orientation training is conducted for each new employee arriving at the project including site visitors explaining NorthStar safety policies and hazards specific to that person's work or visit. Communicate team approach to safety.
- Ensure the project site is adequately supplied with general personal protective equipment (PPE) such as safety glasses, vests, fall protection equipment and hearing protection. Need to ensure that any specialty equipment is onsite well ahead of time needed.
- Ensure that hazard analyses are reviewed and used by work crews before engaging in site activities.
- Ensure that housekeeping for all areas of the site is acceptable.
- Ensure that adequate sanitation facilities and potable drinking water is provided for employees.
- Correct any unsafe acts or conditions immediately.
- Ensure foremen and other staffs are adequately trained to perform work safely.
- Ensure incident reports and investigations are completed/submitted in a timely fashion.

8.4 Site Employees & Subcontractors

All personnel are assigned responsibility for safe and healthy operations. This concept is the foundation for involving all employees in identifying hazards and providing solutions. For any operation, individuals have full authority to stop work and initiate immediate corrective action or control. In addition, each worker has a right and responsibility to report unsafe conditions/practices. Each employee is responsible for the following:

- Perform work in a safe manner without injury, illness, or property damage.
- Perform work in accordance with company policies, and report near misses, injuries, illnesses, and unsafe conditions.
- Report all hazardous conditions and/or hazardous activities immediately to a supervisor for corrective action.
- Intervene when an unsafe behavior and/or condition is observed.

Complete a Site Safety Orientation prior to being authorized to enter the project work areas.

9.0 Respirators

Respirator use is not anticipated during the course of this project. However, should site conditions change and their use be required work will be immediately stopped. The NorthStar Project Manager and Health and Safety Manager will be notified. Work will not resume until the conditions requiring

respirator use are abated or the following requirements can be met.

Engineering controls and safe work practices (e.g. elimination of the source of contamination, ventilation equipment, limiting exposure time, etc.) must always be the primary control for air contaminants. Respirators will be used if engineering or work practice controls are not feasible for controlling airborne exposures below acceptable concentrations and as an interim control measure while engineering or work practice controls are implemented.

Once the need for respirators has been established, the respirators will be selected on the basis of the hazards to which the worker is exposed. Only NIOSH-approved respirators will be issued. Selection criteria established in 29 CFR 1926.103 has been used by the HASP Preparer in determining respirator requirements for this project.

Appropriate updates will be made to this document at the time the need for respirators is established.

10.0 Decontamination Procedures

10.1 Personnel Decontamination

Whenever respirators and accompanying PPE are used, the following steps will be followed whenever personnel leave the work area. During other activities where lesser PPE is worn, personnel will remove soiled items and wash their hands and face before eating, drinking, etc.

1. Remove all equipment that requires cleaning to the cleaning area.
2. Remove boot covers (if used).
3. Remove outer disposable coverall and place in bag for disposal.
4. Remove gloves.
5. Remove hardhat and eye protection.
6. Proceed to wash facilities and wash hands and face.

Each worker will be responsible for cleaning, sanitizing and storing their own respirator in accordance with manufacturer's guidance (i.e., washing in warm water and detergent or sanitizing solution, air drying, and storing in a plastic storage bag.)

10.2 Sanitation / Wash / Change Facilities

Sanitation facilities are provided in the form of portalets and handwashing stations located at the site. As needed, facilities will be moved around the site to provide coverage to work areas.

Potable water will be made available at the site from commercially available bottled water. Sources of non-potable water shall be clearly labeled as such.

11.0 Training and Medical Surveillance

NorthStar site personnel receive training in accordance with their assigned job responsibilities. Training is identified to ensure all employees and subcontractors have been appropriately trained, possess the required qualifications, and are competent to perform their assigned tasks. All personnel working onsite who may encounter the chemical constituents of concern will be enrolled in a medical monitoring program and will meet the HAZWOPPER training requirements promulgated by OSHA.

APPENDIX A

Field Forms

NorthStar

NORTHSTAR GROUP SERVICES, INC.
CLAIMS REPORTING PROCEDURE

TABLE OF CONTENTS

These forms can be found in the following directory folders:

SharePoint: Environmental Health & Safety / EH&S Documents / Incident Reporting

AND

New York Shared: Health & Safety / Forms / Accident Prevention and Mgmt.

*New York: Health & Safety / Workers Comp

SECTION 1 - PURPOSE

To describe the procedures for informing management of incidents and assuring timely responses, from various Company resources, to help resolve any issues resulting from an incident.

Incident - an unplanned event resulting in personal injury, occupational illness, property damage, vehicle or equipment accident, loss of assets, fire or explosion, spill or release, or adverse publicity.

SECTION 2 - POLICY

All incidents having either an immediate or potential effect on the safety and well-being of Company employees or property, our client's employees or property, the general public or other private property, will be reported and recorded within the time frame allocated.

It is company policy to voluntarily comply with all employee and visitor accident, injury and illness reporting requirements established by OSHA, State Workers Compensation Agencies, and NorthStar's Insurance Claims Service.

2.1 - Reporting Sequence

Company personnel are required to immediately report all incidents to their supervisor.

The supervisor will immediately notify the assigned Health and Safety Officer or, if unavailable, the Corporate Safety Office in Orange, Texas at 409.886.3959. The assigned Safety Officer will then immediately notify Corporate Safety and the Branch and Operations Managers.

All incidents to be reported include:

- All accidents with injury regardless if on-site first aid or medical treatment;
- All motor vehicle or equipment accidents with or without injuries;
- All Fires / explosion with or without injuries and regardless of property damage;
- All spills and/or releases of hazardous substances regardless of quantities involved;
- All incidents with property damage.

2.2 – Documentation Submittal

Incident documentation (i.e. Employee Injury & Investigation Report and doctor's reports, etc.) are required within 24 hours of incident or first notice to supervisor. Send ALL incident documentation to both the following claims managers:

Kendra Shelton
NorthStar/LVI Claims Manager
1201 S. Childers Road
Orange, TX 77630
kshelton@lviservices.com

Marlene Haworth
NorthStar/NCM Claims Manager
8160 304th Ave. SE
Preston, WA 98027
mhaworth@ncmgroup.com

NorthStar

Employee Injury & Investigation Report

INCIDENT INFORMATION

Date of Incident:	Time:	Branch Location:	Co. #	Job Number:	Job Name: ☐ Check if OCIP

Job Address:	Shift Start/End Time:
	Days/Wk & Hrs/Day:
Project Manager Name:	Supervisor Name:
Date of Report if Different from Date of Incident:	Supervisor Contact No.:
Project Supervisor Notified? ☐ Yes ☐ No	When? / Who?
Health & Safety Representative Notified? ☐ Yes ☐ No	When? / Who?

INJURED EMPLOYEE

Name:		Address:
Sex: ☐ Male ☐ Female	Phone:	
Occupation & Code (A=Asb, D=Demo, O=Other):	Age:	DOB:
Social Security Number:	Employee No.:	Date of Hire:
Wage Rate:	No. of Dependents: / Marital Status:	Yrs of Exp:

Nature of Injury			
☐ Strain / Sprain	☐ Bruise/Contusion	☐ Carbon Monoxide	Injured Part of Body:
☐ Fracture	☐ Scratch/Abrasion	☐ Dislocation	
☐ Laceration/Cut	☐ Crushing	☐ Internal	Remarks:
☐ Electrical Shock	☐ Burn/Scald	☐ Foreign Body	
☐ Other (specify):	☐ Slip/Trip/Fall	☐ Chemical Reaction	☐ Check if employee NOT on Duty at time of injury

Treatment	
☐ First Aid on Site	Treating Physician or Facility:
☐ Occupational Clinic	Address:
☐ Emergency Room	Phone:
☐ Hospitalization	How was employee transported to Physician or Facility:

DAMAGED PROPERTY

Property Damaged:	Describe Damage:
Object or Substance Inflicting Damage:	

DAMAGED EQUIPMENT

☐ NorthStar Equipment	☐ Rental Equipment	Describe Damage:
Rental Company Name:		
Equipment Serial No.:		
Object or Substance Inflicting Damage:		

DESCRIBE WHAT HAPPENED (attach Employee Statement of Injury form, include photographs if necessary)

WITNESSES (attach Witness Statement forms for each)

Please list the name, contact number and address of any witnesses:

THIRD PARTY

Was cause of incident due to negligence of a 3rd party? ☐ Yes ☐ No	Provide Name:
Address:	Phone Number:
Employer Name/Address:	☐ Check if party on duty during incident

NorthStar

Employee Injury & Investigation Report

Injured Name:	Employee No.:	DOI:

INCIDENT ANALYSIS

Using the root cause analysis list below, explain the cause(s) of the incident in as much detail as possible.

Were Safeguards or Safety Equipment Provided? ☐ Yes ☐ No	Were They Used? ☐ Yes ☐ No
As a result of this incident, was employee Drug Tested? ☐ Yes ☐ No	Was employee Alcohol Tested? ☐ Yes ☐ No

ROOT CAUSE ANALYSIS (Check All That Apply)

Unsafe Acts	Unsafe Conditions	Management Deficiencies
☐ Improper work technique	☐ Extreme temperature (hot or cold)	☐ Lack of written procedures or policies
☐ Safety rule violation	☐ Congested work area	☐ Safety rules not enforced
☐ Improper PPE or PPE unused	☐ Hazardous substance	☐ Hazards not identified
☐ Operating without authority	☐ Fire or explosion hazard	☐ Safety equipment unavailable
☐ Failure to warn or secure	☐ Inadequate ventilation	☐ Insufficient work training
☐ Operating at improper speed	☐ Improper material storage	☐ Insufficient supervisor training
☐ By-passing safety devices	☐ Improper tool or equipment	☐ Improper maintenance
☐ Guards not used	☐ Insufficient knowledge of job	☐ Non-compliance not corrected
☐ Improper loading or placement	☐ Slippery condition	☐ Inadequate job planning
☐ Improper lifting	☐ Poor housekeeping	☐ Inadequate job oversight
☐ Line of Fire	☐ Excessive noise	☐ Inadequate workplace inspections
☐ Horseplay	☐ Inadequate guarding of hazards	☐ Inadequate equipment
☐ Drug or Alcohol use	☐ Defective tools/equipment	☐ Unsafe design or construction
☐ Unnecessary haste	☐ Insufficient lighting	☐ Inadequate communication of expectations
☐ Unsafe act of others	☐ Inadequate fall protection	☐ Improper performance is rewarded
☐ Other:	☐ Other:	☐ Other:

How often is this task performed? ☐ Frequent ☐ Occasional ☐ Rare

PREVENTIVE ACTIONS

Describe actions that will be taken to prevent recurrence.	Deadline	By Whom	Date Completed

REPORT REVIEW

Supervisor's Signature:	Print Name of Signer:	Date Reviewed:
Safety Officer Signature:	Print Name of Signer:	Date Reviewed:

EMPLOYEE STATEMENT OF INJURY

Declaracion de Herida del Empleado

Y Completed by Employee
Y Completed by Translator

Translater Signature

Name: _____ Date of Birth: _____

Nombre *Fecha de Nocimiento*

Date Injury Occurred: _____ Time Injury Occurred: _____

Fecha ocurrida de la herida *Hora ocurrida de la herida*

Name/Title of Person Notified: _____

Nombre/Titulo de la persona que Notifica

Date Injury Reported: _____ Time Injury Reported: _____

Fecha del Roporte de la Herida *Hora del Reporte de la Herida*

Address Where Injury Occurred:
Direccion donde ocorrio la Herida:

Location Where Injury Occurred (Docks, Stairs, etc.):
Ubicacion donde ocurrio la Herida:

Describe in your own words how and why the injury occurred:
Describa consus propias palabias como y Porque la herida ocurrio

Type of Injury (Cut, Sprain, etc.):
Tipo de Herida

Part(s) of Body Injured:
Partes Heridas del cuerpo

List Name(s) of any Witnesses:
Nombre de los Testigos

Employee Signature/Firma del Empleado ***Date of Signature/Fecha de la Firma***

WITNESS STATEMENT

Name: _____ Phone Number: _____

Address: _____ Employer: _____

Date of Incident: _____ Time Incident Occurred: _____

Address where incident occurred: _____

_____

Location Where Incident Occurred (i.e. Docks, Stairs): _____

_____

Describe in your own words how the incident occurred: _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Witness Signature ***Date of Signature***

NorthStar

NORTHSTAR GROUP SERVICES

Branch Location:

_____

EMPLOYEE WORK ACCIDENT RELEASE FORM

The undersigned employee has been involved in an accident during the course of employment and has been requested by his/her employer to report to the company medical provider for examination and treatment of any work related injury arising from the accident. The undersigned employee has chosen to **refuse to report for a medical examination and medical treatment.** The refusal is because the undersigned has not sustained any injury from the accident. In consideration of the foregoing, the undersigned employee hereby releases forever his/her employer, NorthStar Group Services and all of its affiliates, from all claims and liability arising from the accident which occurred in the course of his/her employment as indicated below.

Date of Injury:_____ **Time of Injury:** _____

Employee Name:_____ **Social Security No.:** _____

Supervisor:_____ **Project Location:** _____

Nature of Injury, Body Part Affected: _____

_____

_____

_____ _____

Employee Signature Date

_____ _____

Witness to Signature Date

_____ _____

Supervisor Signature Date

2/07

NorthStar

AUTO ACCIDENT REPORT

NCM

NORTHSTAR VEHICLE INFORMATION

Vehicle No.: _____ Year: _____ Make: _____ Model: _____ VIN#: _____

Plate No./State: _____ Drivable ☐ Towed ☐ If Towed, Where? _____

Did the accident occur on a jobsite? ☐ Yes ☐ No If Yes, Job No: _____ Job Name: _____

NGS Owned ☐ Leased ☐ _____ (NGS Branch or Leasing Co.) Vehicle Damage: _____

NORTHSTAR DRIVER INFORMATION

Driver Name: _____ Date of Birth: _____ Branch Employed: _____

Address: _____ Phone: _____ License No./State: _____

Injuries: ☐ Yes ☐ No If Yes, List Injuries: _____ Treatment Facility: _____

THIRD PARTY INFORMATION

Driver Name: _____ Phone: _____ License No./State: _____

Address: _____ Vehicle: _____ (Year Make Model) Plate: _____ (State Number)

Insurance Co.: _____ Policy No.: _____ Phone: _____

Vehicle Owner: _____ Address: _____ Phone: _____

Vehicle Damages: _____ If Towed, Where: _____

Injuries: ☐ Yes ☐ No If Yes, List Injuries: _____ Treatment Facility: _____

PASSENGER INFORMATION

NGS Passenger: _____ (Name Address Phone Injuries)

Other Party: _____ (Name Address Phone Injuries)

Other Party: _____ (Name Address Phone Injuries)

INCIDENT INFORMATION

Date of Incident: _____ Time of Incident: _____ Date & Time reported to NGS: _____

Witness Name (1) _____ Witness Phone No.: _____

Witness Name (2) _____ Witness Phone No.: _____

Authorities Contacted: ☐ Police ☐ Fire ☐ Ambulance Agency Name: _____

Agency Address: _____ Report # _____ Phone: _____

Description of Incident:

_____

_____

Location of Incident: _____ (City / County / State) On: _____ (Street or Highway) At: _____ (Intersection)

Describe any condition or activity that may have contributed to the incident:

_____

Other Property Damage:

PROVIDE THE FOLLOWING: Police Report, Pictures of All Property Damage, Damage Estimates, Witness and/or Passenger Statements

Investigated By: _____ (Signature / Print Name / Date) Reviewed By: _____ (Signature / Print Name / Date)

NorthStar

GENERAL LIABILITY LOSS NOTICE

LVI NCM

PROJECT INFORMATION

Branch Location: _____ VP CO#: _____ Project No.: _____ Report Date: _____

Project Name: _____ Job Address: _____

Project Manager: _____ Supervisor: _____

General Contractor: _____ GC Contact Name: _____ Phone No.: _____

Property Owner: _____ Owner Contact: _____ Phone No.: _____

NGS Contracted With _____ NGS Sub-Contractors: _____

BODILY INJURY

Name of Injured: _____ Date of Birth: _____ Phone No.: _____

Address: _____ Occupation: _____

Employer: _____ Employer Address: _____

Description of Injury: _____ Medical Facility: _____

Is NGS Contracted with Injured's Employer? ☐ Yes ☐ No If Yes, please explain: _____

PROPERTY DAMAGE

Property Owner: _____ Contact Name: _____ Phone No.: _____

Address: _____ Estimated Cost: _____

Description of Property: _____ Property Damage: _____

Is NGS Contracted with Property Owner? ☐ Yes ☐ No If Yes, please explain: _____

INCIDENT INFORMATION

Date of Incident: _____ Time of Incident: _____ Date & Time reported to NGS: _____

Witness Name (1): _____ Witness Phone No.: _____

Witness Name (2): _____ Witness Phone No.: _____

Authorities Contacted: ☐ Police ☐ Fire ☐ Ambulance Authority Name: _____

Authority Address: _____ Report No.: _____ Phone No.: _____

Description of Incident: _____

Specify the location of the incident:

Describe any condition or activity that may have contributed to the incident:

List any other parties involved:

PROVIDE THE FOLLOWING DOCUMENTS: NorthStar contracts with all parties involved and related Certificates of Insurance.

Investigated By: _____ Reviewed By: _____

Signature / Print Name / Date *Signature / Print Name / Date*

Forward Copies to: Corporate Safety Office, Regional Safety Manager, Branch Safety, Branch Manager/Company President

NorthStar
DAILY SAFETY MEETING

Date: 7/26/18 Job Name: _____

1. Work to be completed: Asbestos MBC sampling
2. Hazards associated with this work: Traffic/Heat
3. Hazard control measures to be implemented: MBT/Proper clothing HI-VIZ

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D PPE

Chemical Hazards: Asbestos/MBC

Physical Hazards: Traffic/Heat

Emergency Procedures: Mob to Hosp. / Call 911

ATTENDEES

NAME PRINTED	SIGNATURE
Kevin Breshears	
Chris Harding	Chris Hard
Tristin Weyman	
MIKE BRADSHAW	

Meeting Conducted by: Geoff Fenlon

NorthStar
DAILY SAFETY MEETING

Date: 7-30-18 Job Name: SR 789 over Longboat Key Pass

1. Work to be completed: Complete MBC sampling + install MBC signs
2. Hazards associated with this work: Chem. exposure; boat hazards
3. Hazard control measures to be implemented: Level D PPE; life jackets + shore monitor

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D PPE

Chemical Hazards: Metals

Physical Hazards Boat hazards

Emergency Procedures: ~~Boat~~ Shore monitor dials 911 and helps w/ rescue

ATTENDEES

NAME PRINTED	SIGNATURE
Philip L. Glover	Philip L. Glover
Geoff Fenlon	
Greg Garrison	

Meeting Conducted by: Philip L. Glover

NorthStar
DAILY SAFETY MEETING

Date: _____ Job Name: _____

1. Work to be completed:
2. Hazards associated with this work:
3. Hazard control measures to be implemented:

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment:

Chemical Hazards:

Physical Hazards

Emergency Procedures:

ATTENDEES

NAME PRINTED	SIGNATURE

Meeting Conducted by:_____

NorthStar
DAILY SAFETY MEETING

Date: _____ Job Name: _____

1. Work to be completed:
2. Hazards associated with this work:
3. Hazard control measures to be implemented:

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment:

Chemical Hazards:

Physical Hazards

Emergency Procedures:

ATTENDEES

NAME PRINTED	SIGNATURE
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Meeting Conducted by:_____

APPENDIX B

PHOTOGRAPHS

Photograph 1
View of Bridge No. 130057 Longboat Key Pass Bridge.

Photograph 2
View of Asbestos Homogeneous Area 1 – Bridge Barriers – Concrete (Sample Location 1).

Project No. 4018128	ID:	DATE: 7/26/2018

NORTHSTAR CONTRACTING GROUP, INC.
2760 FALKENBURG ROAD, RIVERVIEW, FLORIDA 33578
PH:(813) 684-4400

SITE PHOTOGRAPHS 1 & 2
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 3
View of Asbestos Homogeneous Area 1 – Bridge Barriers – Concrete (Sample Location 2).

Photograph 4
View of Asbestos Homogeneous Area 1 – Bridge Barriers – Concrete (Sample Location 3).

NORTHSTAR CONTRACTING GROUP, INC.
2760 FALKENBURG ROAD, RIVERVIEW, FLORIDA 33578
PH:(813) 684-4400

SITE PHOTOGRAPHS 3 & 4
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 5
View of Asbestos Homogeneous Area 2 – Bridge Sidewalk – Concrete (Sample Location 4).

