

Contamination Technical Memorandum

Florida Department of Transportation
District 1

US 41 and Bonita Beach Road PD&E Study

Lee County, Florida

FPID No.: 444321-1-22-01

ETDM No.: 6291

February 2024

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.

TABLE OF CONTENTS

SECTION	Page
1.0 Project Description	1-1
2.0 Methodology	2-1
3.0 Project Impacts	3-1
4.0 Conclusions and Recommendations	4-1
Appendix A	Contamination Site Map
Appendix B	Aerial Photographs
Appendix C	Topographic Maps
Appendix D	Environmental Database Report
Appendix E	Supplemental Information

1.0 Project Description

The Florida Department of Transportation (FDOT) District 1 is facilitating engineering services for drainage improvements that are part of the US 41 and Bonita Beach Road Project Development and Environment (PD&E) Study. This report supports an evaluation of potential stormwater retention sites identified in the Pond Siting Report. Contamination sites along the mainline are not addressed in this report and will be provided under separate cover. Drainage improvements will include expanding the existing FDOT Stormwater Pond North drainage site by acquiring three west adjoining parcels owned by the City of Bonita Springs. Drainage improvements also include the construction of Pond West within the northwest quadrant of US 41 and Bonita Beach Road intersection. Two drainage alternatives: a swale option (Pond East Alternative 1) and an offsite pond option (Pond East Alternative 2) are also included in the drainage improvement efforts. In total, four ponds have been evaluated (existing Pond North is not evaluated since it has already been constructed).

The purpose of this report is to support the design and engineering study by presenting the findings of a contamination screening evaluation. This report identifies and evaluates known or potential contamination sites within or adjacent to the ponds that may affect their construction. The report also presents recommendations for supplemental assessment, when necessary. The study was performed in general accordance with the FDOT PD&E Manual (July 1, 2023). The study area for the contamination screening was defined as each pond site and a search buffer that extends to ½ mile.

Based on the methodologies completed for this study, the following risk ratings were applied to the four drainage sites:

- Pond West – Medium risk rating,
- Pond North Expansion – Low risk rating,
- Pond East Alternative 1 – High risk rating, and
- Pond East Alternative 2 – Low risk rating.

In accordance with the PD&E Manual, ponds rated Medium or High should be further evaluated through the completion of Level II testing. No further action is warranted for ponds that are assigned No or Low risk ratings.

2.0 Methodology

A contamination screening was conducted to identify contamination issues from properties or operations located within the study area. This evaluation consisted of the following tasks:

- Tierra drafted a Site Contamination Map (**Appendix A**) using data acquired by Environmental Data Management, Inc. (EDM) to illustrate the locations of the contamination sites with respect to the drainage sites.
- Aerial photographs were reviewed to develop a history of the previous land uses within the study area and to identify sites which may have historical uses that pose contamination concerns. Aerial photographs dated 1944, 1958, 1968, 1975, 1986, 1996, 2005, 2014, and 2020 were provided by EDM. Google Earth images dated 1999, 2003, 2006-2010, 2012-2014, 2016, 2017, and 2019-2023 were reviewed where data gaps were evident in the aerials provided by EDM. Relevant historical information is discussed in **Section 3.0**. Copies of the historical aerial photographs are presented in **Appendix B**.
- USGS topographic maps were reviewed to develop a history of the previous land uses within the study area and to identify sites which may have historical uses that pose contamination concerns. USGS topographic maps dated 1958, 1972, 1987, and 1991 were provided by EDM. Relevant historical information is discussed in **Section 3.0**. A copy of the historical topographic maps is included in **Appendix C**.
- An environmental database search using EDM was conducted on September 7, 2023, to identify sites, facilities, or listings within the study area associated with documented or suspected petroleum contamination or other hazardous materials. The EDM report is used as a preliminary screening tool to identify facilities that are registered with various county, state, and federal agencies. The regulatory review of federal and state environmental records utilizes an integrated geographic information system database. The database report provides geocoded and non-geocoded regulatory listings of interest that are identified within the study area. Each listing is located by address, facility identification number, and field verified where possible. All are reviewed for the potential of contamination to impact the project. The reviewed records include information compiled by the United States Environmental Protection Agency (EPA), the Florida Department of Environmental Protection (FDEP), and other various reporting programs. A complete list of all regulatory databases searched is included in the EDM report (**Appendix D**). The facilities identified in the EDM report are discussed in **Section 3.0**. Each database was searched to a distance of ½ mile from the boundary of each drainage site.

- Supplemental regulatory research using the FDEP MapDirect, OCULUS, and STCM databases was performed to provide additional details about each site identified in EDM's report. Documents were reviewed to determine details such as groundwater depth and flow direction, storage tank contents, discharges, spills, contaminant concentrations, and plume locations (**Appendix E**).
- Information found on the Lee County Property Appraiser database was reviewed for suspect contamination sites where other resources may not have provided ample information for a particular site; or to determine addresses, parcel boundaries, and other pertinent information.
- Assigned risk ratings for each contamination site after evaluating the findings produced by the previously mentioned methodologies. The rating system defined in the FDOT PD&E Manual is divided into four categories of risk which express the degree of concern for contamination problems. The four degrees of risk ratings are “No,” “Low,” “Medium,” and “High” and are defined as follows:
 - No Risk Site: 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 indicate that contamination impacts are not expected.
 - Low Risk Site: 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 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 screening process, it is not likely that there would be any contamination impacts to the project.
 - Medium Risk Site: 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 Risk Site: 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 right-of-way acquisition, or have other potential transfer of contamination related liability.

- FDOT District 1 requests all sites within 500 feet of the ROW identified that are present on the on the FDEP's Contamination Locator Map (CLM) as having an "open/active" discharge be assigned a risk rating of Medium or High due to those facility's potential to affect at least the permitting for National Pollutant Discharge Elimination Systems (NPDES) dewatering activities.

3.0 Project Impacts

Based on the research methodologies, risk ratings were assigned to four drainage sites. Table 1 provides risk ratings for each drainage site. The location of each contamination/drainage site is illustrated in **Appendix A**. Aerial photographs provided by EDM are available in **Appendix B**. Topographic maps provided by EDM are available in **Appendix C**. EDM’s report is available in **Appendix D**. Supplemental files from the FDEP OCULUS database and Map Direct are available in **Appendix E**.

TABLE 1			
Drainage Sites	Contaminants of Concern	Risk Rating	Comments
Pond West	Petroleum Hazardous materials	Medium	<p>Aerial photographs (Appendix B) depicted Pond West as woods from 1944 to 1986. Development was depicted in 1996. Tuffy Tire & Auto Service was depicted from 1999 to 2023 within Pond West. Topographic maps (Appendix C) depicted Pond West as shaded green indicating “woods” from 1958 to 1972. A purple shaded rectangle within Pond West indicating “recent development” was depicted from 1987 to 1991.</p> <p>Two nearby facilities were identified as possible sources of contamination that could potentially impact the Pond West drainage site.</p> <p>Tuffy Tire & Auto Service Center (Map ID 3) 27790 South Tamiami Trail, Bonita Springs, FL 34134: Google Earth Aerial View dated 2023 identified this facility as an operational auto service center that offers alignment, exhaust, brake, and a/c services within the footprint of Pond West. This facility was not identified in EDM’s report. One Aboveground Storage Tank (AST) was observed within proposed Pond West in Google Streetview Imagery dated 2019. The tank volume, and contents are unknown. AST’s with a tank size of 550-gallons or more are required to be registered with the FDEP. The AST observed in the 2019 Google Earth Streetview appears to be in the range of 400 to 500-gallons in size. The AST is on a concrete pad and under an aluminum canopy. No rusting or indicators of contamination were observed in the 2019 Streetview image. Typically, auto repair facilities are Small Quantity Generators (SQGs) of hazardous waste (100-1,000 kg/month) and are considered a low risk. Seven hydraulic lifts were observed in the 2019 Streetview Imagery within Pond West. Given that the hydraulic lifts are installed within the ground, there is a possibility of encountering contamination during site demolition activities/removal of the hydraulic lifts. Other hazardous materials may be stored onsite in small quantities such as waste oil, brake fluids, and freon.</p> <p>Bonita Boat Center (Map ID 4) 27760 South Tamiami Trail, Bonita Springs, FL 34134: Google Earth Aerial View dated 2023, and Streetview Imagery dated 2019, identified this facility as an operational marine/boat dealer and service/repair center adjoining north of Pond West. This facility was not identified in EDM’s report. No FDEP OCULUS regulatory files were found. No ASTs or possible fuel sources were observed at this facility. Contamination concerns are not anticipated for this facility.</p> <p>Risk Rating: Given the proposed pond site has operated as an auto repair shop with an AST and hydraulic lifts, this drainage site is assigned a risk rating of Medium.</p>