Photograph 6
View of Asbestos Homogeneous Area 2– Bridge Sidewalk – Concrete (Sample Location 5).

Project No. 4018128	ID:	DATE: 7/26/2018

NORTHSTAR CONTRACTING GROUP, INC.
2760 FALKENBURG ROAD, RIVERVIEW, FLORIDA 33578
PH:(813) 684-4400

SITE PHOTOGRAPHS 5 & 6
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 7
View of Asbestos Homogeneous Area 2 – Bridge Sidewalk – Concrete (Sample Location 6).

Photograph 8
View of Asbestos Homogeneous Area 3– Bridge Roadway Surface – Concrete (Sample Location 7).

Project No. 4018128	ID:	DATE: 7/26/2018

NORTHSTAR CONTRACTING GROUP, INC.
2760 FALKENBURG ROAD, RIVERVIEW, FLORIDA 33578
PH:(813) 684-4400

SITE PHOTOGRAPHS 7 & 8
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 9
View of Asbestos Homogeneous Area 3 – Bridge Roadway Surface – Concrete (Sample Location 8).

Photograph 10
View of Asbestos Homogeneous Area 3– Bridge Roadway Surface – Concrete (Sample Location 9).

Project No. 4018128	ID:	DATE: 7/26/2018

NORTHSTAR CONTRACTING GROUP, INC.
2760 FALKENBURG ROAD, RIVERVIEW, FLORIDA 33578
PH:(813) 684-4400

SITE PHOTOGRAPHS 9 & 10
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 11
View of Asbestos Homogeneous Area 4 – Bridge Roadway Surface – Reflector Mastic (Sample Location 10).

Photograph 12
View of Asbestos Homogeneous Area 4 – Bridge Roadway Surface – Reflector Mastic (Sample Location 11).

Project No. 4018128	ID:	DATE: 7/26/2018

NORTHSTAR CONTRACTING GROUP, INC.
2760 FALKENBURG ROAD, RIVERVIEW, FLORIDA 33578
PH:(813) 684-4400

SITE PHOTOGRAPHS 11 & 12
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 13
View of Asbestos Homogeneous Area 4 – Bridge Roadway Surface – Reflector Mastic (Sample Location 12).

Photograph 14
View of Asbestos Homogeneous Area 5 – Bridge Roadway Surface – Yellow Lane Paint (Sample Location 13).

NORTHSTAR CONTRACTING GROUP, INC.
2760 FALKENBURG ROAD, RIVERVIEW, FLORIDA 33578
PH:(813) 684-4400

SITE PHOTOGRAPHS 13 & 14
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 15
View of Asbestos Homogeneous Area 5 – Bridge Roadway Surface – Yellow Lane Paint (Sample Location 14).

Photograph 16
View of Asbestos Homogeneous Area 5 – Bridge Roadway Surface – Yellow Lane Paint (Sample Location 15).

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SITE PHOTOGRAPHS 15 & 16
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 17
View of Asbestos Homogeneous Area 6 – Bridge Roadway Surface – White Lane Paint (Sample Location 16).

Photograph 18
View of Asbestos Homogeneous Area 6 – Bridge Roadway Surface – White Lane Paint (Sample Location 17).

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SITE PHOTOGRAPHS 17 & 18
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 19
View of Asbestos Homogeneous Area 6 – Bridge Roadway Surface – White Lane Paint (Sample Location 18).

Photograph 20
View of Asbestos Homogeneous Area 7 – Roadway Surface – Expansion Joint (Sample Location 19).

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SITE PHOTOGRAPHS 19 & 20
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 21
View of Asbestos Homogeneous Area 7 – Roadway Surface – Expansion Joint (Sample Location 20).

Photograph 22
View of Asbestos Homogeneous Area 7 (not from actual location) – Roadway Surface – Expansion Joint (representative of Sample Location 21).

Project No. 4018128	ID:	DATE: 7/26/2018

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SITE PHOTOGRAPHS 21 & 22
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 23
View of Asbestos Homogeneous Area 8 – Bridge Tender House – 12” Floor Tile (2 Layers) (Sample Location 22).

Photograph 24
View of Asbestos Homogeneous Area 8 – Bridge Tender House – 12” Floor Tile (2 Layers) (Sample Location 23).

Photograph 25
View of Asbestos Homogeneous Area 8 – Bridge Tender House – 12" Floor Tile (2 Layers) (Sample Location 24).

Photograph 26
View of Asbestos Homogeneous Area 9 – Bridge Tender House – Concrete Walls & Roof (Sample Location 25).

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SITE PHOTOGRAPHS 25 & 26
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
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Photograph 27
View of Asbestos Homogeneous Area 9 – Bridge Tender House – Concrete Walls & Roof (Sample Location 26).

Photograph 28
View of Asbestos Homogeneous Area 9 – Bridge Tender House – Concrete Walls & Roof (Sample Location 27).

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SITE PHOTOGRAPHS 27 & 28
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
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Photograph 29
View of Asbestos Homogeneous Area 10 – Abutments, Beams & Pilings – Concrete (Sample Location 28).

Photograph 30
View of Asbestos Homogeneous Area 10 – Abutments, Beams & Pilings – Concrete (Sample Location 29).

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SITE PHOTOGRAPHS 29 & 30
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 31
View of Asbestos Homogeneous Area 10 – Abutments, Beams & Pilings – Concrete (Sample Location 30).

Photograph 32
View of Asbestos Homogeneous Area 10 – Abutments, Beams & Pilings – Concrete (Sample Location 31).

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SITE PHOTOGRAPHS 31 & 32
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
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Photograph 33
View of Asbestos Homogeneous Area 10 – Abutments, Beams & Pilings – Concrete (Sample Location 32).

Photograph 34
View of Asbestos Homogeneous Area 11 – Embankments – Rip-Rap Concrete (Sample Location 33).

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SITE PHOTOGRAPHS 33 & 34
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 35
View of Asbestos Homogeneous Area 11 – Embankments – Rip-Rap Concrete (Sample Location 34).

Photograph 36
View of Asbestos Homogeneous Area 11 – Embankments – Rip-Rap Concrete (Sample Location 35).

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SITE PHOTOGRAPHS 35 & 36
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 37
View of Asbestos Homogeneous Area 12 – Abutments, Beams & Pilings – Concrete (Sample Location 36).

Photograph 38
View of Asbestos Homogeneous Area 12 – Abutments, Beams & Pilings – Concrete (Sample Location 37).

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PH:(813) 684-4400

SITE PHOTOGRAPHS 37 & 38
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 39
View of Asbestos Homogeneous Area 12 – Abutments, Beams & Pilings – Concrete (Sample Location 38).

Photograph 40
View of Metals Based Coating Sample PS-1 (Yellow Lane Paint).

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NORTHSTAR CONTRACTING GROUP, INC.
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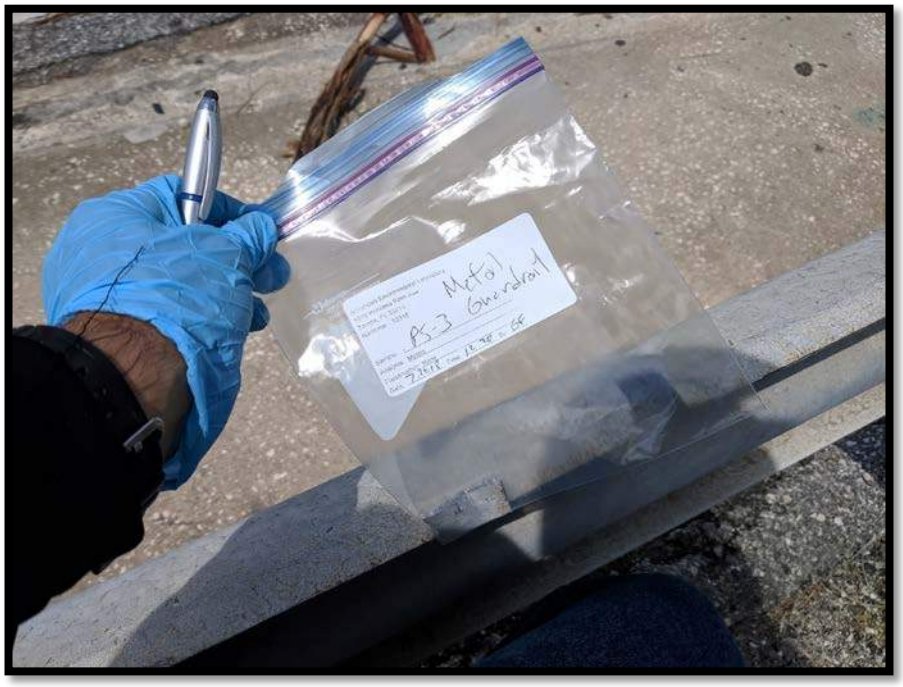
PH:(813) 684-4400

SITE PHOTOGRAPHS 39 & 40
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 41
View of Metals Based Coating Sample PS-2 (White Lane Paint).



Photograph 42
View of Metals Based Coating Sample PS-3 (Metal Guardrail).

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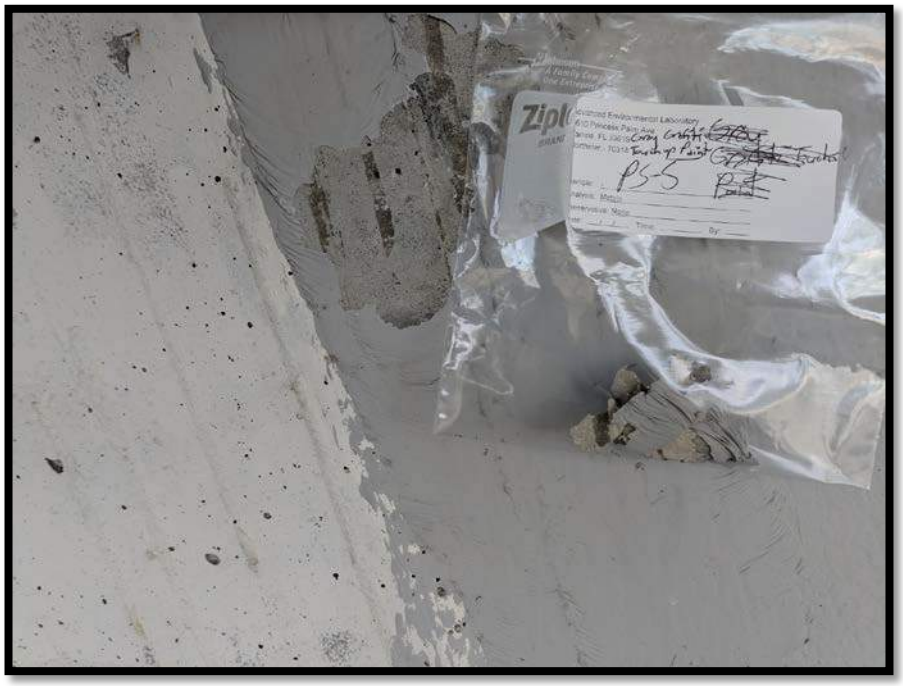
PH:(813) 684-4400

SITE PHOTOGRAPHS 41 & 42
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 43
View of Metals Based Coating Sample PS-4 (Guardrail Post).



Photograph 44
View of Metals Based Coating Sample PS-5 (Gray Grafitti Touch Up).

Project No. 4018128	ID:	DATE: 7/26/2018

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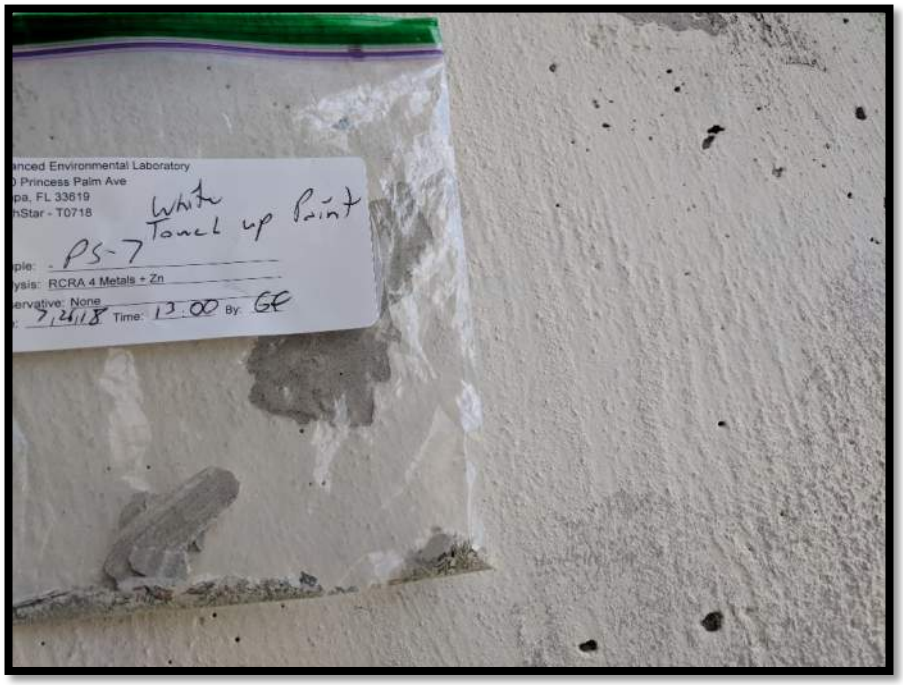
PH:(813) 684-4400

SITE PHOTOGRAPHS 43 & 44
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 45
View of Metals Based Coating Sample PS-6 (Tan Grafitti Touch Up).



Photograph 46
View of Metals Based Coating Sample PS-7 (White Grafitti Touch Up).

Project No. 4018128	ID:	DATE: 7/26/2018

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SITE PHOTOGRAPHS 45 & 46
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
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Photograph 47
View of Metals Based Coating Sample PS-8 (Blue Bridge Paint).

Photograph 48
View of Metals Based Coating Sample PS-9 (Bridge House Yellow Paint).

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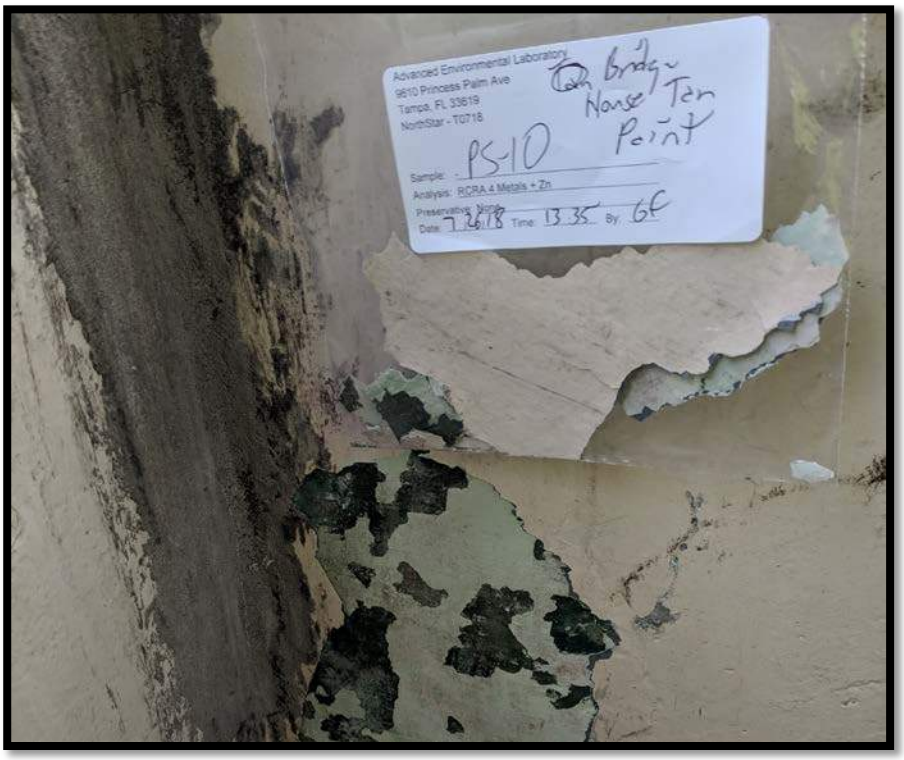
SITE PHOTOGRAPHS 47 & 48
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52



Photograph 49
View of Metals Based Coating Sample PS-10 (Bridge House Tan Paint).

Photograph 50
View of Metals Based Coating Sample PS-11 (Gray Bridge House Ceiling).

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SITE PHOTOGRAPHS 49 & 50
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
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Photograph 51
View of Metals Based Coating Sample PS-12 (Green Bridge House Paint).

Photograph 52
View of Metals Based Coating Sample PS-13 (Red Drawbridge Gear Paint).

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SITE PHOTOGRAPHS 51 & 52
SR 789 OVER LONGBOAT KEY PASS
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Photograph 53
View of Metals Based Coating Sample PS-14 (Orange Underbridge Paint).

Photograph 54
View of Metals Based Coating Sample PS-15 (White I-Beam Paint).

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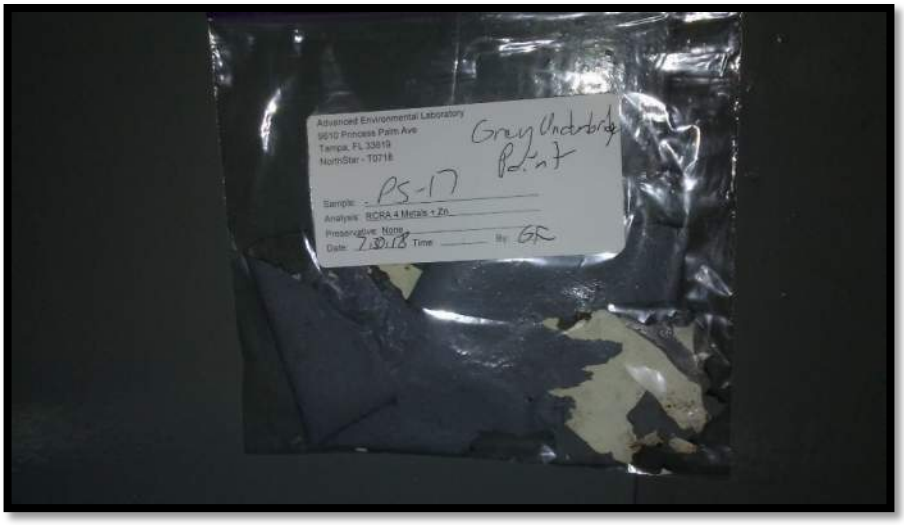
PH:(813) 684-4400

SITE PHOTOGRAPHS 53 & 54
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 55
View of Metals Based Coating Sample PS-16 (Black Piling Paint).



Photograph 56
View of Metals Based Coating Sample PS-17 (Gray Underbridge Paint).

Project No. 4018128	ID:	DATE: 7/26/2018

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SITE PHOTOGRAPHS 55 & 56
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

Photograph 57
View of PCB Warning sign on bridge support of bridge no. 130057.

Project No. 4018128	ID:	DATE: 7/26/2018

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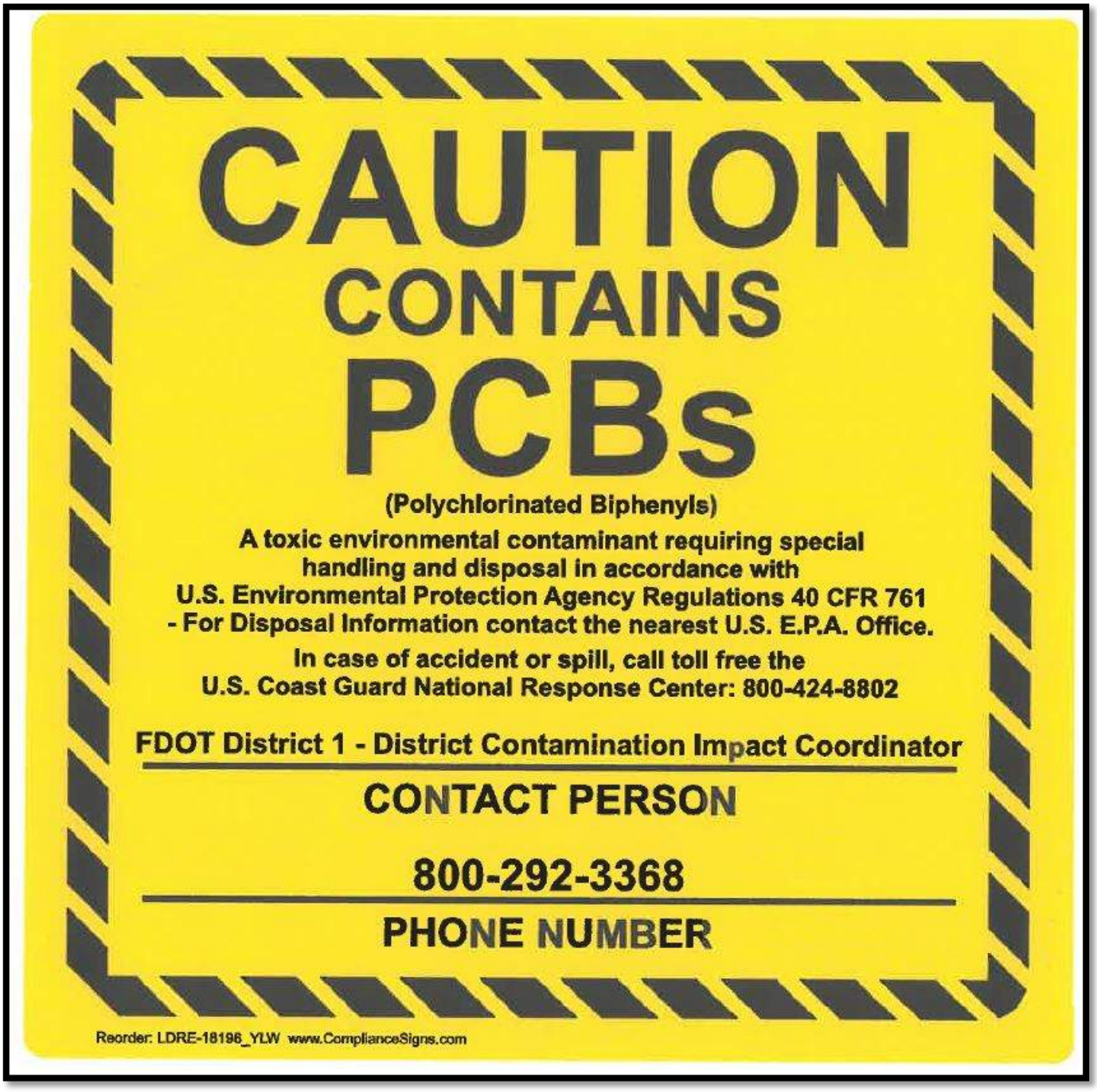
PH:(813) 684-4400

SITE PHOTOGRAPH 57
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52



Photograph 58
Close-up view of PCB Warning sign.

Project No. 4018128	ID:	DATE: 7/26/2018

NORTHSTAR CONTRACTING GROUP, INC.
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SITE PHOTOGRAPH 58
SR 789 OVER LONGBOAT KEY PASS
BRIDGE NO. 130057
LONGBOAT KEY, MANATEE COUNTY, FLORIDA
FDOT FINANCIAL PROJECT NOS. 436415-1-C2-52

APPENDIX C

SUBCONTRACTOR REPORTS

REPORT OF A COMPREHENSIVE NESHAP DEMOLITION ASBESTOS SURVEY
BRIDGE NO. 130057
SR 789 ON LONGBOAT KEY
LONGBOAT KEY, FLORIDA

PREPARED FOR:

NorthStar Contracting Group, Inc.
2760 Falkenburg Road
Riverview, Florida 33578

Attn: Mr. Philip L. Glover, PG, LEP
Senior Geologist I

DMC PROJECT NO. 18-099

AUGUST 02, 2018

REPORT OF A COMPREHENSIVE NESHAP DEMOLITION ASBESTOS SURVEY
BRIDGE NO. 130057
SR 789 ON LONGBOAT KEY
LONGBOAT KEY, FLORIDA

PREPARED FOR:

NorthStar Contracting Group, Inc.
2760 Falkenburg Road
Riverview, Florida 33578

Attn: Mr. Philip L. Glover, PG, LEP
Senior Geologist I

PREPARED BY:

Diversified Management Corporation
P.O. Box 270010
Tampa, Florida 33688

DMC Project No. 18-099
Florida Asbestos Business License No. ZA0000231

DATE:

August 02, 2018

08.02.18

J. Michael Bradshaw, P.E. Date
Florida- Licensed Asbestos Consultant
EA0000066

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APPENDICES

1.0 EXECUTIVE SUMMARY

Diversified Management Corporation (DMC) has completed the comprehensive NESHAP demolition survey for asbestos-containing materials (ACM) of Bridge No. 130057 located at SR 789 on Longboat Key, Florida.

Based on our survey and sampling, asbestos-containing materials were detected, as follows:

- 12" Floor Tile (2 Layers) – Bridge Tender House – Approx. 200 sq. ft. - 2% Chrysotile Asbestos in the Floor Tile and 5% Chrysotile Asbestos in the Black Mastic (Bottom Layer) - Category I NF
- Due to the operational status of the bascule bridge, components associated with the bridge motor and braking systems were not accessed. Materials that are considered suspect are the possible brake pads and engine gaskets. These materials should be assumed present until these areas can be accessed and surveyed prior to replacement or bridge demolition. To ensure the integrity of these bridge components, destructive sampling should not be completed until this time.

Full results appear in the following report.

2.2 Scope of Services

The scope of this work included the following tasks:

- Document review and facility personnel interviews;
- On-site investigative survey and sampling;
- Preparation of a comprehensive demolition asbestos survey report.

3.0 DESCRIPTION OF FACILITIES

Bridge No. 130057 is located at SR 789 on Longboat Key, Manatees County, Florida. The concrete and steel bascule bridge structure consisted of a single-span bridge and concrete bridge tender house. The overall structure was generally observed to be of reinforced concrete and steel and a concrete roadway surfaces. The bridge span also contained concrete barriers, abutments, beams and pilings.

4.0 SAMPLING AND ANALYTICAL PROCEDURE

During this survey, DMC's EPA/State of Florida accredited inspector, Mr. Mike Bradshaw, performed a walk-through of the entire bridge structure in question. This was performed in order to identify and delineate locations of homogeneous friable materials suspected of containing asbestos prior to demolition activities. A homogeneous material is identified as a material that presents similar distinguishing features such as color, texture, etc. and which was installed during the same general time period. Once homogeneous areas were identified, bulk samples were collected by DMC's EPA/State of Florida accredited inspector from these areas in order to confirm the presence or absence of asbestos in suspect materials. A total of thirty-eight (38) bulk samples were collected from ten (10) homogeneous areas.

Bulk samples were sent to Arrowhead Technologies, LLC in Clearwater, Florida for laboratory analysis. This independent laboratory successfully participates in the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos sample analysis. The samples were analyzed using Polarized Light Microscopy (PLM) analysis methodology coupled with dispersion staining solutions to distinguish the unique optical properties of mineral forms. Employing this method of analysis allows asbestos fiber characteristics to colorize, which enables the microscopist to verify the presence or absence, quantity, and type of asbestos in the samples. Any product that contains greater than one (1) percent asbestos is considered to be an asbestos-containing material (ACM) as defined by EPA and OSHA regulations. The PLM results are provided in **Appendix A** to this report. Our laboratory QA/QC procedures and results are provided in **Appendix F.**

5.0 NON-ASBESTOS CONTAINING MATERIALS

Samples of the following materials were analyzed and found to be **non-**asbestos-containing by Arrowhead Technologies (four samples were selected for QA/QC analysis and the results are provided in Appendix F):

***Non-ACM* – Bridge No. 130057** **SR 789 on Longboat Key, Florida**	
Sample No.	**Location and Description**
1,2,3	Concrete – Bridge Barriers – Approx. 10,500 sq. ft.
4,5,6	Concrete – Bridge Sidewalk – Approx. 13,600 sq. ft.
7,8,9	Concrete – Bridge Roadway Surface – Approx. 85,000 sq. ft.
10,11,12	Reflector Mastic – Bridge Roadway Surface – Approx. 100 sq. ft.
13,14,15	Yellow Lane Paint – Bridge Roadway Surface – Approx. 1,700 linear ft.
16,17,18	White Lane Paint – Bridge Roadway Surface – Approx. 3,000 linear ft.
19,20,21	Expansion Joint – Roadway Surface – Approx. 1,800 linear ft.
25,26,27	Concrete Walls & Roof – Bridge Tender House – Approx. 700 sq. ft.
28-32	Concrete – Abutments, Beams & Pilings – Approx. 2,000 sq. ft.
33,34,35	Rip-Rap Concrete – Embankments – Approx. 2,500 sq. ft.
36,37,38	Concrete – Abutments, Beams & Pilings – Approx. 2,000 sq. ft.

6.0 ASBESTOS-CONTAINING MATERIALS

Samples of the following materials were analyzed and found to be asbestos-containing by Arrowhead Technologies:

ACM **– Bridge No. 130057** **SR 789 on Longboat Key, Florida**	
Sample No.	**Location and Description, Quantity, Asb. %, Friability**
22,23,24	12" Floor Tile (2 Layers) – Bridge Tender House – Approx. 200 sq. ft. - 2% Chrysotile Asbestos in the Floor Tile and 5% Chrysotile Asbestos in the Black Mastic (Bottom Layer) Category I NF
Not Sampled	Due to the operational status of the bascule bridge, components associated with the bridge motor and braking systems were not accessed. Materials that are considered suspect are the possible brake pads and engine gaskets. These materials should be assumed present until these areas can be accessed and surveyed prior to replacement or bridge demolition. To ensure the integrity of these bridge components, destructive sampling should not be completed until this time.

F- Friable C- Chrysotile Asbestos NF- Non-Friable

*****Note: Quantities are not provided; measurements are typically approximations based on observation done while collecting bulk samples, and may be limited based on site access and destructive sampling restrictions. It is highly recommended that field verification of quantities be performed prior to any abatement, demolition or renovation estimates & activities**

7.0 CONCLUSIONS AND RECOMMENDATIONS

1. Maintain a copy of this report on site during all renovation and demolition activities.

2. Disturbance of the ACM should be avoided at all times. Only personnel trained in accordance with EPA, OSHA, and State of Florida guidelines should handle the identified or assumed ACM. ACM should not be drilled, sanded, sawed, or otherwise disturbed in a manner that will create an airborne fiber release.

3. A Florida-licensed asbestos contractor should be retained to remove the identified asbestos-containing materials (ACM) prior to renovation and demolition activities **if disturbance is anticipated** and a Florida Licensed Asbestos Consultant should be retained to conduct project and air monitoring.

4. A ten (10)-day notification should be submitted prior to asbestos abatement. (This requirement might be waived for non-friable ACMs). A 10-day notification of demolition is also required. (A demolition is defined by regulatory standards as any building activity that involves the removal or alteration of load-bearing structures). In accordance with federal regulations, the notice must be sent to:

DEP Southwest District

13051 N. Telecom Parkway
Temple Terrace, Florida 33637-0926

Asbestos Compliance Contact:

Mr. Max Grondahl

PH: 813-470-5700 / E: max.grondahl@dep.state.fl.us

Ms. Danielle Henry

E: danielle.d.henry@dep.state.fl.us

APPENDIX A

PLM LABORATORY RESULTS

ARROWHEAD TECHNOLOGIES, LLC
3151 San Bernadino St.
Clearwater, Florida 33759
813-679-0720 / mhall005@tampabay.rr.com

PLM REPORT SUMMARY

NVLAP Lab Code 200703-0

Client :	DMC	Lab Set No. :	005978
Project :	SR 789 over Longboat Key, Fl	AT Job No. :	18-5978
Client Project No.:	18-099	Report Date :	8/1/2018
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	7/26/2018
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600/R-93/116 / EPA Method 600/M4-82-020		

On 7/27/2018, thirty-eight (38) bulk material samples were submitted by Mike Bradshaw for asbestos analysis by PLM/DS.
Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
005978-001	Concrete HA1-1	None Detected-Grey Concrete
005978-002	Concrete HA1-2	None Detected-Grey Concrete
005978-003	Concrete HA1-3	None Detected-Grey Concrete
005978-004	Concrete HA2-4	None Detected-Grey Concrete
005978-005	Concrete HA2-5	None Detected-Grey Concrete
005978-006	Concrete HA2-6	None Detected-Grey Concrete
005978-007	Concrete HA3-7	None Detected-Grey Concrete
005978-008	Concrete HA3-8	None Detected-Grey Concrete
005978-009	Concrete HA3-9	None Detected-Grey Concrete
005978-010	Reflector Mastic HA4-10	None Detected-Black Mastic
005978-011	Reflector Mastic HA4-11	None Detected-Black Mastic
005978-012	Reflector Mastic HA4-12	None Detected-Black Mastic

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested.

ARROWHEAD TECHNOLOGIES, LLC
3151 San Bernadino St.
Clearwater, Florida 33759
813-679-0720 / mhall005@tampabay.rr.com

PLM REPORT SUMMARY

NVLAP Lab Code 200703-0

Client :	DMC	Lab Set No. :	005978
Project :	SR 789 over Longboat Key, Fl	AT Job No. :	18-5978
Client Project No.:	18-099	Report Date :	8/1/2018
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	7/26/2018
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600/R-93/116 / EPA Method 600/M4-82-020		

On 7/27/2018, thirty-eight (38) bulk material samples were submitted by Mike Bradshaw for asbestos analysis by PLM/DS.
Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
005978-013	Yellow Lane Paint HA5-13	None Detected-Yellow Reflective Paint
005978-014	Yellow Lane Paint HA5-14	None Detected-Yellow Reflective Paint
005978-015	Yellow Lane Paint HA5-15	None Detected-Yellow Reflective Paint
005978-016	White Lane Paint HA6-16	None Detected-White Reflective Paint
005978-017	White Lane Paint HA6-17	None Detected-White Reflective Paint
005978-018	White Lane Paint HA6-18	None Detected-White Reflective Paint
005978-019	Expansion Joint HA7-19	None Detected-Gray Expansion Joint
005978-020	Expansion Joint HA7-20	None Detected-Gray Expansion Joint
005978-021	Expansion Joint HA7-21	None Detected-Gray Expansion Joint
005978-022	12" Floor Tile-2 Layers HA8-22	None Detected-Tan/Gray Floor Tile None Detected-Clear Adhesive 2% Chrysotile-Floor Tile 5% Chrysotile-Black Mastic

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested.

ARROWHEAD TECHNOLOGIES, LLC
3151 San Bernadino St.
Clearwater, Florida 33759
813-679-0720 / mhall005@tampabay.rr.com

PLM REPORT SUMMARY

NVLAP Lab Code 200703-0

Client :	DMC	Lab Set No. :	005978
Project :	SR 789 over Longboat Key, Fl	AT Job No. :	18-5978
Client Project No.:	18-099	Report Date :	8/1/2018
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	7/26/2018
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600/R-93/116 / EPA Method 600/M4-82-020		

On 7/27/2018, thirty-eight (38) bulk material samples were submitted by Mike Bradshaw for asbestos analysis by PLM/DS.
Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
005978-023	12" Floor Tile-2 Layers HA8-23	None Detected-Tan/Gray Floor Tile None Detected-Clear Adhesive 2% Chrysotile-Floor Tile 5% Chrysotile-Black Mastic
005978-024	12" Floor Tile-2 Layers HA8-24	None Detected-Tan/Gray Floor Tile None Detected-Clear Adhesive 2% Chrysotile-Floor Tile 5% Chrysotile-Black Mastic
005978-025	Concrete Walls & Roof HA9-25	None Detected-Grey Concrete
005978-026	Concrete Walls & Roof HA9-26	None Detected-Grey Concrete
005978-027	Concrete Walls & Roof HA9-27	None Detected-Grey Concrete
005978-028	Concrete HA10-28	None Detected-Grey Concrete
005978-029	Concrete HA10-29	None Detected-Grey Concrete
005978-030	Concrete HA10-30	None Detected-Grey Concrete
005978-031	Concrete HA10-31	None Detected-Grey Concrete

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested.

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PLM REPORT SUMMARY

NVLAP Lab Code 200703-0

Client :	DMC	Lab Set No. :	005978
Project :	SR 789 over Longboat Key, Fl	AT Job No. :	18-5978
Client Project No.:	18-099	Report Date :	8/1/2018
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	7/26/2018
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600/R-93/116 / EPA Method 600/M4-82-020		

On 7/27/2018, thirty-eight (38) bulk material samples were submitted by Mike Bradshaw for asbestos analysis by PLM/DS.
Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
005978-032	Concrete HA10-32	None Detected-Grey Concrete
005978-033	Rip-Rap Concrete HA11-33	None Detected-Gray Rip Rap Material
005978-034	Rip-Rap Concrete HA11-34	None Detected-Gray Rip Rap Material
005978-035	Rip-Rap Concrete HA11-35	None Detected-Gray Rip Rap Material
005978-036	Concrete HA12-36	None Detected-Grey Concrete
005978-037	Concrete HA12-37	None Detected-Grey Concrete
005978-038	Concrete HA12-38	None Detected-Grey Concrete

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested.

ARROWHEAD TECHNOLOGIES, LLC
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Clearwater, Florida 33759
813-679-0720 / mhall005@tampabay.rr.com

PLM REPORT SUMMARY

NVLAP Lab Code 200703-0

Client :	DMC	Lab Set No. :	005978
Project :	SR 789 over Longboat Key, Fl	AT Job No. :	18-5978
Client Project No.:	18-099	Report Date :	8/1/2018
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	7/26/2018
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600/R-93/116 / EPA Method 600/M4-82-020		

SCOPE OF THIS REPORT

These samples were obtained as a part of a building survey; this report is only intended to be used as a part of the survey report issued by the surveyor. This report explains the laboratory analysis and results. The surveyor's report explains the sampling protocol used, when the samples were obtained, the location(s) of the samples, where the materials were observed in the building, quantities of materials observed, condition of the materials and the extent of his/her survey. Sample locations and material descriptions are given by the surveyor on the chain of custody but included here (possibly abbreviated) only as a convenience for the reader.

STATEMENT OF LABORATORY ACCREDITATION

The samples were analyzed in general accordance with the procedures outlined in the Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116, and the Interim Method for the Determination of Asbestos in Bulk Insulation Samples, EPA 600/M4-82-020. The results of each bulk sample relate only to the material tested and the results shall not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Floor tile and other resinously bound materials, when analyzed by the EPA method, may yield false negative results because of limitations in separating closely bound fibers and in detecting fibers of small length and diameter. When a definitive result is required, Arrowhead recommends utilizing alternative methods of identification, including Transmission Electron Microscopy.

Specific questions concerning bulk sample results shall be directed to the Laboratory Director.

Analyst : Monte Hall, P.G.