TABLE 1

Drainage Sites	Contaminants of Concern	Risk Rating	Comments
Pond North Expansion	Petroleum Hazardous materials	Low	<p>Aerial photographs (Appendix B) depicted Pond North Expansion as woods from 1944 to 2023. One structure (Advance Auto Parts Map ID 5) was depicted within and adjoining the southwest corner of Pond North Expansion footprint from 1986 to 2023. Topographic maps (Appendix C) depicted Pond North Expansion as shaded green indicating “woods” and a solid blue line indicating “stream” from 1958 to 1991.</p> <p>One onsite facility was identified as a possible source of contamination that could impact the Pond North Expansion drainage site.</p> <p>Advance Auto Parts (Map ID 5) 27791 South Tamiami Trail, Bonita Springs, FL 34134: Google Earth Aerial View dated 2023 identified this facility as an operational auto parts store within and adjoining southwest of the Pond North Expansion footprint. This facility was not identified in EDM’s report. Typically, retail auto parts stores are SQGs of hazardous waste (100-1,000 kg/month). These facilities store hazardous materials and petroleum products on impermeable surfaces such as concrete and are not used onsite. Therefore, auto parts facilities are typically considered a low risk. Google Earth Street View Imagery dated 2020 depicted this facility as an Advance Auto Parts retail store with no service bays and no petroleum storage tanks. Hazardous materials such as oil, brake fluids, and freon may be stored and sold onsite in small quantities. Contamination impacts are not anticipated at this facility.</p> <p>One offsite facility was identified as a possible source of contamination that could impact the Pond North Expansion drainage site.</p> <p>Tuffy Tire & Auto Service Center (Map ID 3) 27790 South Tamiami Trail, Bonita Springs, FL 34134: Google Earth Aerial View dated 2023 identified this facility as an operational auto service center that offers alignment, exhaust, brake, and air conditioning services. This facility was not identified in EDM’s report. One AST was observed 440 feet adjacent southwest of Pond North Expansion in Google Streetview Imagery dated 2019. The tank volume, and contents are unknown. The AST is on a concrete pad and under an aluminum canopy. No rusting or indicators of contamination were observed in the 2019 Streetview image. No discharges were reported. Seven hydraulic lifts were observed 360 feet adjacent southwest in the 2019 Streetview Imagery. Other hazardous materials may be stored onsite in small quantities such as waste oil, brake fluids, and freon. However, given the separation distance of over 350 feet, contamination impacts associated with this facility are not anticipated.</p> <p>Risk Rating: Given the low risk of contamination concerns for the onsite facility (Map ID 5), this drainage site is assigned a risk rating of Low.</p>

TABLE 1

Drainage Sites	Contaminants of Concern	Risk Rating	Comments
Pond East (Alternative 1)	Petroleum	High	<p>Aerial photographs (Appendix B) depicted Pond East (Alternative 1) as woods and grassy fields from 1944 to 1975. A single structure was depicted centrally in 1975. BP-Bonita-Oleum Corp (Map ID 1) retail gas station was depicted in 1986 within and adjoining southwest. Map ID 1 was not depicted from 1996 to 2023. The central and eastern portions of Pond East (Alternative 1) are depicted as woods from 1975 to 2023. Little to no changes were depicted from 1996 to 2023. Topographic maps (Appendix C) depicted shaded beige indicating “grassy fields/developed” from 1958 to 1991. Purple shaded rectangles adjacent southwest indicating “recent development” was depicted from 1987 to 1991.</p> <p>Two regulated nearby facilities were identified as possible sources for contamination that could impact Pond East (Alternative 1) drainage site.</p> <p>BP-Bonita-Oleum Corp (Map ID 1) 9021 Bonita Beach Road, Bonita Springs, FL 33923-4213 Facility ID: 8520618: EDM’s report (Appendix D) identified this closed former retail gas station with eight former Underground Storage Tanks (USTs). Four 10,000-gallon (two unleaded gasoline, one leaded gasoline, and one diesel), three 10,152-gallon (one unleaded gasoline, one leaded gasoline, and one diesel), and one 12,000-gallon unleaded gasoline USTs previously existed at this facility. UST removal activities occurred in November 1988 and September 1994. One discharge was reported on November 17, 1994. FDEP OCULUS files (Appendix E) provided a Template Site Assessment Report dated January 2, 2018, stating demolition occurred in 1994. The former UST tank farm was located near the northeast corner of the property. A Discharge Reporting Form (DRF) was filed after elevated soil vapor readings were encountered during UST removal activities. A 1995 Site Closure Report indicated 400 tons of contaminated soil were removed for thermal treatment. Groundwater impacts were not included in the 1995 Site Closure Report. Groundwater sampling between January and March 1995 discovered exceedances in petroleum hydrocarbons and lead concentrations above their established Groundwater Cleanup Target Levels (GCTLs). Benzene was also detected above its established GCTLs in the deep well (MW-9D) which is screened from 19 to 24 feet below land surface (bls). No Remedial Action Plan (RAP) has been prepared. No other source removal activities have been reported at this site other than UST closure/removal activities. Funding was not available for this facility in 1996. No remediation activities occurred at this facility from 1996 to 2014. In 2015, funding was made available to investigate the extent of the 1994 discharge. Between January and November 2017, soil assessment activities occurred. Laboratory results depicted exceedances in petroleum hydrocarbons in soil borings collected between 0 and 5.5 feet bls. Between February and November 2017, eleven shallow monitoring wells (maximum depth at 12 feet bls), and three deep monitoring wells (maximum depths ranging from 25 to 30 feet bls) were installed. Laboratory results indicated exceedances in GCTLs for benzene, methyl-tert-butyl-ether (MTBE), 1-methylnaphthalene, and 2-methylnaphthalene. Laboratory results also indicated exceedances above their established Natural Attenuation Default Source Concentrations (NADCs) for naphthalene, toluene, ethylbenzene, total xylenes, and Total Recoverable Hydrocarbons (TRPHs). No exceedances in GCTLs or NADCs were detected in any of the deeper monitoring wells. Shallow dissolved hydrocarbon maps dated February 13 and December 1, 2017 depicted the extent of contamination within and adjoining southeast of the Pond East (Alternative 1). Groundwater flow was depicted cross gradient from the Pond East (Alternative 1) flowing west on February 13, 2017. Groundwater flow was depicted flowing northwest toward Pond East (Alternative 1) on August 14, 2017. Groundwater flow was also depicted flowing north towards Pond East (Alternative 1). Due to NADC exceedances in the groundwater, remediation by natural attenuation was not recommended. No subsequent files were available. Contamination impacts at Pond East (Alternative 1) are anticipated due to unresolved contamination issues.</p> <p>Sunshine Dry Cleaners (Map ID 2) 9048 Bonita Beach Road, Bonita Springs, FL 33923 Facility ID: 9801967: The FDEP Map Direct database identified this facility as a former dry cleaner. FDEP Storage Tanks & Contamination Monitoring database stated a tetrachloroethylene AST was removed from site on an unknown date. No discharges have been reported. No regulatory information related to soil and groundwater testing is available. This former dry cleaning facility was not found in the FDEP’s Dry Cleaning Solvent Cleanup Database. The former dry cleaner facility operated adjacent 450 feet northwest of Pond East (Alternative 1). Dry cleaning solvents are denser than water and tend to sink to greater depths in comparison to petroleum related contaminants. Because of this characteristic, any groundwater contamination would be found beyond the anticipated zone of construction. Contamination impacts regarding the former dry cleaner facility are not anticipated.</p> <p>Spring Fresh Dry Cleaners (Map ID 6) 8951 Bonita Beach Road Suite 21D Bonita Springs, FL 33923 Facility IDs: 50410, 9502316, ERIC_4849, ERIC_11227, 9502316: EDM’s report (Appendix D) identified this facility in its proximal records search (Site 1A, but this report will refer to it as Map ID 6) as a former dry cleaning facility 520 feet southwest of the Pond East (Alternative 1). This facility was identified in the FDEP’s Drycleaning Solvent Cleanup Priority Ranking list. FDEP OCULUS files (Appendix E) dated May 23, 2016, state this former drycleaning facility was located in Unit 210 from the 1980s to the 1990s (extreme northwest corner of building). The facility was enrolled in the FDEP’s Voluntary Cleanup Program. The FDEP approved a RAP in June 1999. RAP activities included source removal of the unsaturated soils beneath and in the rear of the facility. RAP activities also included biosparging to accelerate the natural attenuation of contaminants. Groundwater monitoring wells were also installed. RAP activities ceased in March 2004. No subsequent field activities occurred from 2005 to 2014. Groundwater testing performed in 2015 yielded a slight exceedance in bromodichloromethane in MW-9 (660 feet west/southwest of Pond East (Alternative 1)), a slight exceedance in vinyl chlorides (VCs) in CW-1 and CW-2 (both 660 feet southeast of Pond East (Alternative 1)). Other contaminants were identified but were below their established GCTLs. Well over-purging activities occurred at wells CW-1, CW-2, and MW-9 for remediation benefits. A total of 275-gallons were purged from CW-1, 55-gallons were purged from CW-2, and 165-gallons were purged from MW-9. A second round of groundwater sampling occurred December 10, 2015, and revealed a slight exceedance in GCTLs in VCs for CW-2. The most recent round of groundwater sampling occurred March 10, 2016, and yielded slight exceedances in VCs for CW-1 and CW-2. No NFA or SRCO was issued by the FDEP. The location of the nearest contaminated wells (CW-1 and CW-2) are 660 feet southwest of Pond East (Alternative 1) footprint. Although the plume associated with the former drycleaning facility parcel has not been fully defined, contamination impacts are not anticipated since dry cleaning solvents are denser than water and tend to sink to greater depths in comparison to petroleum related contaminants. Therefore, contamination impacts regarding the former dry cleaner facility are not anticipated.</p> <p>Risk Rating: Given the existence of residual petroleum contamination in both the soil and shallow groundwater monitoring wells within and adjoining southwest of Pond East (Alternative 1) related to the BP-Bonita-Oleum Corp, this drainage site is assigned a risk rating of High.</p>