Laboratory Director : Monte Hall, P.G.
Florida Registration No. 1658

Approved Signatory : Monte Hall

Lab 5978

DMC

P.O. Box 270010
Tampa, FL 33688
813.265.0181
ZA0000-231

CLIENT: Northstar
PROJECT: Bridge No. 130057
LOCATION: SR 789 over Longboat Key, FL

DATE: 7.26.18
PROJECT #: 18-099
PAGE: 1 OF 2
SURVEYOR: J.M. Bradshaw

SAMPLE NO.	CODE	HOMO. AREA	GENERAL LOCATION	MATERIAL SAMPLED	QUANTITY (SQ. FT.)	FRIABLE (Y/N)	CONDITION (SD/D/G)
1, 2, 3	C	1	BARRIERS	CONCRETE	10,500	N(1)	G
4, 5, 6	C	2	SIDEWALK	CONCRETE	13,600	N(1)	G
7, 8, 9	C	3	ROADWAY	CONCRETE	85,000	N(1)	G
10, 11, 12	RM	4	ROADWAY	REFLECTOR MASTIC	100	N	D
13, 14, 15	YLP	5	ROADWAY	YELLOW LANE PAINT	1,700	N(1)	D

CHAIN OF CUSTODY

SAMPLES COLLECTED BY:
Name: MIKE BRADSHAW
Signature:
SAMPLES RECEIVED BY:
Name: Monte Hall
Signature:

DATE:	ANALYSIS REQUESTED:
7.26.18	PLM
DATE:	DMC CONTACT:
7-27-18	MB
DATE:	TURN-AROUND-TIME:
	STANDARD

DMC

P.O. Box 270010
Tampa, FL 33688
813.265.0181
ZA0000-231

CLIENT: Northstar
PROJECT: Bridge No. 130057
LOCATION: SR 789 over Longboat Key, FL

DATE: 7.26.18
PROJECT #: 18-099
PAGE: 2 OF 3
SURVEYOR: J.M. Bradshaw

SAMPLE NO.	CODE	HOMO. AREA	GENERAL LOCATION	MATERIAL SAMPLED	QUANTITY (SQ. FT.)	FRIABLE (Y/N)	CONDITION (SD/D/G)
16,17,18	WLP	6	ROADWAY	WHITE LANE PAINT	3,400	N(11)	G
19,20,21	EJ	7	ROADWAY	EXPANSION JOINT	1,800LF	N	G
22,23,24	FT	8	BRIDGE TENDER HOUSE	12" FLOOR TILE - 2 LAYERS	200	N	D
25,26,27	C	9	" "	CONCRETE WALLS & ROOF	700	N(11)	G

CHAIN OF CUSTODY

SAMPLES COLLECTED BY:	
Name:	
Signature:	
SAMPLES RECEIVED BY:	
Name:	Monte Hall
Signature:	

DATE:	ANALYSIS REQUESTED:
7.26.18	PLM
DATE:	DMC CONTACT:
7-27-18	MB
DATE:	TURN-AROUND-TIME:
	STANDARD

DMC

P.O. Box 270010
Tampa, FL 33688
813.265.0181
ZA0000-231

CLIENT: Northstar
PROJECT: Bridge No. 130057
LOCATION: SR 789 over Longboat Key, FL

DATE: 7.26.18
PROJECT #: 18-099
PAGE: 3 OF 3
SURVEYOR: J.M. Bradshaw

SAMPLE NO.	CODE	HOMO. AREA	GENERAL LOCATION	MATERIAL SAMPLED	QUANTITY (SQ. FT.)	FRIABLE (Y/N)	CONDITION (SD/D/G)
~~1~~	C	10	ABUTMENTS	CONCRETE	2,000	N(L)	G
28-32			BEAMS & PILINGS				
4	RR	11	EMBANKMENTS	R.P - RAP	2,500	N(L)	G
33,34,35				CONCRETE			
36,37,38	C	10	ABUTMENTS BEAMS	CONCRETE	2000	N(L)	G
			& PILINGS				

CHAIN OF CUSTODY

SAMPLES COLLECTED BY:
Name:
Signature:
SAMPLES RECEIVED BY:
Name: Monte Hall
Signature:

DATE:	ANALYSIS REQUESTED:
7.26.18	PLM
DATE:	DMC CONTACT:
7-27-18	MB
DATE:	TURN-AROUND-TIME:
	STANDARD

APPENDIX B

LICENSES & CERTIFICATIONS

RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

ASBESTOS LICENSING UNIT

THE ASBESTOS BUSINESS ORGANIZATION HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 469, FLORIDA STATUTES

DIVERSIFIED MANAGEMENT & CONSTRUCTION INC

J. MICHAEL BRADSHAW
PO BOX 270010
PO BOX 270010
TAMPA FL 33688

LICENSE NUMBER: ZA0000231

EXPIRATION DATE: NOVEMBER 30, 2019

Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
ASBESTOS LICENSING UNIT

LICENSE NUMBER	
EA0000066	

The ASBESTOS CONSULTANT - ENGINEER
Named below IS LICENSED
Under the provisions of Chapter 469 FS.
Expiration date: NOV 30, 2018

BRADSHAW, JOHN MICHAEL
554 79TH TERRACE NORTH
UNIT #311
ST. PETERSBURG FL 33702

ISSUED: 11/08/2016

DISPLAY AS REQUIRED BY LAW

SEQ # L1611080003190

Florida Approval FL49-0001008

Retra

Training Services

J. Michael Bradshaw

554 79th Terrace N., Apt.311, St. Petersburg, FL 33702

Has successfully completed the requisite training for
Asbestos Accreditation as required by TSCA Title II

ASBESTOS BUILDING INSPECTOR REFRESHER FL2847

Course Date: *February 1, 2018*

Exam Date: *February 1, 2018*

Expiration Date: *February 1, 2019*

Course Location: Tampa, Florida

Certificate Number: *RTS020118IR-01*

Instructor(s): *J.M. Bradshaw / Johnny Mercado*

Course Administrator

Retra Training Services∞ Post Office Box 270010 ∞ Tampa, FL 33688 ∞ 1-888-839-3315/727-938-5459 ∞ www.retratraining.com

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200703-0

Arrowhead Technologies, L.L.C.

Clearwater, FL

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2018-01-01 through 2018-12-31

Effective Dates

For the National Voluntary Laboratory Accreditation Program

APPENDIX C

FIGURES

APPENDIX D

PHOTOGRAPHS

Photo No. 1: View of Draw-Bridge Motor Area Location of Assumed Asbestos-Containing Braking Equipment

Photo No. 2: Non Asbestos-Containing Concrete Barrier and Sidewalk

Photo No. 3: Non Asbestos-Containing Yellow Lane Paint

Photo No. 4: Non Asbestos-Containing Concrete Roof (Bridge Tender House)

Photo No. 5: Non Asbestos-Containing Concrete Roadway Deck and White Lane Paint

Photo No. 6: Non-Asbestos Containing Expansion Joint

Photo No. 7: Non Asbestos-Containing Reflector Mastic

Photo No. 8: Non Asbestos-Containing Concrete Abutment, Beams, and Pilings

Photo No. 9: Non Asbestos-Containing Concrete Rip-Rap on Embankment

Photo No. 10: Non Asbestos-Containing Bridge Pilings

Photo No. 11: Asbestos-Containing Floor Tile and Mastic (Bottom Layer) in Bridge Tender House

APPENDIX E

LIMITATIONS

LIMITATIONS

The sampling and laboratory protocols used in this survey are in accordance with generally accepted industry standards in the State of Florida. These methods are inherently limited in nature, but due to the random collection of samples, they provide a high probability of determining asbestos content. Any condition discovered which deviates substantially from the data contained in this report should be reported to DMC for review.

Our findings are based on the data obtained during the survey, and interpretation of that data based on our professional experience. This report is not meant to confer that all potential asbestos-containing materials that may be present in the building have been identified. Inaccessible areas may include, but are not limited to: pipe chases, underground areas, fire-rated doors, etc. Without extensive destructive testing, complete documentation of all ACM cannot be provided.

It is recommended that if the initial survey was performed when the building was occupied, a follow-up visit to allow for more destructive sampling be conducted once the building is vacant but prior to renovation or demolition activities. If, during renovation or demolition activities, additional suspect building materials are observed that are not identified in this survey, they should be assumed positive for asbestos until further sampling and subsequent laboratory analysis proves otherwise.

The information contained in this report was prepared based upon specific parameters and regulations in force as of the date of the report. This report and its findings were prepared on behalf of and for the exclusive use of DMC and its Client. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party or be used or relied upon by any other party without written consent from DMC or its designee(s).

APPENDIX F

QA/QC PROCEDURES & RESULTS

QUALITY ASSURANCE PROCEDURES

Data Review

The Laboratory Manager shall review all analytical results for accuracy and completeness prior to releasing them to ARROWHEAD TECHNOLOGIES, LLC project personnel or to the client. The Laboratory Manager shall also review QA re-analyses of samples for each specific project. If no discrepancies are noted, the Laboratory Manager shall sign the Statement of Accreditation (Appendix 5) which accompanies the sample results.

QA Re-analysis

The QA Manager will select 10% of the samples analyzed by each analyst. Special attention should be paid to borderline samples of floor tile, roofing, ceiling and plaster material and any other material that has a high potential of being asbestos-containing. All re-analyses will be given to the QA Manager to be checked for discrepancies as defined in the "Acceptability Standards" section of this document. If any discrepancies are noted, they will be resolved before results are sent out.

Intra-Laboratory Proficiency Testing

All laboratory analysts will participate in proficiency testing exercises using NIST-standard reference material. This test data and the data from the current NIST proficiency rounds will be used to calculate statistical controls for each analyst and will be reported in the monthly laboratory summary.

Inter-laboratory "Round-Robin"

The laboratory will attempt to participate in a "round-robin" type sample exchange program with other NVLAP laboratories. This program when implemented will consist of the periodic exchange of reference

samples which will be analyzed by all analysts from each laboratory. Sample results will be collated by the originating laboratory and a report will be produced by the QA Manager and sent to each participating laboratory. For this laboratory, discrepancies will be determined in accordance with the "Acceptability Standards" section of this document. Comparisons will be made of asbestos type and percent for each sample including refractive indices.

NIST-NVLAP

The laboratory will participate in the NIST-NVLAP Proficiency Program. Proficiency testing samples will be analyzed individually by each analyst without consultation with any other analyst. Results will be turned into the QA Manager for collation. The QA Manager will select the results to be sent in for each round. Reported results will be checked by a second person before mailing or reporting to determine if any clerical errors were made while transposing the data to the report form. When the reference results come in from NIST, each analyst's results will be evaluated in accordance with the standards set forth in the NIST report.

Storage and Handling of Reference Material

Reference Material will be clearly labeled and stored in the laboratory storage area and under the supervision of the QA Manager and Laboratory Deputy. All Reference Material will be opened only under a bio-hood and only after the hood and all tools have been cleaned. Containers should be closed immediately after reference samples have been extracted.

If a sample is to be analyzed by another analyst, a representative sub-sample should be prepared in a separate clear container. The sub-sample should be clearly labeled and should not be placed back in the original reference container.

If reference materials are to be transported, they will be double-sealed and protected from crushing. Containers for transport should be clearly marked and have a chain-of-custody form attached to the container.

CONTAMINATION CONTROL

Refractive Index Liquids

Analysts will check each of the three main RI Liquids (1.55, 1.605 and 1.680) daily for contamination. This contamination check will consist of preparing 2 mounts of salt standards in the liquid to be checked. These mounts will then be carefully scanned under the PLM at 100x. If contamination is suspected the analyst should start by cleaning his tools and prep area. Then prepare a fresh set of salt and oil slides to re-check for cross contamination. A reiterative process must be followed to isolate and eliminate the source of the cross-contamination before proceeding with any analytical work. The analyst will initial the Contamination and Microscope Alignment Check form (Attachment 13) daily after the check is performed.

QC SAMPLE **005978-003**

Original Analyst : **Monte Hall, P.G.** Date : **7/31/201**

Sample Passed QC
2nd Analysis - OK

Sample Description : **Concrete HA1-3**

Layer 1 Grey Concrete

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	**Hard**	**YES**	**ND**	**ND**	

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate	**60**		**Non-fibrous**						
Cement Binders	**40**		**Non-fibrous**				**Hi**		

Prep/treatment : **mechanical separation**

Asbestos Content : **None Detected**

Comments :

Analyst : **Monte Hall, P.G.**
Date : **8/ 2/2018**

Lab Set# :**005978** Lab Sample No. : **005978-003**

QC SAMPLE **005978-012**

Original Analyst : **Monte Hall, P.G.** Date : **7/31/201**

Sample Passed QC
2nd Analysis - OK

Sample Description : **Reflector Mastic HA4-12**

Layer 1 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	**Asphaltic**	**YES**	**ND**	**ND**	

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Bitumen & Binder	**100**			**Blk /None**			**None**		

Prep/treatment : **heat / melt**

Asbestos Content : **None Detected**

Comments :

Analyst : **Monte Hall, P.G.**
Date : **8/ 2/2018**

Lab Set# :**005978** Lab Sample No. : **005978-012**

QC SAMPLE **005978-023**

Original Analyst : **Monte Hall, P.G.** Date : **7/31/201**

Sample Passed QC
2nd Analysis - OK

Sample Description : **12" Floor Tile-2 Layers HA8-23**

Layer 1 Tan/Gray Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan/Gray	**Hard**	**YES**	**ND**	**ND**	

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Calcite / Vinyl Binders	**100**		**Non-fibrous**				**high**		

Prep/treatment : **heat / melt**

Asbestos Content : **None Detected**

Layer 2 Clear Adhesive

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Clear	**Rubbery**	**YES**	**ND**	**ND**	

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Glue Binders	**100**		**Non-fibrous**						

Prep/treatment : **heat / melt**

Asbestos Content : **None Detected**

Layer 3 Floor Tile

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	**Hard**	**YES**	**3**	**3**	

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	**3**	**1**	**silky / wavy**	**None**	**1.556**	**1.548**	**low**	**0**	**+**
Calcite / Vinyl Binders	**97**		**Non-fibrous**				**high**		

Prep/treatment : **heat / melt**

Asbestos Content : **3% Chrysotile**

Layer 4 Black Mastic

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	**Asphaltic**	**YES**	**5**	**5**	

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Chrysotile	**5**		**silky / wavy**	**None**	**1.556**	**1.548**	**low**	**0**	**+**
Bitumen & Binder	**95**			**Blk /None**			**None**		
Analysis Temp. 25C									

Prep/treatment : **heat / melt**

Asbestos Content : **5% Chrysotile**

Comments :

Analyst : **Monte Hall, P.G.**
Date : **8/ 2/2018**

Lab Set# :**005978** Lab Sample No. : **005978-02**

QC SAMPLE **005978-033**

Original Analyst : **Monte Hall, P.G.** Date : **7/31/201**

Sample Passed QC
2nd Analysis - OK

Sample Description : **Rip-Rap Concrete HA11-33**

Layer 1 Gray Rip Rap Material

Stereoscopic Exam

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	**Granular**	**NO**	**ND**	**ND**	

PLM Examination

Components	%	+/-	Morphology	Color / Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Quartz Sand	**70**		**Rounded**	**Clear**	**1550**	**1.550**	**L**	**P**	**+**
Cement Binders	**30**		**Non-fibrous**				**Hi**		

Prep/treatment : **mechanical separation**

Asbestos Content : **None Detected**

Comments :

Analyst : **Monte Hall, P.G.**
Date : **8/ 2/2018**

Lab Set# :**005978**

Lab Sample No. : **005978-033**

Advanced Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc
9610 Princess Palm Ave Tampa, FL 33619
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (813)630-9616
Fax: (813)630-4327

August 17, 2018

Phil Glover
2760 S. Falkenburg Rd
Riverview, FL 33578

RE: Workorder: T1812718 SR 789 Over Longboat Key Pass

Dear Phil Glover:

Enclosed are the analytical results for sample(s) received by the laboratory between Tuesday, July 31, 2018 and Tuesday, August 14, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela Harlan

Angela Harlan - Client Services Manager
AHarlan@AELLab.com

Enclosures

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc
9610 Princess Palm Ave Tampa, FL 33619
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (813)630-9616
Fax: (813)630-4327

SAMPLE SUMMARY

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID	Sample ID	Matrix	Date Collected	Date Received
T1812718001	PS-1 Yellow Lane Paint	Soil	7/26/2018 10:22	7/31/2018 08:22
T1812718002	PS-2 White Lane Paint	Soil	7/26/2018 11:15	7/31/2018 08:22
T1812718003	PS-3 Metal Guardrail	Soil	7/26/2018 12:20	7/31/2018 08:22
T1812718004	PS-4 Guardrail Post	Soil	7/26/2018 12:27	7/31/2018 08:22
T1812718005	PS-5 Gray Grafitti Touch up	Soil	7/26/2018 12:45	7/31/2018 08:22
T1812718006	PS-6 Tan Grafitti Touch up	Soil	7/26/2018 12:56	7/31/2018 08:22
T1812718007	PS-7 White Grafitti Touch up	Soil	7/26/2018 13:00	7/31/2018 08:22
T1812718008	PS-8 Blue Bridge Paint	Soil	7/26/2018 13:20	7/31/2018 08:22
T1812718009	PS-9 Bridge House Yellow Paint	Soil	7/26/2018 13:30	7/31/2018 08:22
T1812718010	PS-10 Bridge House Tan Paint	Soil	7/26/2018 13:35	7/31/2018 08:22
T1812718011	PS-11 GrayBridge House Ceiling	Soil	7/26/2018 13:40	7/31/2018 08:22
T1812718012	PS-12 Green Bridge House Paint	Soil	7/26/2018 13:50	7/31/2018 08:22
T1812718013	PS-13 Red Drawbridge GearPaint	Soil	7/26/2018 14:05	7/31/2018 08:22
T1812718014	PS-14 Orange Underbridge Paint	Soil	7/26/2018 14:10	7/31/2018 08:22
T1812718015	PS-15 White I-Beam Paint	Soil	7/30/2018 13:30	7/31/2018 08:22
T1812718016	PS-16 Black Piling Paint	Soil	7/30/2018 13:45	7/31/2018 08:22
T1812718017	PS-17 Gray Underbridge Paint	Soil	7/30/2018 14:10	7/31/2018 08:22
T1812718018	Comp 1 PS-8 through PS-14	Soil	7/31/2018 08:00	7/31/2018 08:22
T1812718019	Comp 2 PS-1 to 7/ PS-15 to 17	Soil	7/31/2018 08:00	7/31/2018 08:22
T1812718020	PS-12/PS-9 Composite	Soil	8/14/2018 14:56	8/14/2018 14:56

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718001** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **PS-1 Yellow Lane Paint** Date Collected: 07/26/18 10:22

Results for sample T1812718001 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Soils	Preparation Method: SW-846 3050B Analytical Method: SW-846 6010							
Arsenic	**3.0**	**U**	**mg/Kg**	**10**	14	3.0	8/1/2018 00:04	T
Cadmium	**0.36**	**U**	**mg/Kg**	**10**	1.3	0.36	8/1/2018 00:04	T
Chromium	**5.7**	**U**	**mg/Kg**	**10**	11	5.7	8/1/2018 00:04	T
Lead	**4.2**	**I**	**mg/Kg**	**10**	14	3.0	8/1/2018 00:04	T
Zinc	**140**		**mg/Kg**	**10**	29	14	8/1/2018 00:04	T
METALS								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	**0.0010**	**U**	**%**	**1**	0.0010	0.0010	8/2/2018 15:20	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718002** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **PS-2 White Lane Paint** Date Collected: 07/26/18 11:15

Results for sample T1812718002 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Soils	Preparation Method: SW-846 3050B Analytical Method: SW-846 6010							
Arsenic	**4.1**	**U**	**mg/Kg**	**10**	19	4.1	8/1/2018 00:23	T
Cadmium	**0.48**	**U**	**mg/Kg**	**10**	1.7	0.48	8/1/2018 00:23	T
Chromium	**7.7**	**U**	**mg/Kg**	**10**	15	7.7	8/1/2018 00:23	T
Lead	**110**		**mg/Kg**	**10**	19	4.0	8/1/2018 00:23	T
Zinc	**1000**		**mg/Kg**	**10**	38	19	8/1/2018 00:23	T
METALS								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	**0.0010**	**U**	**%**	**1**	0.0010	0.0010	8/2/2018 15:20	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718003** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **PS-3 Metal Guardrail** Date Collected: 07/26/18 12:20

Results for sample T1812718003 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Soils	Preparation Method: SW-846 3050B Analytical Method: SW-846 6010							
Arsenic	**5.1**	**U**	**mg/Kg**	**10**	24	5.1	8/1/2018 00:26	T
Cadmium	**51**		**mg/Kg**	**10**	2.1	0.60	8/1/2018 00:26	T
Chromium	**480**		**mg/Kg**	**10**	19	9.5	8/1/2018 00:26	T
Lead	**350**		**mg/Kg**	**10**	24	5.0	8/1/2018 00:26	T
Zinc	**65000**		**mg/Kg**	**100**	480	240	8/1/2018 16:25	T
METALS								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	**0.0010**	**U**	**%**	**1**	0.0010	0.0010	8/2/2018 15:20	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718004** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **PS-4 Guardrail Post** Date Collected: 07/26/18 12:27

Results for sample T1812718004 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Soils	Preparation Method: SW-846 3050B Analytical Method: SW-846 6010							
Arsenic	**73**	**I**	**mg/Kg**	**100**	110	24	8/6/2018 22:45	T
Cadmium	**22**		**mg/Kg**	**100**	10	2.8	8/6/2018 22:45	T
Chromium	**810**		**mg/Kg**	**100**	89	44	8/6/2018 22:45	T
Lead	**240**		**mg/Kg**	**100**	110	23	8/6/2018 22:45	T
Zinc	**38000**		**mg/Kg**	**100**	220	110	8/6/2018 22:45	T
METALS								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	**0.0010**	**U**	**%**	**1**	0.0010	0.0010	8/2/2018 15:20	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718005** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **PS-5 Gray Grafitti Touch up** Date Collected: 07/26/18 12:45

Results for sample T1812718005 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Soils	Preparation Method: SW-846 3050B Analytical Method: SW-846 6010							
Arsenic	**0.52**	**I**	**mg/Kg**	**1**	1.7	0.36	8/6/2018 22:50	T
Cadmium	**0.042**	**U**	**mg/Kg**	**1**	0.15	0.042	8/6/2018 22:50	T
Chromium	**2.0**		**mg/Kg**	**1**	1.3	0.67	8/6/2018 22:50	T
Lead	**3.2**		**mg/Kg**	**1**	1.7	0.35	8/6/2018 22:50	T
Zinc	**26**		**mg/Kg**	**1**	3.3	1.7	8/6/2018 22:50	T
METALS								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	**0.0010**	**U**	**%**	**1**	0.0010	0.0010	8/2/2018 15:20	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718006** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **PS-6 Tan Grafitti Touch up** Date Collected: 07/26/18 12:56

Results for sample T1812718006 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Soils	Preparation Method: SW-846 3050B Analytical Method: SW-846 6010							
Arsenic	**1.4**	**I**	**mg/Kg**	**1**	2.1	0.44	8/6/2018 22:54	T
Cadmium	**0.052**	**U**	**mg/Kg**	**1**	0.19	0.052	8/6/2018 22:54	T
Chromium	**5.6**		**mg/Kg**	**1**	1.7	0.83	8/6/2018 22:54	T
Lead	**20**		**mg/Kg**	**1**	2.1	0.44	8/6/2018 22:54	T
Zinc	**34**		**mg/Kg**	**1**	4.2	2.1	8/6/2018 22:54	T
METALS								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	**0.0010**	**U**	**%**	**1**	0.0010	0.0010	8/2/2018 15:20	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718007** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **PS-7 White Grafitti Touch up** Date Collected: 07/26/18 13:00

Results for sample T1812718007 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Soils	Preparation Method: SW-846 3050B Analytical Method: SW-846 6010							
Arsenic	**1.7**		**mg/Kg**	**1**	0.72	0.15	8/6/2018 22:58	T
Cadmium	**0.28**		**mg/Kg**	**1**	0.065	0.018	8/6/2018 22:58	T
Chromium	**20**		**mg/Kg**	**1**	0.58	0.29	8/6/2018 22:58	T
Lead	**34**		**mg/Kg**	**1**	0.72	0.15	8/6/2018 22:58	T
Zinc	**1800**		**mg/Kg**	**10**	14	7.2	8/7/2018 17:11	T
METALS								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	**0.0010**	**U**	**%**	**1**	0.0010	0.0010	8/2/2018 15:20	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718008** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **PS-8 Blue Bridge Paint** Date Collected: 07/26/18 13:20

Results for sample T1812718008 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Soils	Preparation Method: SW-846 3050B Analytical Method: SW-846 6010							
Arsenic	**53**		**mg/Kg**	**10**	7.5	1.6	8/6/2018 23:02	T
Cadmium	**15**		**mg/Kg**	**10**	0.67	0.19	8/6/2018 23:02	T
Chromium	**150**		**mg/Kg**	**10**	6.0	3.0	8/6/2018 23:02	T
Lead	**39**		**mg/Kg**	**10**	7.5	1.6	8/6/2018 23:02	T
Zinc	**3100**		**mg/Kg**	**10**	15	7.5	8/6/2018 23:02	T
METALS								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	**0.0010**	**U**	**%**	**1**	0.0010	0.0010	8/2/2018 15:20	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718009** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **PS-9 Bridge House Yellow Paint** Date Collected: 07/26/18 13:30

Results for sample T1812718009 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Soils	Preparation Method: SW-846 3050B Analytical Method: SW-846 6010							
Arsenic	**3.3**	**U**	**mg/Kg**	**10**	16	3.3	8/6/2018 23:24	T
Cadmium	**11**		**mg/Kg**	**10**	1.4	0.39	8/6/2018 23:24	T
Chromium	**1000**		**mg/Kg**	**10**	12	6.2	8/6/2018 23:24	T
Lead	**7500**		**mg/Kg**	**10**	16	3.3	8/6/2018 23:24	T
Zinc	**15000**		**mg/Kg**	**100**	310	160	8/7/2018 17:19	T
METALS								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	**0.0010**	**U**	**%**	**1**	0.0010	0.0010	8/2/2018 15:20	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718010** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **PS-10 Bridge House Tan Paint** Date Collected: 07/26/18 13:35

Results for sample T1812718010 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Soils	Preparation Method: SW-846 3050B Analytical Method: SW-846 6010							
Arsenic	**0.34**	**U**	**mg/Kg**	**1**	1.6	0.34	8/6/2018 23:29	T
Cadmium	**1.1**		**mg/Kg**	**1**	0.15	0.040	8/6/2018 23:29	T
Chromium	**250**		**mg/Kg**	**1**	1.3	0.65	8/6/2018 23:29	T
Lead	**1800**		**mg/Kg**	**10**	16	3.4	8/7/2018 17:24	T
Zinc	**3900**		**mg/Kg**	**10**	32	16	8/7/2018 17:24	T
METALS								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	**0.0010**	**U**	**%**	**1**	0.0010	0.0010	8/2/2018 15:20	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718011** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **PS-11 GrayBridge House Ceiling** Date Collected: 07/26/18 13:40

Results for sample T1812718011 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Soils	Preparation Method: SW-846 3050B Analytical Method: SW-846 6010							
Arsenic	**0.43**	**U**	**mg/Kg**	**1**	2.0	0.43	8/6/2018 23:33	T
Cadmium	**0.69**		**mg/Kg**	**1**	0.18	0.050	8/6/2018 23:33	T
Chromium	**33**		**mg/Kg**	**1**	1.6	0.80	8/6/2018 23:33	T
Lead	**380**		**mg/Kg**	**1**	2.0	0.42	8/6/2018 23:33	T
Zinc	**9100**		**mg/Kg**	**100**	400	200	8/7/2018 17:28	T
METALS								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	**0.0010**	**U**	**%**	**1**	0.0010	0.0010	8/2/2018 15:20	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718012** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **PS-12 Green Bridge House Paint** Date Collected: 07/26/18 13:50

Results for sample T1812718012 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Soils	Preparation Method: SW-846 3050B Analytical Method: SW-846 6010							
Arsenic	**0.43**	**U**	**mg/Kg**	**1**	2.0	0.43	8/6/2018 23:36	T
Cadmium	**0.80**		**mg/Kg**	**1**	0.18	0.050	8/6/2018 23:36	T
Chromium	**28**		**mg/Kg**	**1**	1.6	0.80	8/6/2018 23:36	T
Lead	**21000**		**mg/Kg**	**100**	200	42	8/9/2018 17:05	T
Zinc	**24000**		**mg/Kg**	**100**	400	200	8/9/2018 17:05	T
METALS								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	**0.0010**	**U**	**%**	**1**	0.0010	0.0010	8/2/2018 15:20	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718013** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **PS-13 Red Drawbridge GearPaint** Date Collected: 07/26/18 14:05

Results for sample T1812718013 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Soils	Preparation Method: SW-846 3050B Analytical Method: SW-846 6010							
Arsenic	**4.5**		**mg/Kg**	**1**	1.6	0.34	8/6/2018 23:41	T
Cadmium	**1.6**		**mg/Kg**	**1**	0.15	0.040	8/6/2018 23:41	T
Chromium	**7.6**		**mg/Kg**	**1**	1.3	0.65	8/6/2018 23:41	T
Lead	**94**		**mg/Kg**	**1**	1.6	0.34	8/6/2018 23:41	T
Zinc	**230000**		**mg/Kg**	**1000**	3200	1600	8/9/2018 17:10	T
METALS								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	**0.0010**	**U**	**%**	**1**	0.0010	0.0010	8/2/2018 15:20	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718014** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **PS-14 Orange Underbridge Paint** Date Collected: 07/26/18 14:10

Results for sample T1812718014 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Soils	Preparation Method: SW-846 3050B Analytical Method: SW-846 6010							
Arsenic	**6.3**	**I**	**mg/Kg**	**10**	16	3.3	8/6/2018 23:45	T
Cadmium	**2.8**		**mg/Kg**	**10**	1.4	0.39	8/6/2018 23:45	T
Chromium	**16**		**mg/Kg**	**10**	12	6.2	8/6/2018 23:45	T
Lead	**790**		**mg/Kg**	**10**	16	3.3	8/6/2018 23:45	T
Zinc	**52000**		**mg/Kg**	**100**	310	160	8/7/2018 17:42	T
METALS								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	**0.0010**	**U**	**%**	**1**	0.0010	0.0010	8/2/2018 15:20	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718015** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **PS-15 White I-Beam Paint** Date Collected: 07/30/18 13:30

Results for sample T1812718015 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Soils	Preparation Method: SW-846 3050B Analytical Method: SW-846 6010							
Arsenic	**0.33**	**U**	**mg/Kg**	**1**	1.6	0.33	8/6/2018 23:49	T
Cadmium	**0.36**		**mg/Kg**	**1**	0.14	0.039	8/6/2018 23:49	T
Chromium	**2.1**		**mg/Kg**	**1**	1.2	0.62	8/6/2018 23:49	T
Lead	**6.5**		**mg/Kg**	**1**	1.6	0.33	8/6/2018 23:49	T
Zinc	**140000**		**mg/Kg**	**1000**	3100	1600	8/9/2018 17:00	T
METALS								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	**0.0010**	**U**	**%**	**1**	0.0010	0.0010	8/2/2018 15:20	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718016** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **PS-16 Black Piling Paint** Date Collected: 07/30/18 13:45

Results for sample T1812718016 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Soils	Preparation Method: SW-846 3050B Analytical Method: SW-846 6010							
Arsenic	**2.4**	**U**	**mg/Kg**	**10**	11	2.4	8/6/2018 23:52	T
Cadmium	**1.2**		**mg/Kg**	**10**	1.0	0.28	8/6/2018 23:52	T
Chromium	**4.5**	**U**	**mg/Kg**	**10**	9.1	4.5	8/6/2018 23:52	T
Lead	**27**		**mg/Kg**	**10**	11	2.4	8/6/2018 23:52	T
Zinc	**72000**		**mg/Kg**	**1000**	2300	1100	8/9/2018 17:00	T
METALS								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	**0.0010**	**U**	**%**	**1**	0.0010	0.0010	8/2/2018 15:20	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718017** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **PS-17 Gray Underbridge Paint** Date Collected: 07/30/18 14:10

Results for sample T1812718017 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Soils	Preparation Method: SW-846 3050B Analytical Method: SW-846 6010							
Arsenic	**0.74**	**I**	**mg/Kg**	**1**	2.0	0.43	8/6/2018 23:56	T
Cadmium	**0.40**		**mg/Kg**	**1**	0.18	0.050	8/6/2018 23:56	T
Chromium	**3.7**		**mg/Kg**	**1**	1.6	0.80	8/6/2018 23:56	T
Lead	**27**		**mg/Kg**	**1**	2.0	0.42	8/6/2018 23:56	T
Zinc	**31000**		**mg/Kg**	**100**	400	200	8/7/2018 18:16	T
METALS								
Analysis Desc: Percent Solids,SM2540G,Soil	Analytical Method: SM 2540G							
Percent Moisture	**0.0010**	**U**	**%**	**1**	0.0010	0.0010	8/2/2018 15:20	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718018** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **Comp 1 PS-8 through PS-14** Date Collected: 07/31/18 08:00

Results for sample T1812718018 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS, TCLP								
Analysis Desc: 1311/6010B Analysis,TCLP	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**0.016**	**U**	**mg/L**	**1**	0.10	0.016	8/3/2018 20:11	T
Cadmium	**0.018**		**mg/L**	**1**	0.0090	0.0024	8/3/2018 20:11	T
Chromium	**0.17**		**mg/L**	**1**	0.020	0.020	8/3/2018 20:11	T
Lead	**4.0**		**mg/L**	**1**	0.10	0.032	8/3/2018 20:11	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718019** Date Received: 07/31/18 08:22 Matrix: Soil

Sample ID: **Comp 2 PS-1 to 7/ PS-15 to 17** Date Collected: 07/31/18 08:00

Results for sample T1812718019 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS, TCLP								
Analysis Desc: 1311/6010B Analysis,TCLP	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**0.016**	**U**	**mg/L**	**1**	0.10	0.016	8/3/2018 20:15	T
Cadmium	**0.012**		**mg/L**	**1**	0.0090	0.0024	8/3/2018 20:15	T
Chromium	**0.020**	**U**	**mg/L**	**1**	0.020	0.020	8/3/2018 20:15	T
Lead	**0.13**		**mg/L**	**1**	0.10	0.032	8/3/2018 20:15	T

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ANALYTICAL RESULTS

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID: **T1812718020** Date Received: 08/14/18 14:56 Matrix: Soil

Sample ID: **PS-12/PS-9 Composite** Date Collected: 08/14/18 14:56

Results for sample T1812718020 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS, TCLP								
Analysis Desc: 1311/6010B Analysis,TCLP	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Lead	**77**		**mg/L**	**10**	1.0	0.32	8/16/2018 21:43	T

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ANALYTICAL RESULTS QUALIFIERS

Workorder: T1812718 SR 789 Over Longboat Key Pass

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

LAB QUALIFIERS

T	DOH Certification #E84589(AEL-T)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: T1812718 SR 789 Over Longboat Key Pass

QC Batch: DGMt/2030 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3050B Prepared: 07/31/2018 11:00
Associated Lab Samples: T1812718001, T1812718002, T1812718003

METHOD BLANK: 2792569

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Arsenic	mg/Kg	0.053	0.053	U
Cadmium	mg/Kg	0.0062	0.0062	U
Chromium	mg/Kg	0.10	0.10	U
Lead	mg/Kg	0.052	0.052	U
Zinc	mg/Kg	0.25	0.25	U

LABORATORY CONTROL SAMPLE: 2792570

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Arsenic	mg/Kg	9.8	8.8	89	80-120	
Cadmium	mg/Kg	9.8	8.5	87	80-120	
Chromium	mg/Kg	9.8	9.2	94	80-120	
Lead	mg/Kg	9.8	8.1	83	80-120	
Zinc	mg/Kg	9.8	8.6	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2792571 2792572 Original: G1806489001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Arsenic	mg/Kg	1.3	11	31	38	66	80	75-125	20	20	
Cadmium	mg/Kg	0.2	11	24	27	58	64	75-125	13	20	
Chromium	mg/Kg	5.3	11	45	54	64	83	75-125	18	20	
Lead	mg/Kg	1.2	11	27	31	56	63	75-125	13	20	
Zinc	mg/Kg	10	11	65	71	67	80	75-125	10	20	

QC Batch: DGMt/2054 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 08/03/2018 11:00
Associated Lab Samples: T1812718018, T1812718019

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QUALITY CONTROL DATA

Workorder: T1812718 SR 789 Over Longboat Key Pass

METHOD BLANK: 2796926

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	mg/L	0.016	0.016	U
Cadmium	mg/L	0.0024	0.0024	U
Chromium	mg/L	0.020	0.020	U
Lead	mg/L	0.032	0.032	U

LABORATORY CONTROL SAMPLE: 2796927

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	4	3.9	98	80-120	
Cadmium	mg/L	4	3.8	94	80-120	
Chromium	mg/L	4	3.9	98	80-120	
Lead	mg/L	4	3.6	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2796928 2796929 Original: T1812718019

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Arsenic	mg/L	0.0029	4	4.0	3.9	99	98	75-125	0	20	
Cadmium	mg/L	0.012	4	3.7	3.7	93	93	75-125	0	20	
Chromium	mg/L	0.0075	4	3.9	3.9	99	99	75-125	0	20	
Lead	mg/L	0.13	4	3.7	3.7	90	89	75-125	1	20	

QC Batch: DGMt/2060 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3050B Prepared: 08/06/2018 11:00

Associated Lab Samples: T1812718004, T1812718005, T1812718006, T1812718007, T1812718008, T1812718009, T1812718010, T1812718011,

METHOD BLANK: 2798237

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Arsenic	mg/Kg	0.053	0.053	U
Cadmium	mg/Kg	0.0062	0.0062	U
Chromium	mg/Kg	0.10	0.10	U
Lead	mg/Kg	0.052	0.052	U
Zinc	mg/Kg	0.25	0.25	U

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QUALITY CONTROL DATA

Workorder: T1812718 SR 789 Over Longboat Key Pass

LABORATORY CONTROL SAMPLE: 2798238

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Arsenic	mg/Kg	10	9.7	96	80-120	
Cadmium	mg/Kg	10	9.3	93	80-120	
Chromium	mg/Kg	10	9.9	98	80-120	
Lead	mg/Kg	10	8.9	89	80-120	
Zinc	mg/Kg	10	9.3	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2798239 2798240 Original: T1812914001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Arsenic	mg/Kg	0.59	10	11	11	79	81	75-125	2	20	
Cadmium	mg/Kg	0.0095	10	9.4	9.5	75	76	75-125	1	20	
Chromium	mg/Kg	6.7	10	21	23	100	119	75-125	12	20	
Lead	mg/Kg	6.8	10	18	20	81	97	75-125	10	20	
Zinc	mg/Kg	7.5	10	20	21	83	91	75-125	5	20	

QC Batch: DGMt/2103 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 08/15/2018 11:00
Associated Lab Samples: T1812718020

METHOD BLANK: 2809110

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Lead	mg/L	0.032	0.032	U

LABORATORY CONTROL SAMPLE: 2809111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	4	3.6	89	80-120	

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QUALITY CONTROL DATA

Workorder: T1812718 SR 789 Over Longboat Key Pass

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2809112 2809113 Original: T1812988006

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Lead	mg/L	0	4	3.6	3.6	89	89	75-125	1	20	

QUALITY CONTROL DATA QUALIFIERS

Workorder: T1812718 SR 789 Over Longboat Key Pass

QUALITY CONTROL PARAMETER QUALIFIERS

U The compound was analyzed for but not detected.

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J4 Estimated Result

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1812718001	PS-1 Yellow Lane Paint	SW-846 3050B	DGMt/2030	SW-846 6010	ICPt/1621
T1812718002	PS-2 White Lane Paint	SW-846 3050B	DGMt/2030	SW-846 6010	ICPt/1621
T1812718003	PS-3 Metal Guardrail	SW-846 3050B	DGMt/2030	SW-846 6010	ICPt/1621
T1812718001	PS-1 Yellow Lane Paint			SM 2540G	WCAt/5153
T1812718002	PS-2 White Lane Paint			SM 2540G	WCAt/5153
T1812718003	PS-3 Metal Guardrail			SM 2540G	WCAt/5153
T1812718004	PS-4 Guardrail Post			SM 2540G	WCAt/5153
T1812718005	PS-5 Gray Grafitti Touch up			SM 2540G	WCAt/5153
T1812718006	PS-6 Tan Grafitti Touch up			SM 2540G	WCAt/5153
T1812718007	PS-7 White Grafitti Touch up			SM 2540G	WCAt/5153
T1812718008	PS-8 Blue Bridge Paint			SM 2540G	WCAt/5153
T1812718009	PS-9 Bridge House Yellow Paint			SM 2540G	WCAt/5153
T1812718010	PS-10 Bridge House Tan Paint			SM 2540G	WCAt/5153
T1812718011	PS-11 GrayBridge House Ceiling			SM 2540G	WCAt/5153
T1812718012	PS-12 Green Bridge House Paint			SM 2540G	WCAt/5153
T1812718013	PS-13 Red Drawbridge GearPaint			SM 2540G	WCAt/5153
T1812718014	PS-14 Orange Underbridge Paint			SM 2540G	WCAt/5153
T1812718015	PS-15 White I-Beam Paint			SM 2540G	WCAt/5153
T1812718016	PS-16 Black Piling Paint			SM 2540G	WCAt/5153
T1812718017	PS-17 Gray Underbridge Paint			SM 2540G	WCAt/5153
T1812718018	Comp 1 PS-8 through PS-14	SW-846 3010A	DGMt/2054	SW-846 6010	ICPt/1632
T1812718019	Comp 2 PS-1 to 7/ PS-15 to 17	SW-846 3010A	DGMt/2054	SW-846 6010	ICPt/1632
T1812718004	PS-4 Guardrail Post	SW-846 3050B	DGMt/2060	SW-846 6010	ICPt/1637
T1812718005	PS-5 Gray Grafitti Touch up	SW-846 3050B	DGMt/2060	SW-846 6010	ICPt/1637
T1812718006	PS-6 Tan Grafitti Touch up	SW-846 3050B	DGMt/2060	SW-846 6010	ICPt/1637
T1812718007	PS-7 White Grafitti Touch up	SW-846 3050B	DGMt/2060	SW-846 6010	ICPt/1637
T1812718008	PS-8 Blue Bridge Paint	SW-846 3050B	DGMt/2060	SW-846 6010	ICPt/1637

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1812718 SR 789 Over Longboat Key Pass

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1812718009	PS-9 Bridge House Yellow Paint	SW-846 3050B	DGMt/2060	SW-846 6010	ICPt/1637
T1812718010	PS-10 Bridge House Tan Paint	SW-846 3050B	DGMt/2060	SW-846 6010	ICPt/1637
T1812718011	PS-11 GrayBridge House Ceiling	SW-846 3050B	DGMt/2060	SW-846 6010	ICPt/1637
T1812718012	PS-12 Green Bridge House Paint	SW-846 3050B	DGMt/2060	SW-846 6010	ICPt/1637
T1812718013	PS-13 Red Drawbridge GearPaint	SW-846 3050B	DGMt/2060	SW-846 6010	ICPt/1637
T1812718014	PS-14 Orange Underbridge Paint	SW-846 3050B	DGMt/2060	SW-846 6010	ICPt/1637
T1812718015	PS-15 White I-Beam Paint	SW-846 3050B	DGMt/2060	SW-846 6010	ICPt/1637
T1812718016	PS-16 Black Piling Paint	SW-846 3050B	DGMt/2060	SW-846 6010	ICPt/1637
T1812718017	PS-17 Gray Underbridge Paint	SW-846 3050B	DGMt/2060	SW-846 6010	ICPt/1637
T1812718020	PS-12/PS-9 Composite	SW-846 3010A	DGMt/2103	SW-846 6010	ICPt/1660