TABLE 1

Drainage Sites	Contaminants of Concern	Risk Rating	Comments
Pond East (Alternative 2)	Petroleum	Low	<p>Aerial photographs (Appendix B) depicted Pond East (Alternative 2) as woods with trails from 1944 to 2023. Topographic maps (Appendix C) depicted Pond East (Alternative 2) as shaded beige indicating “grassy fields/developed” from 1958 to 1991.</p> <p>One regulated nearby facility was identified by the EDM as a possible source for contamination that could impact Pond East (Alternative 2) drainage site.</p> <p>BP-Bonita-Oleum Corp (Map ID 1) 9021 Bonita Beach Road, Bonita Springs, FL 33923-4213 Facility ID: 8520618: EDM’s report (Appendix D) identified this closed former retail gas station 460 feet west of Pond East (Alternative 2). Although contamination is documented on-site, a shallow dissolved hydrocarbon map dated February 13 and December 1, 2017, depicts the extent of contamination approximately 460 feet west of from Pond East (Alternative 2). Soil contamination has not been documented off-site from the former gas station.</p> <p>Risk Rating: Given a separation distance of 460 feet west of Pond East (Alternative 2) between the former retail gas station facility, and the contaminants of concern remaining confined to the former facility, this drainage site is assigned a risk rating of Low.</p>

4.0 Conclusions and Recommendations

Tierra has reviewed various regulatory databases, historical aerial photographs, topographic maps, and file information to identify contamination involvement within the study area. Based on the research methodologies, risk ratings were assigned in accordance with the FDOT contamination rating system. A summary of the assigned risk ratings for each drainage site is provided below.

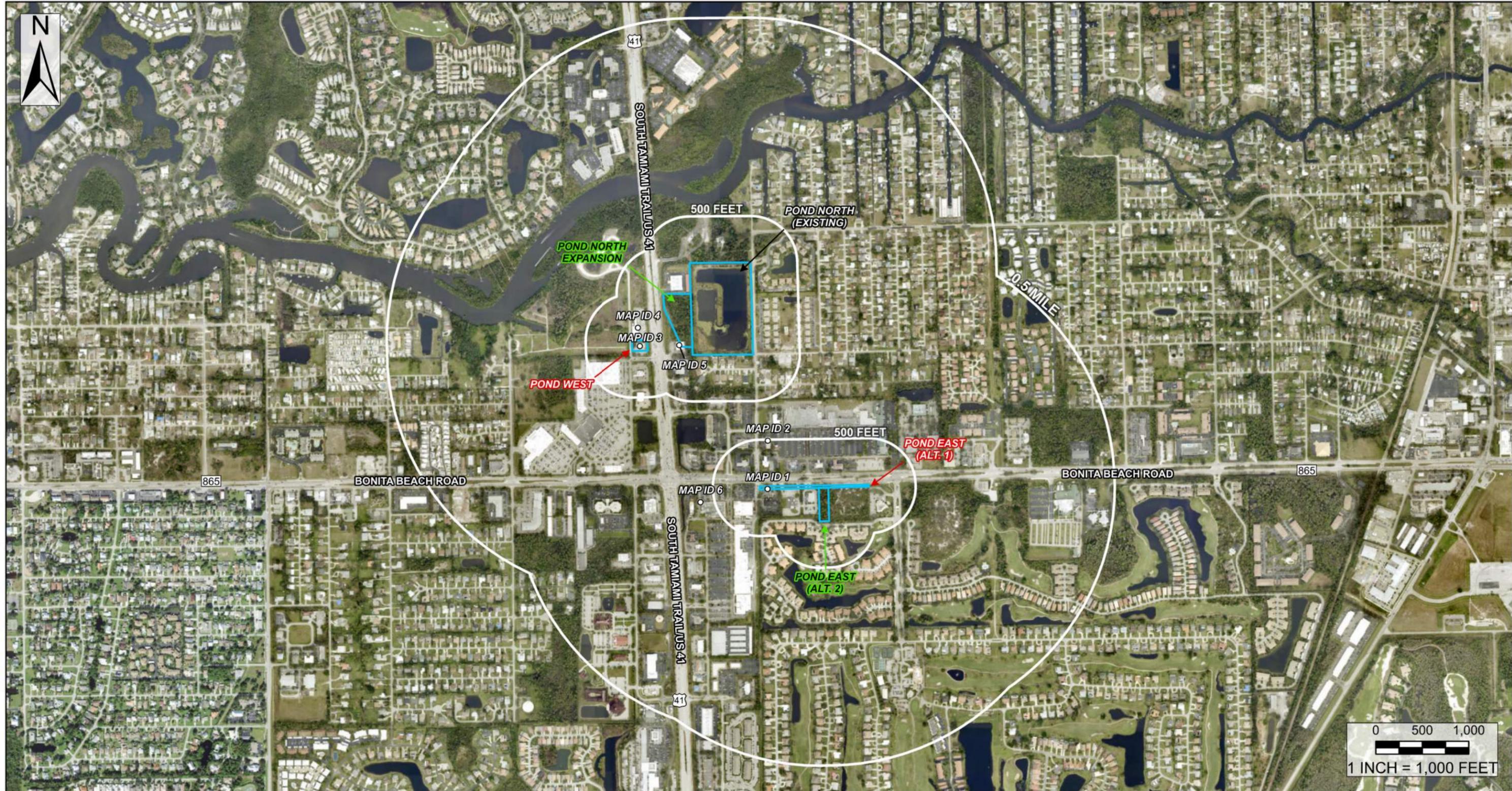
Table 2: Risk Rating Summary – Drainage Sites	
Name	Risk Rating
Pond West	Medium
Pond North Expansion	Low
Pond East (Alternative 1)	High
Pond East (Alternative 2)	Low

Based on the conclusions of this study and the risk ratings noted above, the following recommendations are made.

- 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 roadway construction. Generally, contamination reports older than one year should be updated with current information. If the design is altered or changed in any way, this report should be reviewed and modified as necessary.
- For the locations rated No or Low for contamination, no further action is required. These locations have been determined not to have any contamination risk to the study area at this time.
- One Medium rated drainage site (Pond West) was rated as such due to the proximity of an active Tuffy Tire & Auto Service Center (**Map ID 3**) identified within its footprint. The risk rating is assigned due to business operations (auto repair), in-ground hydraulic lifts, and petroleum storage. Level II testing can include hazardous material surveys, soil borings, monitoring well installation, soil and groundwater sampling, and laboratory testing. Level II testing will be performed by the Department, if this pond is selected for final design. Results of the contamination testing should be noted in the final plans so that the contractor is informed of contamination issues on the project. Level II testing costs are estimated at \$2,000 to \$10,000 per site.

- One High rated drainage site (Pond East (Alternative 1)) was rated as such due to the proximity of a former BP-Bonita-Oleum Corp (**Map ID 1**) retail gas station identified within and adjoining southwest of Pond East (Alternative 1). **Map ID 1** has documented soil and groundwater contamination within the western portion of the Pond East (Alternative 1) drainage site. No onsite remediation has occurred, and no Site Rehabilitation Completion Order has been issued. Level II testing can include hazardous material surveys, soil borings, monitoring well installation, soil and groundwater sampling, and laboratory testing. Level II testing will be performed by the Department, if this pond is selected for final design. Results of the contamination testing should be noted in the final plans so that the contractor is informed of contamination issues on the project. Level II testing costs are estimated at \$2,000 to \$10,000 per site.
- Once final design plans are available, additional review is recommended in consideration of dewatering operations that may be necessary under the *National Pollutant Discharge Elimination System Generic Permit for Stormwater Discharges from Large and Small Construction Activities*. Verification testing may be warranted for contamination issues within 500 feet of the dewatering area.

APPENDIX A – SITE CONTAMINATION MAP



Drainage Site Map

US 41 and Bonita Beach Road PD&E Study

District One - Lee County, Florida
 Tierra Project No.: 6511-19-135E

University of South Florida, County of Collier, County of Lee, FL, FDEP, Esri, TomTom, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Lee County, FL, State of Florida, Maxar

LEGEND	
	POND SITES
POND NAME	NO/LOW RATED POND SITES
POND NAME	MEDIUM/HIGH RATED POND SITES

APPENDIX B – AERIAL PHOTOGRAPHS

Historical Aerial Photograph Report

Subject Property:

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

Prepared For:

Tierra Inc
7351 Temple Terrace Hwy
Tampa, FL 33637

Prepared By:



Environmental Data Management, Inc.
2840 West Bay Drive, Suite 208
Belleair Bluffs, Florida 33770

September 6, 2023



Environmental Data Management, Inc.
2840 West Bay Drive, Suite 208
Belleair Bluffs, Florida 33770
(727) 586-1700
<http://www.edm-net.com>

September 6, 2023

Collin Duncan
Tierra Inc
7351 Temple Terrace Hwy
Tampa, FL 33637

Subject: **Historical Aerial Photos-- EDM Project #: 26655**
Client Project# 444321-1-22-01

Dear Mr. Duncan:

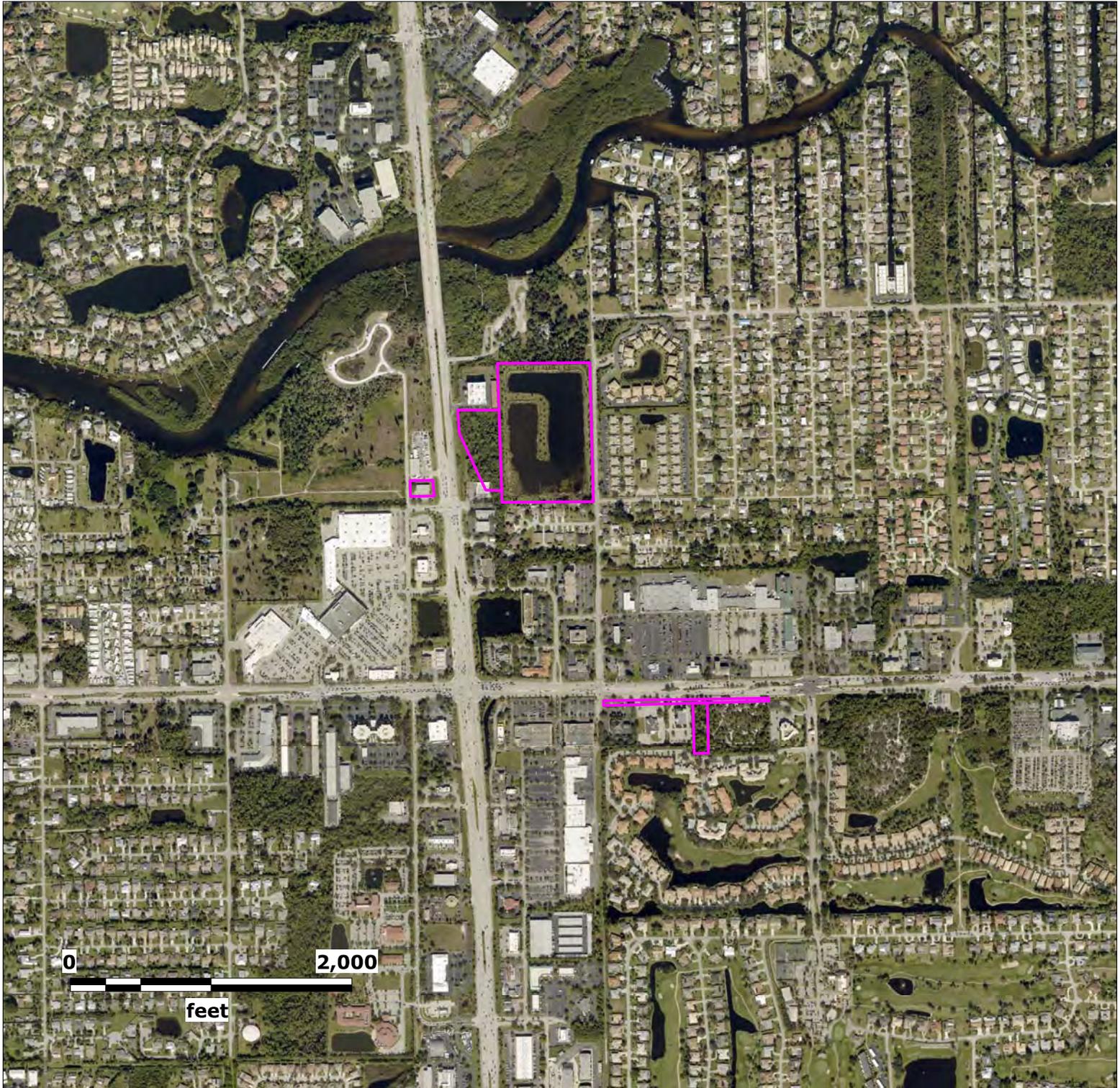
Thank you for choosing Environmental Data Management, Inc. The following report contains a series of Historical Aerial Photographic images for the following location:

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

These images were selected to provide you with an aerial photographic record of this location at approximate ten year intervals and/or one photograph per decade, where available.

Should you have any questions regarding this report or our service, please feel free to contact us. We appreciate the opportunity to be of service to you and look forward to working with you in the future.

ENVIRONMENTAL DATA MANAGEMENT, INC.