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7812718 Page 1 of 2

Client Name: NorthStar Contracting
Address: 2760 S. Falkenburg Road
Phone: 813 684 9400
FAX:
Contact: Phil Glover
Sampled By: Geoff Fenlin
Turn Around Time: ☑ STANDARD ☐ RUSH
AEL Profile #:

Project Name: SR 789 Over Longboat Key Pass
Project Number:
PO Number:
FDEP Facility No:
FDEP Facility Address:
Special Instructions:
☐ ADaPT ☐ EQuIS ☐ Other

ANALYSIS REQUIRED

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	BOTTLE SIZE & TYPE	RCRA 4 Metals	Zinc	LABORATORY I.D. NUMBER
							Preservation			
							Field-Filtered?			
PS-1	Yellow Lane Paint		7/26	1022		1		X	X	W1
PS-2	White Lane Paint		7/26	1115		1		X	X	W2
PS-3	Metal Guardrail		7/26	1220		1		X	X	W3
PS-4	Guardrail Post		7/26	1227		1		X	X	W4
PS-5	Gray Grafitti Touch Up Paint		7/26	1245		1		X	X	W5
PS-6	Tan Grafitti Touch Up Paint		7/26	1256		1		X	X	W6
PS-7	White Grafitti Touch Up Paint		7/26	1300		1		X	X	W7
PS-8	Blue Bridge Paint		7/26	1320		1		X	X	W8
PS-9	Bridge House Yellow Paint		7/26	1330		1		X	X	W9
PS-10	Bridge House Tan Paint		7/26	1335		1		X	X	W10

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = ice H=(HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Received on Ice ☐ Yes ☑ No ☑ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked
Temp. when received (observed) 21.8 °C Temp. when received (corrected) 21.8 °C

DCN: AD-051 Form last revised 06/19/2017
Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 (T: 10A) A: 3A M: 3A S: 1V F: 1A

	Relinquished by:	Date	Time	Received by:	Date	Time
1		7/31	822		7/31/18	0822
2						
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone :
Supplier of Water:
Site-Address:

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TX12718 Page 2 of 2

Client Name: NorthStar
Address: 2760 South Fiftenburg Road
Phone: 813 684 4400
FAX:
Contact: Phil Glover
Sampled By: Geoff Furlith
Turn Around Time: ☑ STANDARD ☐ RUSH
AEL Profile #:

Project Name: SR 789 Longboat Key
Project Number: PASS
PO Number:
FDEP Facility No:
FDEP Facility Address:
Special Instructions:
☐ ADaPT ☐ EQuIS ☐ Other

ANALYSIS REQUIRED

SAMPLE ID	SAMPLE DESCRIPTION	Grab / Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	BOTTLE SIZE & TYPE	RCRA 8 Metals	Zinc	TCLP VOA Metals	LABORATORY I.D. NUMBER
							Preservation				
							Field-Filtered?				
PS-11	Gray Bridge House Cutting		7/26	1340		1		X	X		011
PS-12	Green Bridge House Point		7/26	1350		1		X	X		012
PS-13	Red Drawbridge Gear Point		7/26	1405		1		X	X		013
PS-14	Orange Underbridge Point	~~7/26~~	7/26	1410		1		X	X		014
PS-15	White I-Beam Point		7/30	1330		1		X	X		015
PS-16	Black Piling Point		7/30	1345		1		X	X		016
PS-17	Gray Underbridge Point		7/30	1410		1		X	X		017
Comp 1	PS-8 through PS-14									X	018
Comp 2	PS-1 through PS-7, PS-15 through PS-17									X	019

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☐ Yes ☑ No ☑ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked
Temp. when received (observed) 21.8 °C Temp. when received (corrected) 21.8 °C

DCN: AD-051 Form last revised 06/19/2017
Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 (T: 10A) A: 3A M: 3A S: 1V F: 1A

	Relinquished by:	Date	Time	Received by:	Date	Time
1		7/31	822		7/31/18	0822
2						
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone :
Supplier of Water:
Site-Address:

Appendix D: EDR Area Report

Long Boat Key Bridge
SR 789
Bradenton Beach, FL 34217

Inquiry Number: 7094025.5s
August 22, 2022

EDR Area / Corridor Report

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

TABLE OF CONTENTS

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

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

SR 789
BRADENTON BEACH, FL 34217

TARGET PROPERTY SEARCH RESULTS

The Target Property was identified in the following databases.

Page Numbers and Map Identifcations 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.

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Page Numbers and Map Identifcations 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.

STANDARD ENVIRONMENTAL RECORDS

Federal ERNS list

ERNS: Emergency Response Notification System

A review of the ERNS list, as provided by EDR, and dated 06/14/2022 has revealed that there is 1 ERNS site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
Not reported	2650 GULF DR S	W 0 - 1/8 (0.102 mi.)	1 / 1	8
NRC Report #: 1197630 Incident Date Time: 2017-11-18 14:45:00				

EXECUTIVE SUMMARY

Lists of state and tribal leaking storage tanks

LUST: Petroleum Contamination Detail Report

A review of the LUST list, as provided by EDR, and dated 04/25/2022 has revealed that there is 1 LUST site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
LONGBOAT KEY TOWN-FI	***7100 FIREHOUSE RD***	***SSW 1/8 - 1/4 (0.236 mi.)***	***A3 / 1***	***9***
Discharge Cleanup Status: NFA - NFA COMPLETE Facility Status: CLOSED Facility-Site Id: 8624192				

Lists of state and tribal registered storage tanks

UST: Storage Tank Facility Information

A review of the UST list, as provided by EDR, has revealed that there is 1 UST site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
LONGBOAT KEY TOWN-FI	***7100 FIREHOUSE RD***	***SSW 1/8 - 1/4 (0.236 mi.)***	***A3 / 1***	***9***
Database: UST, Date of Government Version: 05/05/2022 Tank Status: B Facility-Site Id: 8624192 Facility Status: CLOSED				

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

DWM CONTAM: DWM CONTAMINATED SITES

A review of the DWM CONTAM list, as provided by EDR, and dated 11/30/2021 has revealed that there is 1 DWM CONTAM site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
LONGBOAT KEY TOWN-FI	***7100 FIREHOUSE RD***	***SSW 1/8 - 1/4 (0.236 mi.)***	***A3 / 1***	***9***
Program Site Id: 8624192				

NPDES: Wastewater Facility Regulation Database

A review of the NPDES list, as provided by EDR, and dated 05/02/2022 has revealed that there is 1 NPDES site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
MANHOLE INSTALLATION		SE 1/8 - 1/4 (0.216 mi.)	2 / 1	8

Status: A
Facility ID: FLR20AZ65

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

A review of the RGA LUST list, as provided by EDR, has revealed that there are 2 RGA LUST sites within approximately 0.25 miles of the requested target property.

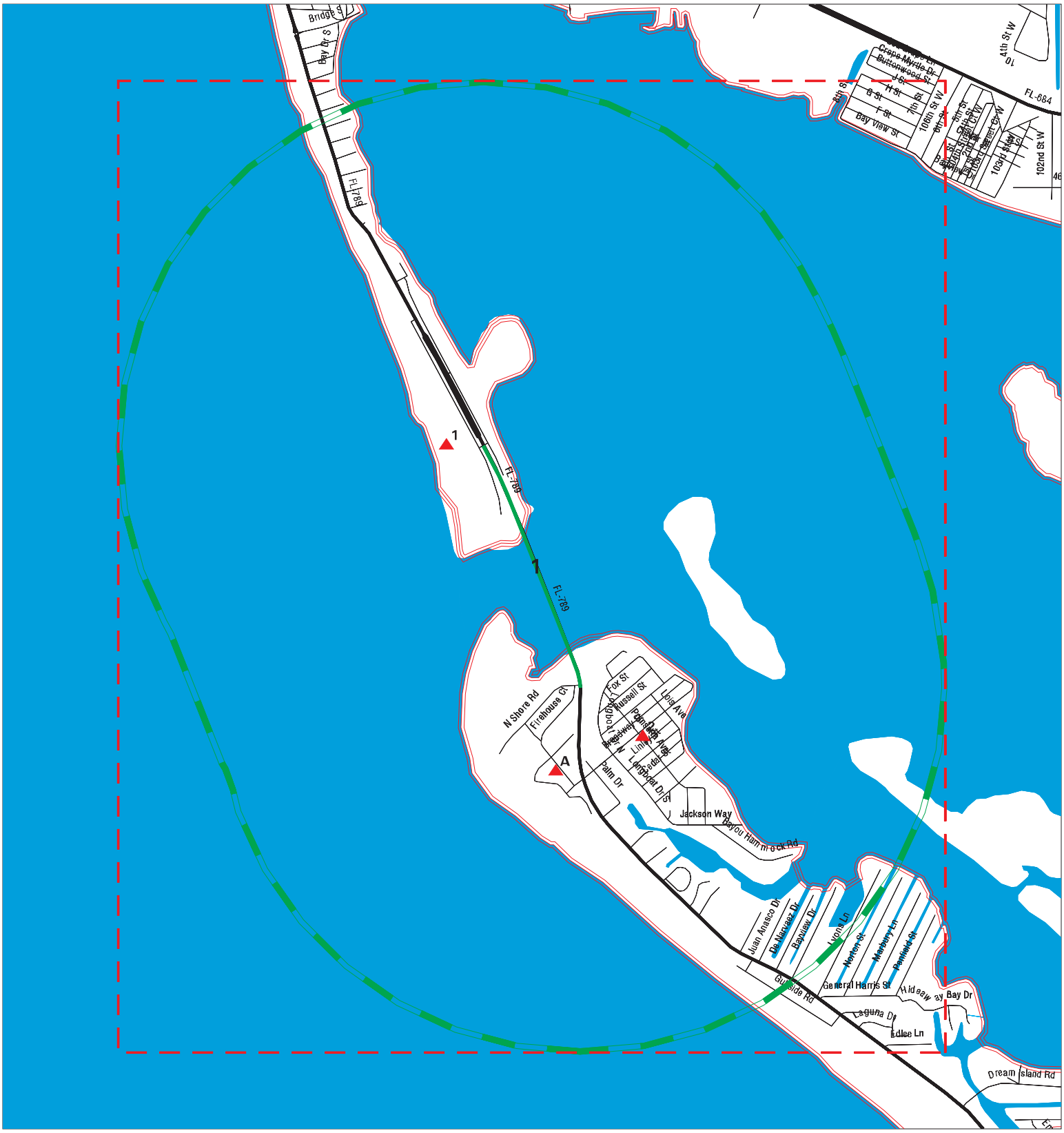
Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
LONGBOAT KEY,TOWN-FI Facility ID: 8624192	7100 FIREHOUSE RD	SSW 1/8 - 1/4 (0.236 mi.)	A4 / 1	13
LONGBOAT KEY TOWN-FI Facility ID: 8624192	7100 FIREHOUSE RD	SSW 1/8 - 1/4 (0.236 mi.)	A5 / 1	13

MAPPED SITES SUMMARY

Target Property:
SR 789
BRADENTON BEACH, FL 34217

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
1 / 1		2650 GULF DR S	ERNS	536 0.102 West
2 / 1	MANHOLE INSTALLATION		NPDES	1141 0.216 SE
A3 / 1	LONGBOAT KEY TOWN-FI	7100 FIREHOUSE RD	LUST, UST, DWM CONTAM	1246 0.236 SSW
A4 / 1	LONGBOAT KEY,TOWN-FI	7100 FIREHOUSE RD	RGA LUST	1246 0.236 SSW
A5 / 1	LONGBOAT KEY TOWN-FI	7100 FIREHOUSE RD	RGA LUST	1246 0.236 SSW

Key Map - 7094025.5s



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

0 1/4 1/2 Miles

SITE NAME: Long Boat Key Bridge	CLIENT: Scalar Consulting Group
ADDRESS: SR 789	CONTACT: Frank Kahoun
CITY/STATE: Bradenton Beach FL	INQUIRY #: 7094025.5s
ZIP: 34217	DATE: 08/22/22 2:18 PM

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
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	0.250		0	0	NR	NR	NR	0
Proposed NPL	0.250		0	0	NR	NR	NR	0
NPL LIENS	0.250		0	0	NR	NR	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	0.250		0	0	NR	NR	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.250		0	0	NR	NR	NR	0
SEMS	0.250		0	0	NR	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.250		0	0	NR	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	0.250		0	0	NR	NR	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.250		0	0	NR	NR	NR	0
Lists of Federal RCRA generators								
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
Federal institutional controls / engineering controls registries								
LUCIS	0.250		0	0	NR	NR	NR	0
US ENG CONTROLS	0.250		0	0	NR	NR	NR	0
US INST CONTROLS	0.250		0	0	NR	NR	NR	0
Federal ERNS list								
ERNS	0.250		1	0	NR	NR	NR	1
Lists of state- and tribal hazardous waste facilities								
SHWS	0.250		0	0	NR	NR	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.250		0	0	NR	NR	NR	0
Lists of state and tribal leaking storage tanks								
LUST	0.250		0	1	NR	NR	NR	1

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
LAST	0.250		0	0	NR	NR	NR	0
INDIAN LUST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
FF TANKS	0.250		0	0	NR	NR	NR	0
UST	0.250		0	1	NR	NR	NR	1
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
TANKS	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.250		0	0	NR	NR	NR	0
INST CONTROL	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.250		0	0	NR	NR	NR	0
VCP	0.250		0	0	NR	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.250		0	0	NR	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.250		0	0	NR	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.250		0	0	NR	NR	NR	0
INDIAN ODI	0.250		0	0	NR	NR	NR	0
DEBRIS REGION 9	0.250		0	0	NR	NR	NR	0
ODI	0.250		0	0	NR	NR	NR	0
IHS OPEN DUMPS	0.250		0	0	NR	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.250		0	0	NR	NR	NR	0
PRIORITYCLEANERS	0.250		0	0	NR	NR	NR	0
Fl Sites	0.250		0	0	NR	NR	NR	0
US CDL	0.250		0	0	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS 2	0.250		0	0	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.250		0	0	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
SPILLS	0.250		0	0	NR	NR	NR	0
SPILLS 90	0.250		0	0	NR	NR	NR	0
SPILLS 80	0.250		0	0	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	0.250		0	0	NR	NR	NR	0
DOD	0.250		0	0	NR	NR	NR	0
SCRD DRYCLEANERS	0.250		0	0	NR	NR	NR	0
US FIN ASSUR	0.250		0	0	NR	NR	NR	0
EPA WATCH LIST	0.250		0	0	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.250		0	0	NR	NR	NR	0
TRIS	0.250		0	0	NR	NR	NR	0
SSTS	0.250		0	0	NR	NR	NR	0
ROD	0.250		0	0	NR	NR	NR	0
RMP	0.250		0	0	NR	NR	NR	0
RAATS	0.250		0	0	NR	NR	NR	0
PRP	0.250		0	0	NR	NR	NR	0
PADS	0.250		0	0	NR	NR	NR	0
ICIS	0.250		0	0	NR	NR	NR	0
FTTS	0.250		0	0	NR	NR	NR	0
MLTS	0.250		0	0	NR	NR	NR	0
COAL ASH DOE	0.250		0	0	NR	NR	NR	0
COAL ASH EPA	0.250		0	0	NR	NR	NR	0
PCB TRANSFORMER	0.250		0	0	NR	NR	NR	0
RADINFO	0.250		0	0	NR	NR	NR	0
HIST FTTS	0.250		0	0	NR	NR	NR	0
DOT OPS	0.250		0	0	NR	NR	NR	0
CONSENT	0.250		0	0	NR	NR	NR	0
INDIAN RESERV	0.250		0	0	NR	NR	NR	0
FUSRAP	0.250		0	0	NR	NR	NR	0
UMTRA	0.250		0	0	NR	NR	NR	0
LEAD SMELTERS	0.250		0	0	NR	NR	NR	0
US AIRS	0.250		0	0	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	0.250		0	0	NR	NR	NR	0
DOCKET HWC	0.250		0	0	NR	NR	NR	0
UXO	0.250		0	0	NR	NR	NR	0
ECHO	0.250		0	0	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	0.250		0	0	NR	NR	NR	0
ASBESTOS	0.250		0	0	NR	NR	NR	0
CLEANUP SITES	0.250		0	0	NR	NR	NR	0
DEDB	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
DWM CONTAM	0.250		0	1	NR	NR	NR	1
Financial Assurance	0.250		0	0	NR	NR	NR	0
FL Cattle Dip. Vats	0.250		0	0	NR	NR	NR	0
HW GEN	0.250		0	0	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
RESP PARTY	0.250		0	0	NR	NR	NR	0
SITE INV SITES	0.250		0	0	NR	NR	NR	0
TIER 2	0.250		0	0	NR	NR	NR	0
UIC	0.250		0	0	NR	NR	NR	0
NPDES	0.250		0	1	NR	NR	NR	1
MINES MRDS	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	0.250		0	0	NR	NR	NR	0
EDR Hist Auto	0.250		0	0	NR	NR	NR	0
EDR Hist Cleaner	0.250		0	0	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	0.250		0	0	NR	NR	NR	0
RGA LF	0.250		0	0	NR	NR	NR	0
RGA LUST	0.250		0	2	NR	NR	NR	2
- Totals --		0	1	6	0	0	0	7

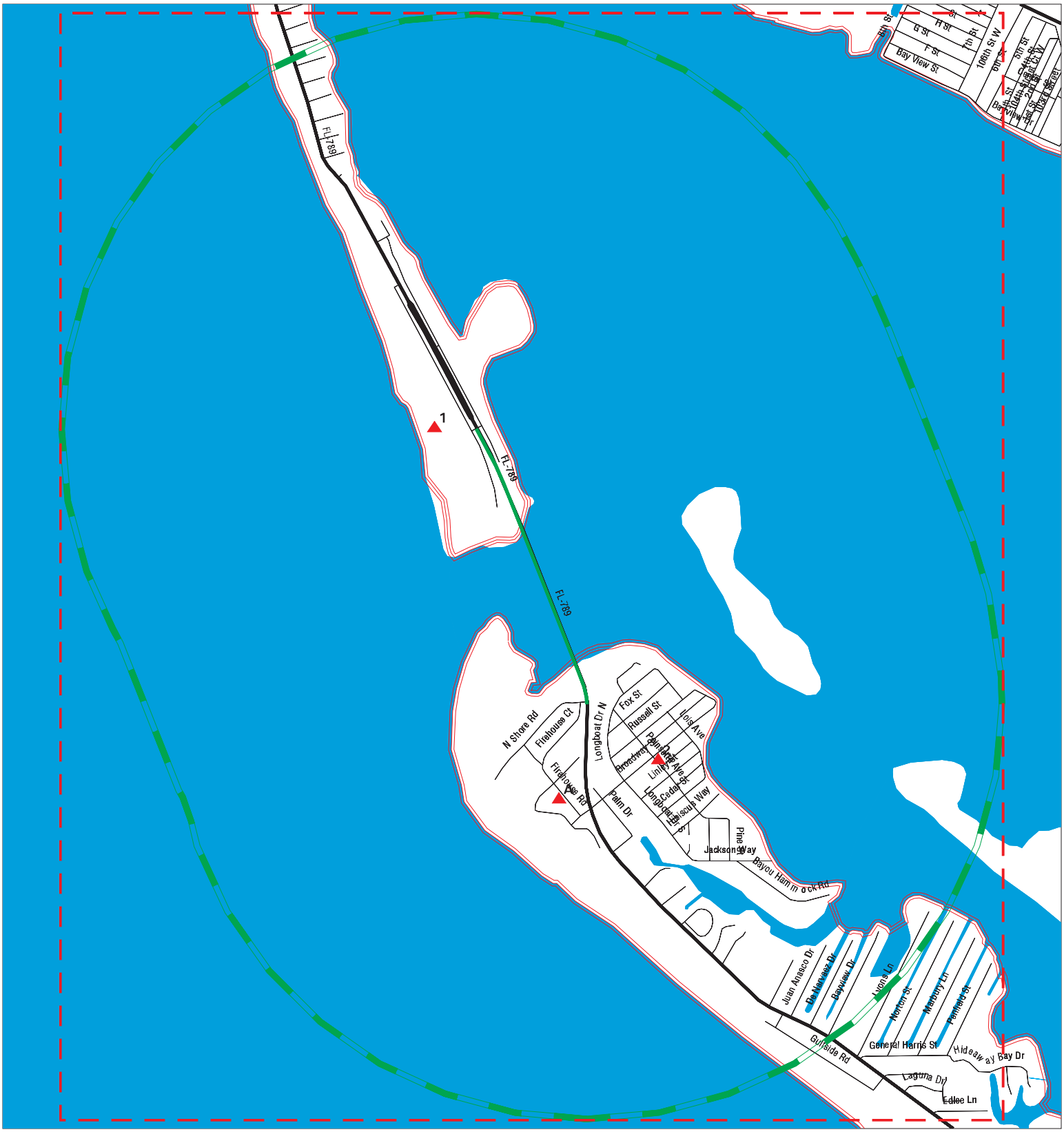
NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Focus Map - 1 - 7094025.5s