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

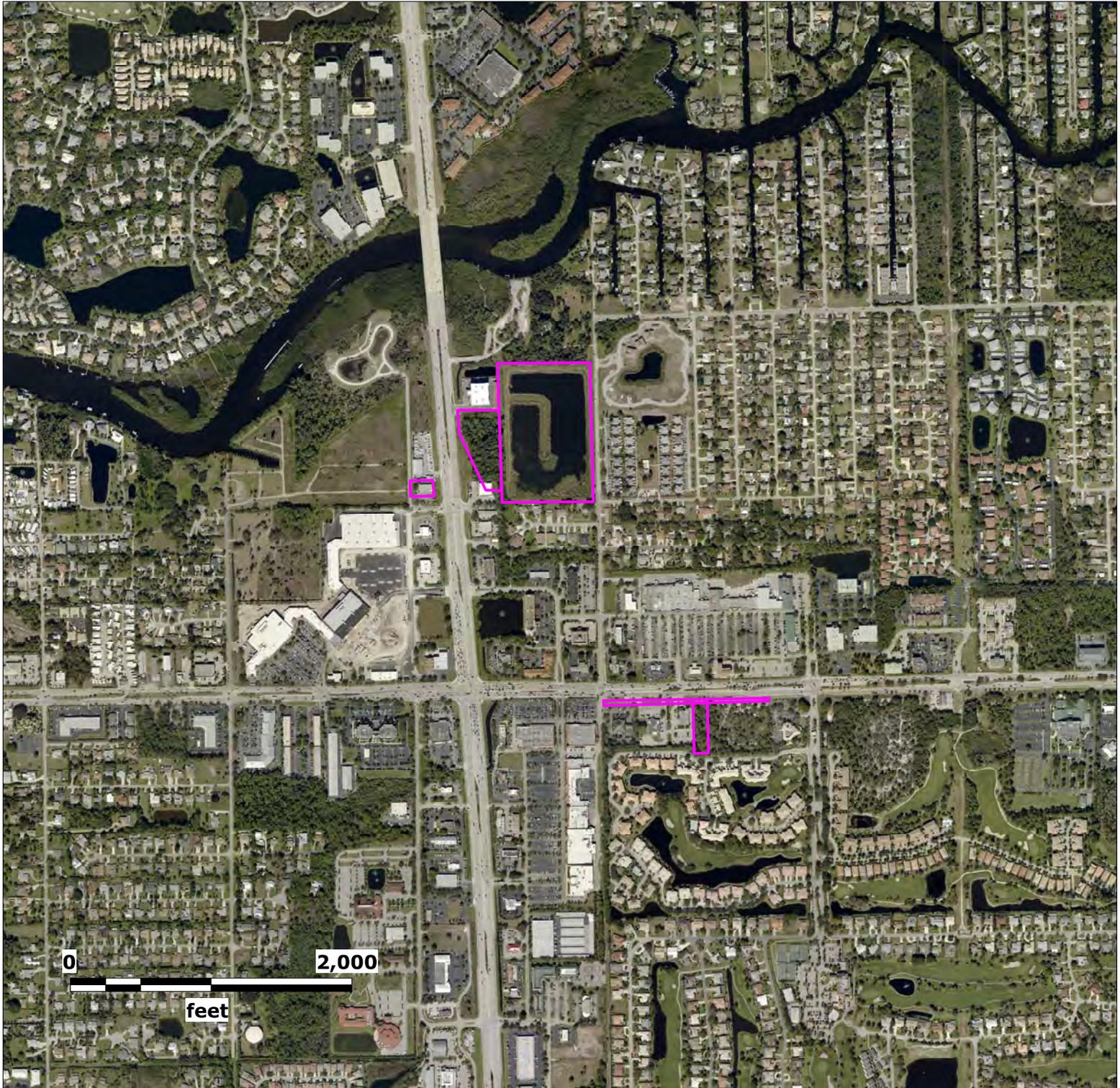
Subject Property

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

Lat (DMS): 26 20' 13.4052"
Lon (DMS): -81 48' 11.5524"

EDM Job No: 26655
September 6, 2023

 Approximate Site Location



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

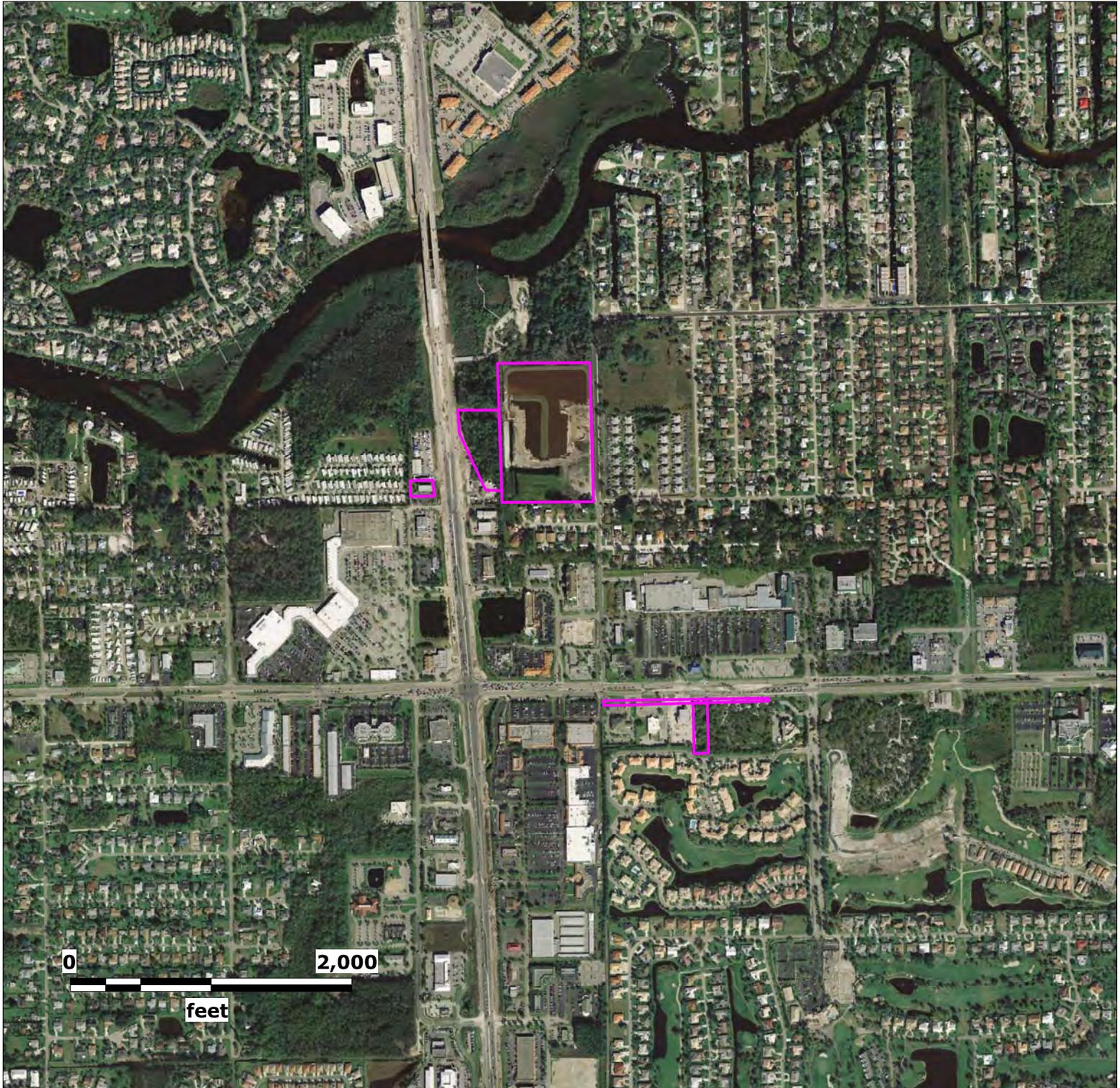
Subject Property

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

Lat (DMS): 26 20' 13.4052"
Lon (DMS): -81 48' 11.5524"

EDM Job No: 26655
September 6, 2023

 Approximate Site Location



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

Subject Property

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

Lat (DMS): 26 20' 13.4052"
Lon (DMS): -81 48' 11.5524"

EDM Job No: 26655
September 6, 2023

 Approximate Site Location



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

Subject Property

 Approximate Site Location

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

Lat (DMS): 26 20' 13.4052"
Lon (DMS): -81 48' 11.5524"