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

SITE NAME: Long Boat Key Bridge	CLIENT: Scalar Consulting Group
ADDRESS: SR 789	CONTACT: Frank Kahoun
CITY/STATE: Bradenton Beach FL	INQUIRY #: 7094025.5s
ZIP: 34217	DATE: 08/22/22

MAPPED SITES SUMMARY - FOCUS MAP 1

Target Property:
SR 789
BRADENTON BEACH, FL 34217

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
1 / 1		2650 GULF DR S	ERNS	536 0.102 West
2 / 1	MANHOLE INSTALLATION		NPDES	1141 0.216 SE
A3 / 1	LONGBOAT KEY TOWN-FI	7100 FIREHOUSE RD	LUST, UST, DWM CONTAM	1246 0.236 SSW
A4 / 1	LONGBOAT KEY,TOWN-FI	7100 FIREHOUSE RD	RGA LUST	1246 0.236 SSW
A5 / 1	LONGBOAT KEY TOWN-FI	7100 FIREHOUSE RD	RGA LUST	1246 0.236 SSW

Map ID / Direction / Distance / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
1 **West** **< 1/8** **0.102 mi.** **536 ft.**	**2650 GULF DR S** **BRADENTON BEACH, FL**	**ERNS**	**2017197630** **N/A**

Actual: **5 ft.**

Focus Map: **1**

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

---

2 **SE** **1/8-1/4** **0.216 mi.** **1141 ft.**	**MANHOLE INSTALLATIONS-TOWN OF LONGBOAT KEY** **LONGBOAT KEY, FL**	**NPDES**	**S118898108** **N/A**

Actual: **2 ft.**

Focus Map: **1**

WASTEWATER:

Name:	MANHOLE INSTALLATIONS-TOWN OF LONGBOAT KEY
Address:	Not reported
City,State,Zip:	LONGBOAT KEY, FL
Facility ID:	FLR20AZ65
Facility Type:	Construction Generic Dewatering
Status:	Active - Existing, permitted facility/site for which effluent, reclaimed water or wastewater residual discharge into the environment and/or monitoring is taking place.
District Office:	TLST
NPDES Permitted Site:	Not reported
Environmental Interest:	Not reported
Owner Type:	Private
Permit Capacity:	Not reported
Party Name:	Bill Gore, PMTE
Company Name:	Not reported
RP Address:	5355 McIntosh Rd
RP Address 2:	Ste E
RP City,Stat,Zip:	Sarasota FL 34233-4400
Telephone:	9417354088
Email:	billg@dnhiggins.com
Issue Date:	10/27/2016
Effective Date:	10/27/2016
Expiration Date:	10/26/2021
DOC Description:	Generic Permit
Latitude Degrees:	27
Latitude Minutes:	26
Latitude Seconds:	13.38
Longitude Degrees:	82
Longitude Minutes:	40
Longitude Seconds:	58.73
Treatment:	Not reported
Decode For Fstatus:	Active

A3 **LONGBOAT KEY TOWN-FIRE DEPT** **LUST** **U001360535**
SSW **7100 FIREHOUSE RD** **UST** **N/A**
1/8-1/4 **LONGBOAT KEY, FL 34228** **DWM CONTAM**
0.236 mi.
1246 ft. **Site 1 of 3 in cluster A**

Actual:
6 ft.

Focus Map:
1

LUST:

Name:	LONGBOAT KEY TOWN-FIRE DEPT
Address:	7100 FIREHOUSE RD
City,State,Zip:	LONGBOAT KEY, FL 34228
Region:	STATE
Facility Id:	8624192
Facility Status:	CLOSED
Facility Type:	H - Local Government
Facility Phone:	(813)383-1592
Facility Cleanup Rank:	Not reported
District:	Southwest District
Lat/Long (dms):	27 26 8.5 / 82 41 12.89
Section:	15
Township:	35
Range:	16
Feature:	Not reported
Method:	UNVR
Datum:	0
Score:	Not reported
Score Effective Date:	Not reported
Score When Ranked:	Not reported
Operator:	LONGBOAT KEY TOWN
Name Update:	2000-03-01 00:00:00
Address Update:	Not reported

Petroleum Cleanup PCT Facility Score:

Facility Cleanup Status:	CMPL - COMPLETED
Contact:	SANDI HENLEY / TOM HARMER (941-316-1999)
Contact Company:	LONGBOAT KEY TOWN
Contact Address:	501 BAY ISLES RD
Contact City/State/Zip:	LONGBOAT KEY, FL 34228
Phone:	(941)316-8700
Bad Address Ind:	N
State:	FL
Zip:	34228, 1140
Score:	Not reported
Score Effective Date:	Not reported
Related Party ID:	22125
Primary RP Role:	ACCOUNT OWNER
RP Begin Date:	1994-05-20
RP Zip:	3102
RP Extension:	Not reported

Discharge Cleanup Summary:

Discharge Date:	6/13/1992
PCT Discharge Combined:	Not reported
Cleanup Required:	R - CLEANUP REQUIRED
Discharge Cleanup Status:	NFA - NFA COMPLETE
Disch Cleanup Status Date:	9/14/1993
Cleanup Work Status:	COMPLETED
Information Source:	D - DISCHARGE NOTIFICATION
Other Source Description:	Not reported
Eligibility Indicator:	I - INELIGIBLE

LONGBOAT KEY TOWN-FIRE DEPT (Continued) **U001360535**

Site Manager:	Not reported
Site Mgr End Date:	Not reported
Tank Office:	-

Petroleum Cleanup Program Eligibility:

Facility ID:	8624192
Discharge Date:	6/13/1992
Pct Discharge Combined With:	Not reported
Cleanup Required:	R - CLEANUP REQUIRED
Discharge Cleanup Status:	NFA - NFA COMPLETE
Disch Cleanup Status Date:	9/14/1993
Cleanup Work Status:	COMPLETED
Information Source:	Not reported
Other Source Description:	Not reported
Application Received Date:	Not reported
Cleanup Program:	C - PETROLEUM CLEANUP PARTICIPATION PROGRAM
Eligibility Status:	Not reported
Elig Status Date:	Not reported
Letter Of Intent Date:	Not reported
Redetermined:	Not reported
Inspection Date:	Not reported
Site Manager:	Not reported
Site Mgr End Date:	Not reported
Tank Office:	-
Deductible Amount:	Not reported
Deductible Paid To Date:	Not reported
Co-Pay Amount:	Not reported
Co-Pay Paid To Date:	Not reported
Cap Amount:	0

Task Information:

District:	SWD
Facility ID:	8624192
Facility Status:	CLOSED
Facility Type:	H - Local Government -
County:	MANATEE
County ID:	41
Cleanup Eligibility Status:	I
Source Effective Date:	09-14-1993
Discharge Date:	06-13-1992
Cleanup Required:	R - CLEANUP REQUIRED
Discharge Cleanup Status:	NFA - NFA COMPLETE
Disch Cleanup Status Date:	09-14-1993
SRC Action Type:	NFA - NO FURTHER ACTION
SRC Submit Date:	08-06-1993
SRC Review Date:	08-30-1993
SRC Completion Status:	A - APPROVED
SRC Issue Date:	09-14-1993
SRC Comment:	Not reported
Cleanup Work Status:	COMPLETED
Site Mgr:	Not reported
Site Mgr End Date:	Not reported
Tank Office:	-
SR Task ID:	Not reported
SR Cleanup Responsible:	-
SR Funding Eligibility Type:	-
SR Actual Cost:	Not reported
SR Completion Date:	Not reported

LONGBOAT KEY TOWN-FIRE DEPT (Continued) **U001360535**

SR Payment Date:	Not reported
SR Oral Date:	Not reported
SR Written Date:	Not reported
SR Soil Removal:	Not reported
SR Free Product Removal:	Not reported
SR Soil Tonnage Removed:	Not reported
SR Soil Treatment:	Not reported
SR Other Treatment:	Not reported
SR Alternate Proc Received Date:	Not reported
SR Alternate Procedure Status:	Not reported
SR Alternate Procedure Status Date:	Not reported
SR Alternate Procedure Comments:	Not reported
SA Task ID:	50412
SA Cleanup Responsible:	-
SA Funding Eligibility Type:	-
SA Actual Cost:	Not reported
SA Completion Date:	09-14-1993
SA Payment Date:	Not reported
RAP Task ID:	50413
RAP Cleanup Responsible ID:	OTHER - OTHER
RAP Funding Eligibility Type:	-
RAP Actual Cost:	Not reported
RAP Completion Date:	Not reported
RAP Payment Date:	Not reported
RAP Last Order Approved:	Not reported
RA Task ID:	50414
RA Cleanup Responsible:	OTHER - OTHER
RA Funding Eligibility Type:	-
RA Years to Complete:	Not reported
RA Actual Cost:	Not reported

Click here for Florida Oculus:

UST:

Facility ID:	8624192
Name:	LONGBOAT KEY TOWN-FIRE DEPT
Address:	7100 FIREHOUSE RD
City,State,Zip:	LONGBOAT KEY, FL 34228
Facility Phone:	8133831592
Facility Status:	CLOSED
Facility Type:	H
Type Description:	Local Government
Depco:	P
Region:	STATE
Positioning Method:	UNVR
Latitude/Longitude:	27 26 4 / 82 41 3

UST:

Tank ID:	1
Tank Capacity:	550
Tank Location:	UNDERGROUND
Tank Status:	B
Status Date:	06/30/1991
Install Date:	Not reported
Substance:	D
Content Description:	Vehicular Diesel
Vessel Indicator:	TANK

LONGBOAT KEY TOWN-FIRE DEPT (Continued) **U001360535**

DEP Contractor: P

Owner:
Owner ID: 22125
Owner Name: LONGBOAT KEY TOWN
Owner Address: 501 BAY ISLES RD
Owner Address 2: ATTN: STORAGE TANK REGIS
Owner City,State,Zip: LONGBOAT KEY, FL 34228
Owner Contact: SANDI HENLEY / TOM HARMER (941-316-1999)
Owner Phone: 9413168700

DWM CONTAM:
Name: LONGBOAT KEY TOWN-FIRE DEPT
Address: 7100 FIREHOUSE RD
City,State,Zip: LONGBOAT KEY, FL
Program Site Id: 8624192
Lat DD: 27
Lat MM: 26
Lat SS: 4
Long DD: 82
Long MM: 41
Long SS: 3
Office/ District: SWD
Program Area: STORAGE TANKS
Priority Score: Not reported
Datum: Not reported
Method: UNVR
Facility Status: CLOSED
Facility Type: Not reported
Score Effective Date: Not reported
Score When Ranked: Not reported
Rank: Not reported
Operator: Not reported
Phone: Not reported
Name Changed: Not reported
Addr Changed: Not reported
Related Party ID: Not reported
Primary RP Role: Not reported
RP Begin Date: Not reported
RP Name: Not reported
RP Address1: Not reported
RP Address2: Not reported
RP City: Not reported
RP State: Not reported
RP Zip5: Not reported
RP Zip4: Not reported
Contact: Not reported
RP Phone: Not reported
RP Extension: Not reported
Site Manager: Not reported

A4 **LONGBOAT KEY,TOWN-FIRE DEPT.** **RGA LUST** **S115185220**
SSW **7100 FIREHOUSE RD** **N/A**
1/8-1/4 **LONGBOAT KEY, FL**
0.236 mi.
1246 ft. **Site 2 of 3 in cluster A**

Actual: RGA LUST:
6 ft.

1999	LONGBOAT KEY,TOWN-FIRE DEPT.	7100 FIREHOUSE RD
1998	LONGBOAT KEY,TOWN-FIRE DEPT.	7100 FIREHOUSE RD

Focus Map:
1

A5 **LONGBOAT KEY TOWN-FIRE DEPT** **RGA LUST** **S115185219**
SSW **7100 FIREHOUSE RD** **N/A**
1/8-1/4 **LONGBOAT KEY, FL**
0.236 mi.
1246 ft. **Site 3 of 3 in cluster A**

Actual: RGA LUST:
6 ft.

2012	LONGBOAT KEY TOWN-FIRE DEPT	7100 FIREHOUSE RD
2011	LONGBOAT KEY TOWN-FIRE DEPT	7100 FIREHOUSE RD
2010	LONGBOAT KEY TOWN-FIRE DEPT	7100 FIREHOUSE RD
2009	LONGBOAT KEY TOWN-FIRE DEPT	7100 FIREHOUSE RD
2008	LONGBOAT KEY TOWN-FIRE DEPT	7100 FIREHOUSE RD
2007	LONGBOAT KEY TOWN-FIRE DEPT	7100 FIREHOUSE RD
2006	LONGBOAT KEY TOWN-FIRE DEPT	7100 FIREHOUSE RD
2005	LONGBOAT KEY TOWN-FIRE DEPT	7100 FIREHOUSE RD
2004	LONGBOAT KEY TOWN-FIRE DEPT	7100 FIREHOUSE RD
2003	LONGBOAT KEY TOWN-FIRE DEPT	7100 FIREHOUSE RD
2002	LONGBOAT KEY TOWN-FIRE DEPT	7100 FIREHOUSE RD
2001	LONGBOAT KEY TOWN-FIRE DEPT	7100 FIREHOUSE RD
2000	LONGBOAT KEY TOWN-FIRE DEPT	7100 FIREHOUSE RD

Focus Map:
1

Count: 18 records

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BRADENTON BEACH	2020280578		2653 S. GULF DR.		ERNS
BRADENTON BEACH	S119089732		BETWEEN 9TH AND 10TH STREET NORTH @ GULF BOULEVARD		SPILLS
BRADENTON BEACH	S119093942		GULF OF MEXICO, NEAR 2600 GULF DR		SPILLS
BRADENTON BEACH	S118683209		2601 GULF DRIVE		SPILLS
BRADENTON BEACH	S118684199		GULF DRIVE & 26TH STREET BRADENTON BEACH		SPILLS
BRADENTON BEACH	1009803484	COQUINA BEACH MULTI-USE TRAIL	GULF DR	34217	FINDS, ECHO
BRADENTON BEACH	1026788979	COQUINA BEACH DRAINAGE IMPROVEMENTS	GULF DR S	34217	FINDS
BRADENTON BEACH	1026739500	COQUINA BEACH DRAINAGE IMPROVEMENTS	GULF DR S	34217	ECHO
HOLMES BEACH	2013052235		5053 GULF DR.		ERNS
HOLMES BEACH	S119093478		BEACH, ALONG 5600 BLOCK OF GULF DRIVE		SPILLS
LONGBOAT KEY	1014952040	FDOT BRIDGE #130057	ST RD 789 OVER LONGBOAT PASS	34228	RCRA-VSQG
LONGBOAT KEY	S119093373		LONGBOAT KEY BEACH NEAR MONROE ST AND GULF OF MEXICO DRIVE		SPILLS
LONGBOAT KEY	S123491032		2401 GULF OF MEXICO DRIVE		SPILLS
LONGBOAT KEY	S108977141		GULF OF MEXICO DRIVE		SPILLS
LONGBOAT KEY	1015880082	FDOT BRIDGE #130057	ST RD 789 OVER LONGBOAT PASS	34228	FINDS, ECHO
LONGBOAT KEY	1026976485	SAGE LONGBOAT KEY RESIDENCES	4651 GULF OF MEXICO DR	34228	FINDS
LONGBOAT KEY	S128174608	BASEWIDE- LONG BOAT KEY BOMB & GUN RANGE	GULF OF MEXICO DR		DWM CONTAM
MANATEE COUNTY	2015116865		GULF OF MEXICO		ERNS

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: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 10/10/2022
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 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

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: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 10/10/2022
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.

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: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 10/10/2022
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: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/27/2022
Next Scheduled EDR Contact: 10/10/2022
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 know 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: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

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: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 10/24/2022
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: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
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: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
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: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

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: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
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: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
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: 05/16/2022
Date Data Arrived at EDR: 05/19/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 71

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/03/2022
Next Scheduled EDR Contact: 11/21/2022
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: 05/16/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
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: 05/16/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

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: 06/14/2022
Date Data Arrived at EDR: 06/15/2022
Date Made Active in Reports: 06/21/2022
Number of Days to Update: 6

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/15/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

SHWS: Florida's State-Funded Action Sites

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: 05/12/2022
Date Data Arrived at EDR: 05/17/2022
Date Made Active in Reports: 08/03/2022
Number of Days to Update: 78

Source: Department of Environmental Protection
Telephone: 850-488-0190
Last EDR Contact: 08/18/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Semi-Annually

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Solid Waste Facility Database

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: 04/11/2022
Date Data Arrived at EDR: 04/12/2022
Date Made Active in Reports: 07/01/2022
Number of Days to Update: 80

Source: Department of Environmental Protection
Telephone: 850-922-7121
Last EDR Contact: 07/11/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

LUST: Petroleum Contamination Detail Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 04/25/2022
Date Data Arrived at EDR: 04/26/2022
Date Made Active in Reports: 07/14/2022
Number of Days to Update: 79

Source: Department of Environmental Protection
Telephone: 850-245-8839
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tank Listing

The file for Leaking Aboveground Storage Tanks. Please remember STCM does not track the source of the discharge so the agency provides a list of facilities with an aboveground tank and an open discharge split by facilities with aboveground tanks only and facilities with aboveground and underground tanks.

Date of Government Version: 04/25/2022
Date Data Arrived at EDR: 04/26/2022
Date Made Active in Reports: 07/14/2022
Number of Days to Update: 79

Source: Department of Environmental Protection
Telephone: 850-245-8799
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
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: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
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: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
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: 04/08/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
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: 04/11/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
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: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/28/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
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: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
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.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

FF TANKS: Federal Facilities Listing
A listing of federal facilities with storage tanks.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 85

Source: Department of Environmental Protection
Telephone: 850-245-8250
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

UST: Storage Tank Facility Information
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: 05/05/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/25/2022
Number of Days to Update: 80

Source: Department of Environmental Protection
Telephone: 850-245-8839
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

AST: Storage Tank Facility Information
Registered Aboveground Storage Tanks.

Date of Government Version: 05/05/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/25/2022
Number of Days to Update: 80

Source: Department of Environmental Protection
Telephone: 850-245-8839
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
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: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
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: 04/08/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
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: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
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: 04/14/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
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).

Date of Government Version: 04/07/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
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: 04/11/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
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: 04/28/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
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: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

TANKS: Storage Tank Facility List

This listing includes storage tank facilities that do not have tank information. The tanks have either be closed or removed from the site, but the facilities were still registered at some point in history.

Date of Government Version: 05/05/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/25/2022
Number of Days to Update: 80

Source: Department of Environmental Protection
Telephone: 850-245-8841
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

State and tribal institutional control / engineering control registries

ENG CONTROLS: Institutional Controls Registry

The registry is a database of all contaminated sites in the state of Florida which are subject to engineering controls. Engineering Controls encompass a variety of engineered remedies to contain and/or reduce contamination, and/or physical barriers intended to limit access to property. ECs include fences, signs, guards, landfill caps, provision of potable water, slurry walls, sheet pile (vertical caps), pumping and treatment of groundwater, monitoring wells, and vapor extraction systems.

Date of Government Version: 03/28/2022
Date Data Arrived at EDR: 03/29/2022
Date Made Active in Reports: 06/23/2022
Number of Days to Update: 86

Source: Department of Environmental Protection
Telephone: 850-245-8927
Last EDR Contact: 06/27/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Semi-Annually

Inst Control: Institutional Controls Registry

The registry is a database of all contaminated sites in the state of Florida which are subject to institutional and engineering controls.

Date of Government Version: 03/28/2022
Date Data Arrived at EDR: 03/29/2022
Date Made Active in Reports: 06/23/2022
Number of Days to Update: 86

Source: Department of Environmental Protection
Telephone: 850-245-8927
Last EDR Contact: 06/27/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Semi-Annually

Lists of state and tribal voluntary cleanup sites

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: 06/15/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

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

VCP: Voluntary Cleanup Sites
Listing of closed and active voluntary cleanup sites.