EDM Job No: 26655
September 6, 2023



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

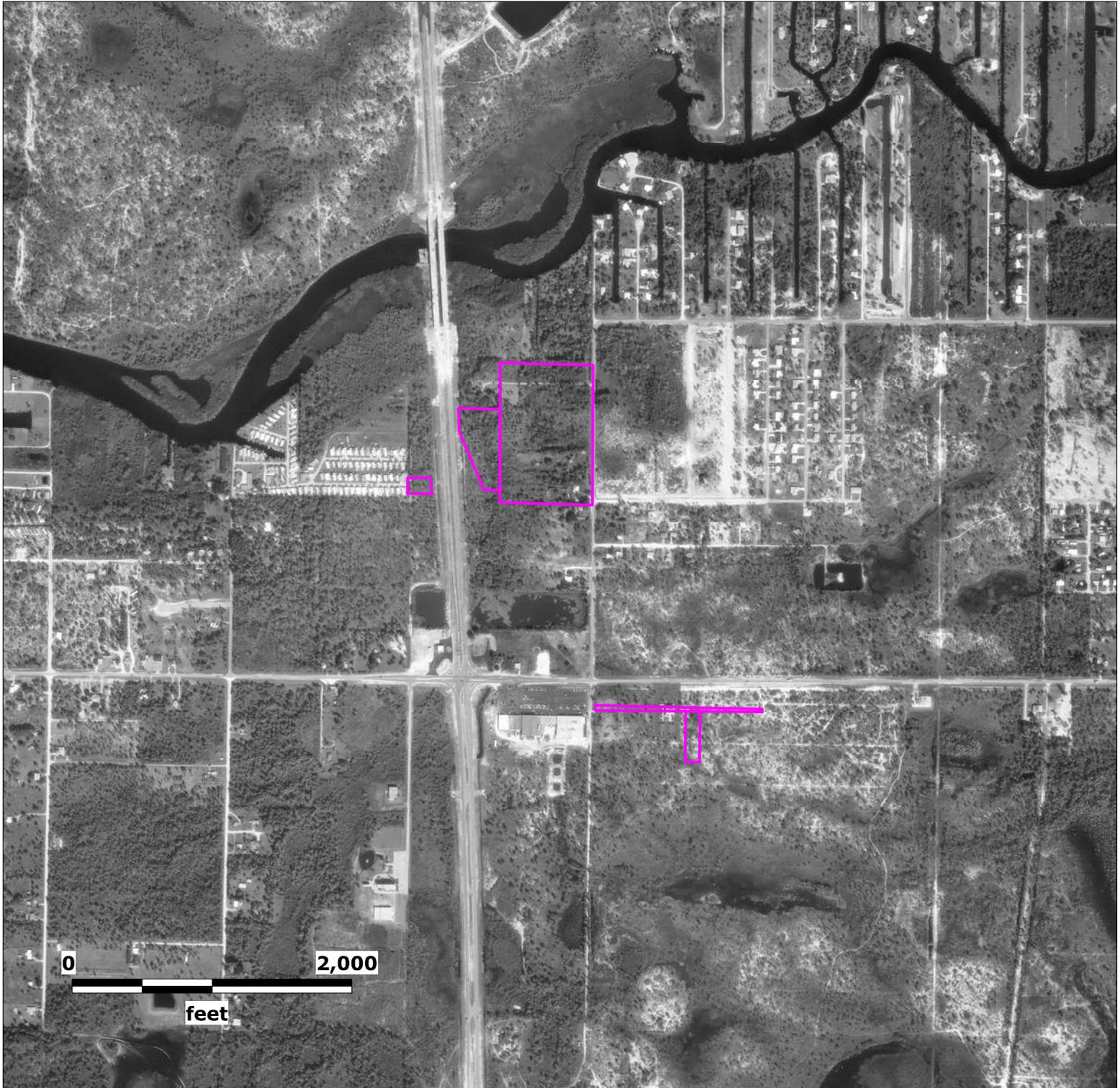
Subject Property

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

Lat (DMS): 26 20' 13.4052"
Lon (DMS): -81 48' 11.5524"

EDM Job No: 26655
September 6, 2023

 Approximate Site Location



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

Subject Property

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

Lat (DMS): 26 20' 13.4052"
Lon (DMS): -81 48' 11.5524"

EDM Job No: 26655
September 6, 2023

 Approximate Site Location



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

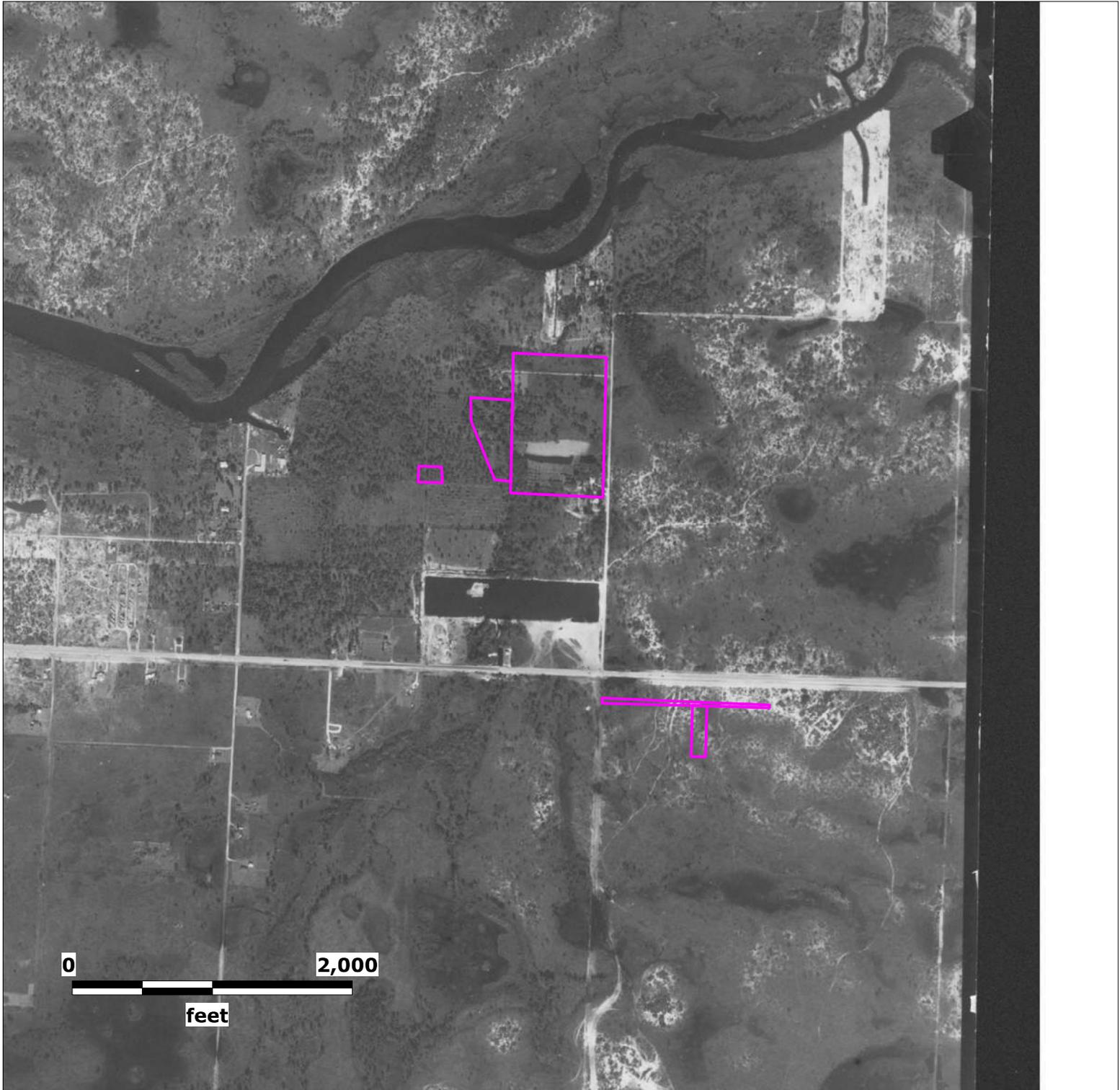
Subject Property

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

Lat (DMS): 26 20' 13.4052"
Lon (DMS): -81 48' 11.5524"