Date of Government Version: 04/12/2022
Date Data Arrived at EDR: 05/13/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 18

Source: Department of Environmental Protection
Telephone: 850-245-8705
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS AREAS: Brownfields Areas Database
A "brownfield area" means a contiguous area of one or more brownfield sites, some of which may not be contaminated, that has been designated as such by a local government resolution. Such areas may include all or portions of community redevelopment areas, enterprise zones, empowerment zones, other such designated economically deprived communities and areas, and Environmental Protection Agency (EPA) designated brownfield pilot projects. This layer provides a polygon representation of the boundaries of these designated Brownfield Areas in Florida.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 78

Source: Department of Environmental Protection
Telephone: 850-245-8934
Last EDR Contact: 06/27/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

BROWNFIELDS: Brownfields Sites Database
Brownfields are defined by the Florida Department of Environmental Protection (FDEP) as abandoned, idled, or underused industrial and commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination.

Date of Government Version: 01/11/2022
Date Data Arrived at EDR: 03/29/2022
Date Made Active in Reports: 06/23/2022
Number of Days to Update: 86

Source: Department of Environmental Protection
Telephone: 850-245-8927
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Semi-Annually

BSRA: Brownfield Site Rehabilitation Agreements Listing
The BSRA provides DEP and the public assurance that site rehabilitation will be conducted in accordance with Florida Statutes and DEP's Contaminated Site Cleanup Criteria rule. In addition, the BSRA provides limited liability protection for the voluntary responsible party. The BSRA contains various commitments by the voluntary responsible party, including milestones for completion of site rehabilitation tasks and submittal of technical reports and plans.
It also contains a commitment by DEP to review technical reports according to an agreed upon schedule. Only those brownfield sites with an executed BSRA are eligible to apply for a voluntary cleanup tax credit incentive pursuant to Section 376.30781, Florida Statutes.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/29/2022
Date Made Active in Reports: 06/23/2022
Number of Days to Update: 86

Source: Department of Environmental Protection
Telephone: 850-245-8934
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Varies

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: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 08/08/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Centers

A listing of recycling centers located in the state of Florida.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 84
Source: Department of Environmental Protection
Telephone: 850-245-8718
Last EDR Contact: 07/07/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

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: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

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: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: No Update Planned

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

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 Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
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: 04/30/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/18/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned

PRIORITYCLEANERS: Priority Ranking List

The Florida Legislature has established a state-funded program to cleanup properties that are contaminated as a result of the operations of a drycleaning facility.

Date of Government Version: 04/30/2022
Date Data Arrived at EDR: 05/12/2022
Date Made Active in Reports: 08/04/2022
Number of Days to Update: 84

Source: Department of Environmental Protection
Telephone: 850-245-8927
Last EDR Contact: 08/08/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Varies

FL SITES: Sites List

This summary status report was developed from a number of lists including the Eckhardt list, the Moffit list, the EPA Hazardous Waste Sites list, EPA's Emergency & Remedial Response information System list (RCRA Section 3012) & existing department lists such as the obsolete uncontrolled Hazardous Waste Sites list. This list is no longer updated.

Date of Government Version: 12/31/1989
Date Data Arrived at EDR: 05/09/1994
Date Made Active in Reports: 08/04/1994
Number of Days to Update: 87

Source: Department of Environmental Protection
Telephone: 850-245-8705
Last EDR Contact: 03/24/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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: 04/30/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/18/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Quarterly

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

DEP has conducted initial environmental assessments related to the historic and current use of chemicals found in aqueous film forming foam (AFFF) at fire training facilities throughout Florida

Date of Government Version: 02/11/2022
Date Data Arrived at EDR: 02/18/2022
Date Made Active in Reports: 05/11/2022
Number of Days to Update: 82

Source: Department of Environmental Protection
Telephone: 850-245-8690
Last EDR Contact: 06/02/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

PFAS: PFOS and PFOA stand for perfluorooctane sulfonate and perfluorooctanoic acid
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: 07/24/2022
Date Data Arrived at EDR: 07/25/2022
Date Made Active in Reports: 08/08/2022
Number of Days to Update: 14
Source: Department of Environmental Protection
Telephone: 850-245-8690
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

Local Land Records

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: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26
Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 10/10/2022
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: 03/21/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 85
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

SPILLS: Oil and Hazardous Materials Incidents
Statewide oil and hazardous materials inland incidents.

Date of Government Version: 04/04/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 06/29/2022
Number of Days to Update: 85
Source: Department of Environmental Protection
Telephone: 850-245-2010
Last EDR Contact: 07/05/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

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: 12/10/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/04/2013
Number of Days to Update: 60
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.

Date of Government Version: 09/01/2001
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/06/2013
Number of Days to Update: 62

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: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
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: 05/11/2022
Date Data Arrived at EDR: 05/17/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 73

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
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: 07/13/2022
Next Scheduled EDR Contact: 10/24/2022
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: 07/08/2022
Next Scheduled EDR Contact: 10/17/2022
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.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/03/2022
Next Scheduled EDR Contact: 11/21/2022
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: 03/21/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
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: 07/29/2022
Next Scheduled EDR Contact: 11/14/2022
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: 08/04/2022
Next Scheduled EDR Contact: 11/14/2022
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: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 09/26/2022
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.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
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: 07/18/2022
Date Data Arrived at EDR: 07/18/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 11

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
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: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 09/12/2022
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: 07/14/2022
Next Scheduled EDR Contact: 10/31/2022
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

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 22

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 11/14/2022
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: 01/20/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 64

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/08/2022
Next Scheduled EDR Contact: 10/17/2022
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
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
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
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
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
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
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: 03/11/2022
Date Data Arrived at EDR: 03/15/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 91

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
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
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 84
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/02/2022
Next Scheduled EDR Contact: 09/12/2022
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
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
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
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/04/2022
Next Scheduled EDR Contact: 11/14/2022
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
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/23/2022
Next Scheduled EDR Contact: 10/10/2022
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
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: 12/17/2007
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.

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 Transporation, 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 Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
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: 03/31/2022
Date Data Arrived at EDR: 04/14/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 89

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
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: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
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: 07/08/2022
Next Scheduled EDR Contact: 10/17/2022
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: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
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.

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: 08/10/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 08/01/2022
Next Scheduled EDR Contact: 10/10/2022
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 1931and 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

MINES VIOLATIONS: MSHA Violation Assessment Data

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

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/22/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 3

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

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: 05/02/2022
Date Data Arrived at EDR: 05/25/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 65

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Semi-Annually

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: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
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: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
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: 03/10/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 96

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 09/19/2022
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: 05/13/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 13

Source: EPA
Telephone: (404) 562-9900
Last EDR Contact: 05/18/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 34

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/07/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ECHO: Enforcement & Compliance History Information

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

Date of Government Version: 04/02/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Quarterly

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
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 09/05/2022
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: 05/16/2022
Date Data Arrived at EDR: 05/17/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 73

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Quarterly

AIRS: Permitted Facilities Listing

A listing of Air Resources Management permits.

Date of Government Version: 04/22/2022
Date Data Arrived at EDR: 04/26/2022
Date Made Active in Reports: 07/20/2022
Number of Days to Update: 85

Source: Department of Environmental Protection
Telephone: 850-921-9558
Last EDR Contact: 07/14/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

ASBESTOS: Asbestos Notification Listing

Asbestos sites

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/17/2022
Date Made Active in Reports: 08/03/2022
Number of Days to Update: 78

Source: Department of Environmental Protection
Telephone: 850-717-9086
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

CLEANUP SITES: DEP Cleanup Sites - Contamination Locator Map Listing

This listing includes the locations of waste cleanup sites from various programs. The source of the cleanup site data includes Hazardous Waste programs, Site Investigation Section, Compliance and Enforcement Tracking, Drycleaning State Funded Cleanup Program (possibly other state funded cleanup), Storage Tank Contamination Monitoring.

Date of Government Version: 05/11/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 08/10/2022
Number of Days to Update: 78

Source: Department of Environmental Protection
Telephone: 866-282-0787
Last EDR Contact: 05/24/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Quarterly

DEDB: Ethylene Dibromide Database Results

Ethylene dibromide (EDB), a soil fumigant, that has been detected in drinking water wells. The amount found exceeds the maximum contaminant level as stated in Chapter 62-550 or 520. It is a potential threat to public health when present in drinking water.

Date of Government Version: 06/13/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 06/27/2022
Number of Days to Update: 14
Source: Department of Environmental Protection
Telephone: 850-245-8335
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Facilities

The Drycleaners database, maintained by the Department of Environmental Protection, provides information about permitted dry cleaner facilities.

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84
Source: Department of Environmental Protection
Telephone: 850-245-8927
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Semi-Annually

DWM CONTAM: DWM CONTAMINATED SITES

A listing of active or known sites. The listing includes sites that need cleanup but are not actively being working on because the agency currently does not have funding (primarily petroleum and drycleaning).

Date of Government Version: 11/30/2021
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 03/21/2022
Number of Days to Update: 76
Source: Department of Environmental Protection
Telephone: 850-245-7503
Last EDR Contact: 07/05/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

A list of hazardous waste facilities required to provide financial assurance under RCRA.

Date of Government Version: 04/03/2022
Date Data Arrived at EDR: 04/26/2022
Date Made Active in Reports: 07/14/2022
Number of Days to Update: 79
Source: Department of Environmental Protection
Telephone: 850-245-8793
Last EDR Contact: 07/25/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Semi-Annually

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities.

Date of Government Version: 04/03/2022
Date Data Arrived at EDR: 04/26/2022
Date Made Active in Reports: 07/14/2022
Number of Days to Update: 79
Source: Department of Environmental Protection
Telephone: 850-245-8743
Last EDR Contact: 07/25/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Semi-Annually

Financial Assurance 3: Financial Assurance Information Listing

A listing of financial assurance information for storage tanks sites.

Date of Government Version: 05/03/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 07/20/2022
Number of Days to Update: 76
Source: Department of Environmental Protection
Telephone: 850-245-8853
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

FL Cattle Dip. Vats: Cattle Dipping Vats

From the 1910's through the 1950's, these vats were filled with an arsenic solution for the control and eradication of the cattle fever tick. Other pesticides, such as DDT, were also widely used. By State law, all cattle, horses, mules, goats, and other susceptible animals were required to be dipped every 14 days. Under certain circumstances, the arsenic and other pesticides remaining at the site may present an environmental or public health hazard.

Date of Government Version: 09/27/2019
Date Data Arrived at EDR: 01/10/2020
Date Made Active in Reports: 02/11/2020
Number of Days to Update: 32

Source: Department of Environmental Protection
Telephone: 850-245-4444
Last EDR Contact: 07/08/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: No Update Planned

HW GEN: Hazardous Waste Generators

Small Quantity Hazardous Waste Generators are regulated under the federal Resource Conservation and Recovery Act (RCRA) and applicable state regulations as generators of hazardous wastes in quantities greater than 100 Kg but less than 1,000 Kg in any one calendar month. Large Quantity Generators of Hazardous Waste are tracked in this coverage based on their notification to the Department of Environmental Protection as to their handler status, or based on inspections conducted at their facilities. These facilities are regulated under the federal Resource Conservation and Recovery Act (RCRA) and applicable state regulations as generators of hazardous wastes in quantities equal to or greater than 1,000 Kg in any one calendar month.

Date of Government Version: 08/11/2021
Date Data Arrived at EDR: 12/17/2021
Date Made Active in Reports: 03/08/2022
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: 850-245-8758
Last EDR Contact: 06/24/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

RESP PARTY: Responsible Party Sites Listing

Open, inactive and closed responsible party sites

Date of Government Version: 03/28/2022
Date Data Arrived at EDR: 03/29/2022
Date Made Active in Reports: 06/23/2022
Number of Days to Update: 86

Source: Department of Environmental Protection
Telephone: 850-245-8758
Last EDR Contact: 06/27/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

SITE INV SITES: Site Investigation Section Sites Listing

Statewide coverage of Site Investigation Section (SIS) sites. Site Investigation is a Section within the Bureau of Waste Cleanup, Division of Waste Management. SIS provides technical support to FDEP District Waste Cleanup Programs and conducts contamination assessments throughout the state.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/17/2022
Date Made Active in Reports: 08/03/2022
Number of Days to Update: 78

Source: Department of Environmental Protection
Telephone: 850-245-8953
Last EDR Contact: 08/15/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Quarterly

TIER 2: Tier 2 Facility Listing

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

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/21/2021
Date Made Active in Reports: 09/14/2021
Number of Days to Update: 85

Source: Department of Environmental Protection
Telephone: 850-413-9970
Last EDR Contact: 06/02/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

UIC: Underground Injection Wells Database Listing

A listing of Class I wells. Class I wells are used to inject hazardous waste, nonhazardous waste, or municipal waste below the lowermost USDW.

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 04/21/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 82

Source: Department of Environmental Protection
Telephone: 850-245-8655
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

WASTEWATER: Wastewater Facility Regulation Database
Domestic and industrial wastewater facilities.

Date of Government Version: 05/02/2022
Date Data Arrived at EDR: 05/03/2022
Date Made Active in Reports: 07/20/2022
Number of Days to Update: 78
Source: Department of Environmental Protection
Telephone: 850-245-8600
Last EDR Contact: 08/01/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

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
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55
Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3
Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29
Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

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 Department of Environmental Protection in Floridia.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department of Environmental Protection
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 Department of Environmental Protection in Floridia.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank
The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Protection in Floridia.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALACHUA COUNTY:

FACILITY LIST ALACHUA: Facility List
List of all regulated facilities in Alachua County.

Date of Government Version: 03/17/2022
Date Data Arrived at EDR: 03/18/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 88
Source: Alachua County Environmental Protection Department
Telephone: 352-264-6800
Last EDR Contact: 06/15/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Annually

BROWARD COUNTY:

AST BROWARD: Aboveground Storage Tanks
Aboveground storage tank locations in Broward County.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/03/2021
Number of Days to Update: 78
Source: Broward County Environmental Protection Department
Telephone: 954-818-7509
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

UST BROWARD: Underground Storage Tanks
All known regulated storage tanks within Broward County, including those tanks that have been closed

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/03/2021
Number of Days to Update: 78
Source: Broward County Environmental Protection Department
Telephone: 954-818-7509
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

HILLSBOROUGH COUNTY:

LF HILLSBOROUGH: Hillsborough County LF
Hillsborough county landfill sites.

Date of Government Version: 04/04/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 06/29/2022
Number of Days to Update: 85
Source: Hillsborough County Environmental Protection Commission
Telephone: 813-627-2600
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

MIAMI-DADE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DADE CO AP: Air Permit Sites
Facilities that release or have a potential to release pollutants.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 08/10/2022
Number of Days to Update: 78

Source: Department of Environmental Resources Management
Telephone: 305-372-6755
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Semi-Annually

DADE CO AW: Agricultural Waste Listing
A listing of agricultural waste sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 08/10/2022
Number of Days to Update: 78

Source: Miami-Dade County Division of Environmental Resources Management
Telephone: 305-372-6715
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

DADE CO LF: Miami Dade County Landfill Solid Waste Sites listing.
Miami Dade County Landfill Solid Waste Sites listing.

Date of Government Version: 02/24/2022
Date Data Arrived at EDR: 02/24/2022
Date Made Active in Reports: 05/19/2022
Number of Days to Update: 84

Source: Miami Dade County Environmental Resources Management
Telephone: 305-372-6789
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

DADE CO LW: Liquid Waste Transporter List
The Liquid Waste Transporter permit regulates the transportation of various types of liquid and solid waste, including hazardous waste, waste oil and oily waste waters, septic and grease trap waste, biomedical waste, spent radiator fluid, photo chemical waste, dry sewage sludge, and other types of non-hazardous industrial waste. The Liquid Waste Transporter permits needed to protect the environment and the public from improperly handled and transported waste.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 08/10/2022
Number of Days to Update: 78

Source: DERM
Telephone: 305-372-6755
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Quarterly

DADE GTO: Grease Trap Sites
Any non-residential facility that discharges waste to a sanitary sewer.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 08/10/2022
Number of Days to Update: 78

Source: Dade County Dept. of Env. Resources Mgmt.
Telephone: 305-372-6508
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Semi-Annually

DADE MOP: Marine Facilities Operating Permit
What is this permit used for? Miami-Dade County Ordinance 89-104 and Section 24-18 of the Code of Miami-Dade County require the following types of marine facilities to obtain annual operating permits from DERM: All recreational boat docking facilities with ten (10) or more boat slips, moorings, davit spaces, and vessel tie-up spaces.
All boat storage facilities contiguous to tidal waters in Miami-Dade County with ten (10) or more dry storage spaces including boatyards and boat manufacturing facilities.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 08/10/2022
Number of Days to Update: 78

Source: DERM
Telephone: 305-372-3576
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Quarterly

DADE MRE: Maimi River Enforcement

The Miami River Enforcement database files were created for facilities and in some instances vessels that were inspected by a workgroup within the Department that was identified as the Miami River Enforcement Group. The files do not all necessarily reflect enforcement cases and some were created for locations that were permitted by other Sections within the Department.

Date of Government Version: 06/05/2013
Date Data Arrived at EDR: 06/06/2013
Date Made Active in Reports: 08/06/2013
Number of Days to Update: 61

Source: DERM
Telephone: 305-372-3576
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Quarterly

DADE_IW2_4: Industrial Waste Type 2-4 Sites

IW2s are facilities having reclaim or recycling systems with no discharges, aboveground holding tanks or spill prevention and countermeasure plans. IW4s are facilities that discharge an effluent to the ground.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 08/10/2022
Number of Days to Update: 78

Source: Department of Environmental Resources Management
Telephone: 305-372-6700
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Semi-Annually

DADE_IW5: Industrial Waste Type 5 Sites

Generally these facilities fall under the category of "conditionally exempt small quantity generator" or "small quantity generator".

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 08/10/2022
Number of Days to Update: 78

Source: Department of Environmental Resources Management
Telephone: 305-372-6700
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Semi-Annually

DADE_IW6: Industrial Waste Type 6

Permits issued to those non-residential land uses located within the major drinking water wellfield protection areas that are not served by sanitary sewers. These facilities do not handle hazardous materials but are regulated because of the env. sensitivity of the areas where they are located.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 08/10/2022
Number of Days to Update: 78

Source: Department of Environmental Resources Management
Telephone: 305-372-6700
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Semi-Annually

DADE_IWP: Industrial Waste Permit Sites

Facilities that either generate more than 25,000 of wastewater per day to sanitary sewers or are pre-defined by EPA.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 08/10/2022
Number of Days to Update: 78

Source: Department of Environmental Resources Management
Telephone: 305-372-6700
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Semi-Annually

ENF: Enforcement Case Tracking System Sites

Enforcement cases monitored by the Dade County Department of Environmental Resources Management.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 08/10/2022
Number of Days to Update: 78

Source: Department of Environmental Resources Management
Telephone: 305-372-6755
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Semi-Annually

SPILLS DADE: Fuel Spills Cases
DERM documents fuel spills of sites that are not in a state program.

Date of Government Version: 01/08/2009
Date Data Arrived at EDR: 01/13/2009
Date Made Active in Reports: 02/05/2009
Number of Days to Update: 23

Source: Department of Environmental Resources Management
Telephone: 305-372-6755
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Semi-Annually

UST DADE: Storage Tanks
A listing of aboveground and underground storage tank site locations.

Date of Government Version: 05/10/2020
Date Data Arrived at EDR: 08/19/2021
Date Made Active in Reports: 11/12/2021
Number of Days to Update: 85

Source: Department of Environmental Resource Management
Telephone: 305-372-6700
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Semi-Annually

PALM BEACH COUNTY:

LF PALM BEACH: Palm Beach County LF
Palm Beach County Inventory of Solid Waste Sites.

Date of Government Version: 09/01/2011
Date Data Arrived at EDR: 09/20/2011
Date Made Active in Reports: 10/10/2011
Number of Days to Update: 20

Source: Palm Beach County Solid Waste Authority
Telephone: 561-640-4000
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/19/2022
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: 05/08/2022
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 80

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/08/2022
Next Scheduled EDR Contact: 11/21/2022
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: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Annually

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: 07/29/2022
Next Scheduled EDR Contact: 11/07/2022
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: 07/06/2022
Next Scheduled EDR Contact: 10/24/2022
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: 08/10/2022
Next Scheduled EDR Contact: 11/28/2022
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: 06/03/2022
Next Scheduled EDR Contact: 09/19/2022
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.

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: Department of Children & Families
Source: Provider Information
Telephone: 850-488-4900

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 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Environmental Protection
Telephone: 850-245-8238

STREET AND ADDRESS INFORMATION