EDM Job No: 26655
September 6, 2023

 Approximate Site Location



Source: University of Florida

Map Scale and Property Boundaries are Approximate

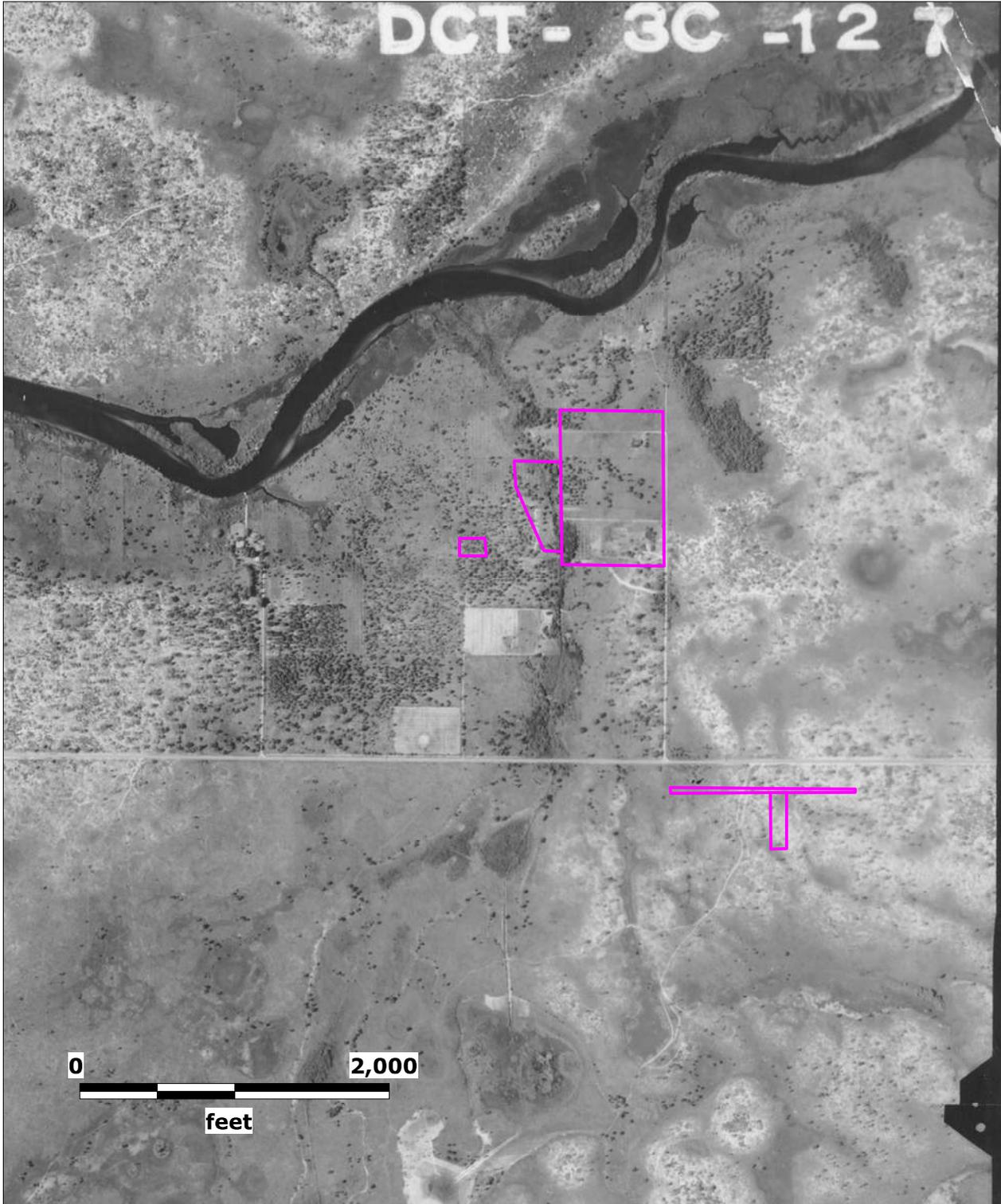
Subject Property

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

Lat (DMS): 26 20' 13.4052"
Lon (DMS): -81 48' 11.5524"

EDM Job No: 26655
September 6, 2023

 Approximate Site Location



Source: University of Florida

Map Scale and Property Boundaries are Approximate

Subject Property

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

Lat (DMS): 26 20' 13.4052"
Lon (DMS): -81 48' 11.5524"

EDM Job No: 26655
September 6, 2023

 Approximate Site Location

APPENDIX C – TOPOGRAPHIC MAPS

Historical Topographic Map Report

Subject Property:

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida
Bonita Springs Quadrangle

Prepared For:

Tierra Inc
7351 Temple Terrace Hwy
Tampa, FL 33637

Prepared By:



Environmental Data Management, Inc.
2840 West Bay Drive, Suite 208
Belleair Bluffs, Florida 33770

September 6, 2023



Environmental Data Management, Inc.
2840 West Bay Drive, Suite 208
Belleair Bluffs, Florida 33770
(727) 586-1700
<http://www.edm-net.com>

September 6, 2023

Collin Duncan
Tierra Inc
7351 Temple Terrace Hwy
Tampa, FL 33637

Subject: **Historical Topographic Maps-- EDM Project #: 26655**
Client Project #: 444321-1-22-01

Dear Mr. Duncan:

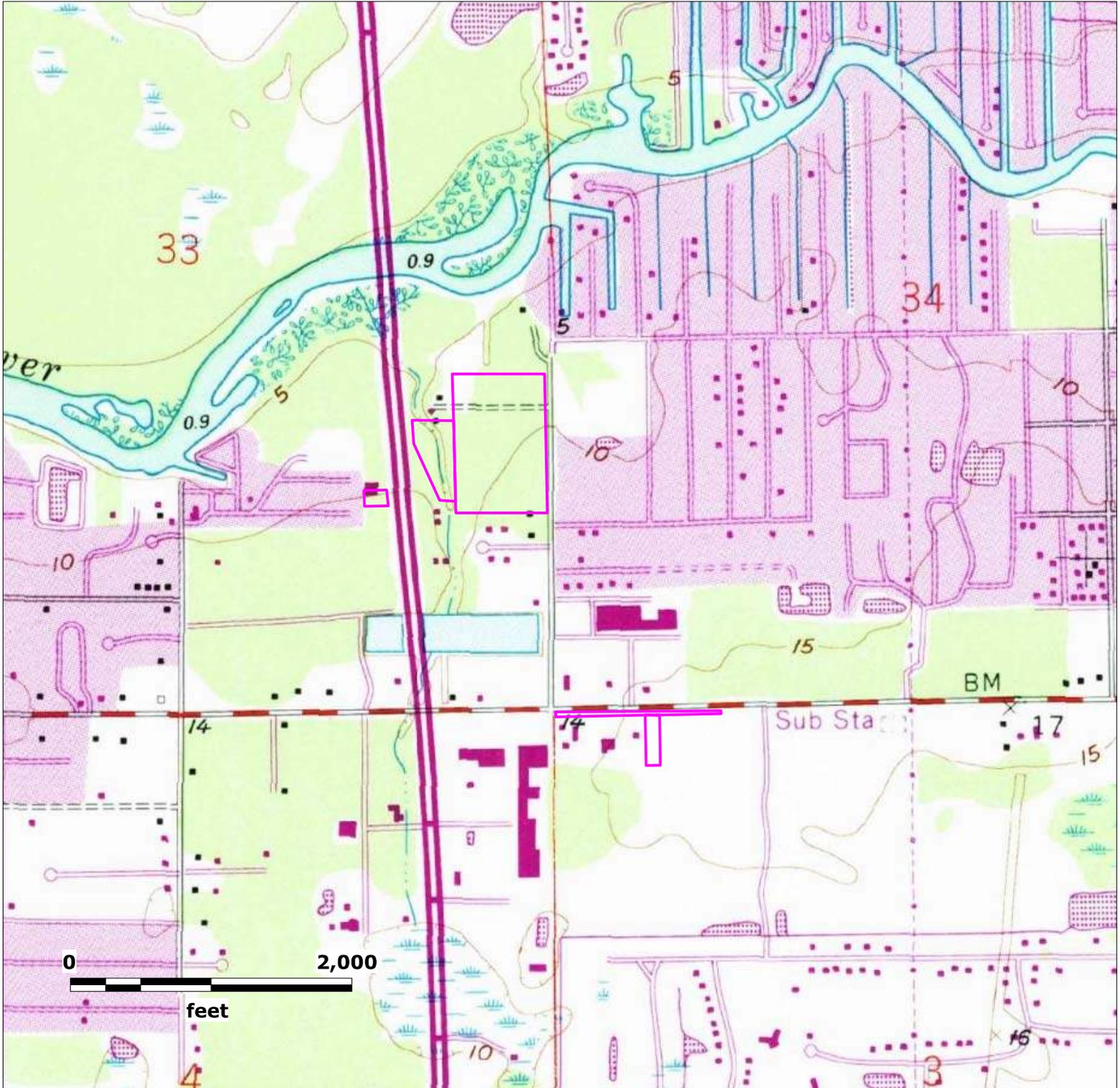
Thank you for choosing Environmental Data Management, Inc. The following report contains a series of Historical Topographic Maps for the following location:

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida
Bonita Springs Quadrangle

These maps were obtained from the digital map collections of the US Geological Survey. Only 7.5 Minute Series maps were selected for this report.

Should you have any questions regarding this report or our service, please feel free to contact us. We appreciate the opportunity to be of service to you and look forward to working with you in the future.

ENVIRONMENTAL DATA MANAGEMENT, INC.



Source: USGS Historical Topographic Map Collection

Map Scale and Property Boundaries are Approximate

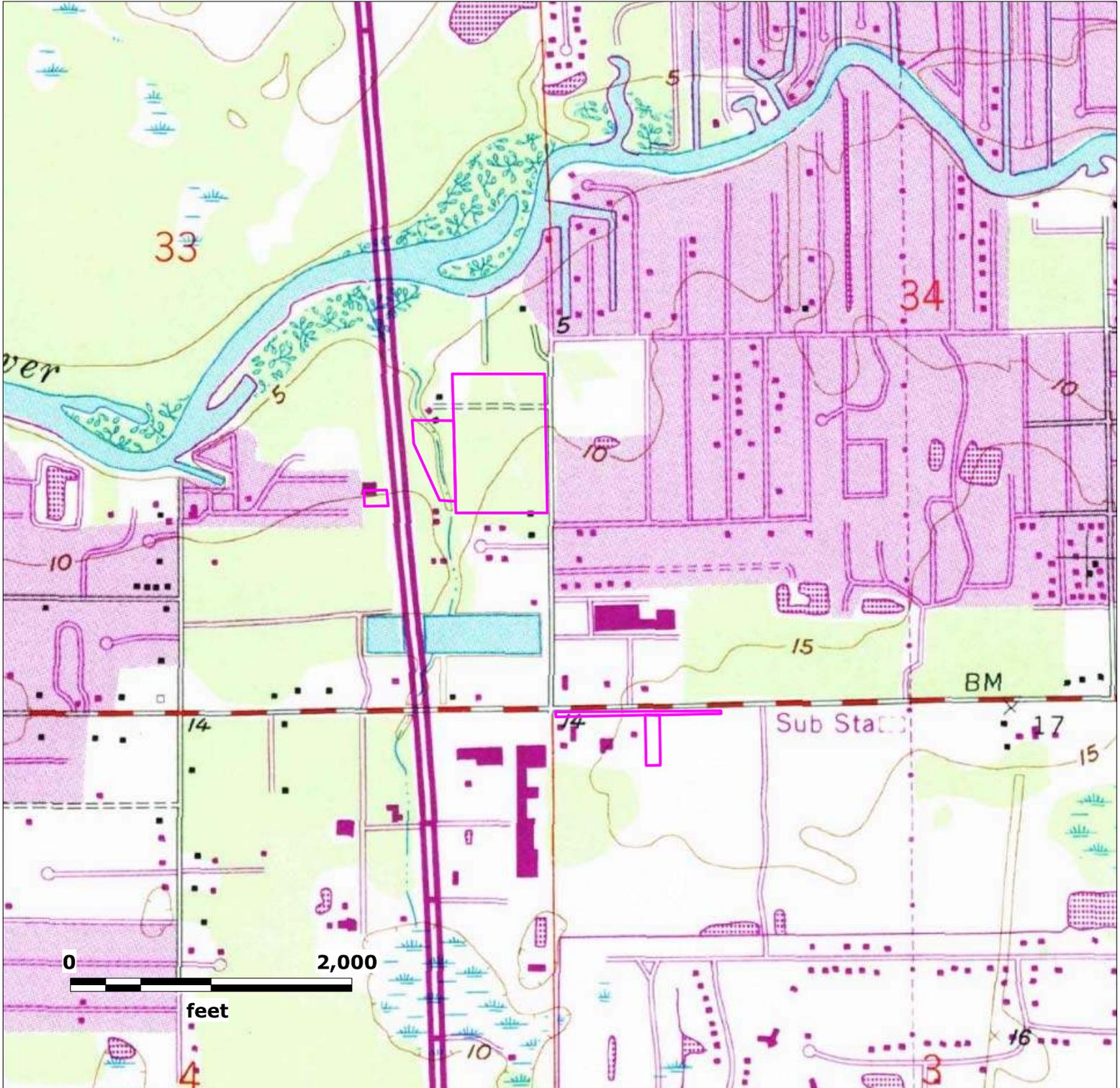
Subject Property

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

Lat (DMS): 26 20' 13.4052"
Lon (DMS): -81 48' 11.5524"

EDM Job No: 26655
September 6, 2023

 Approximate Site Location



Source: USGS Historical Topographic Map Collection

Map Scale and Property Boundaries are Approximate

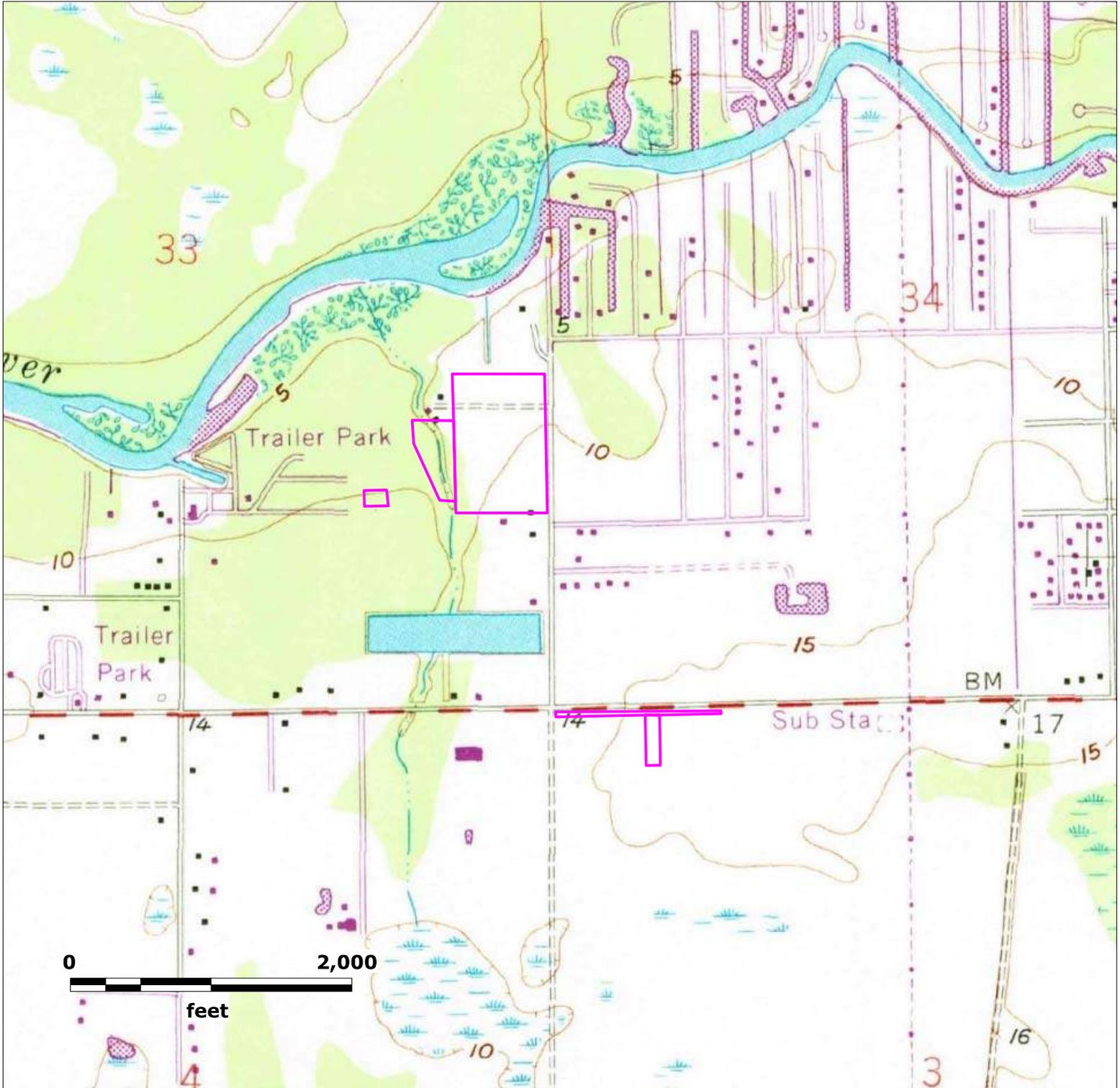
Subject Property

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

Lat (DMS): 26 20' 13.4052"
Lon (DMS): -81 48' 11.5524"

EDM Job No: 26655
September 6, 2023

 Approximate Site Location



Source: USGS Historical Topographic Map Collection

Map Scale and Property Boundaries are Approximate

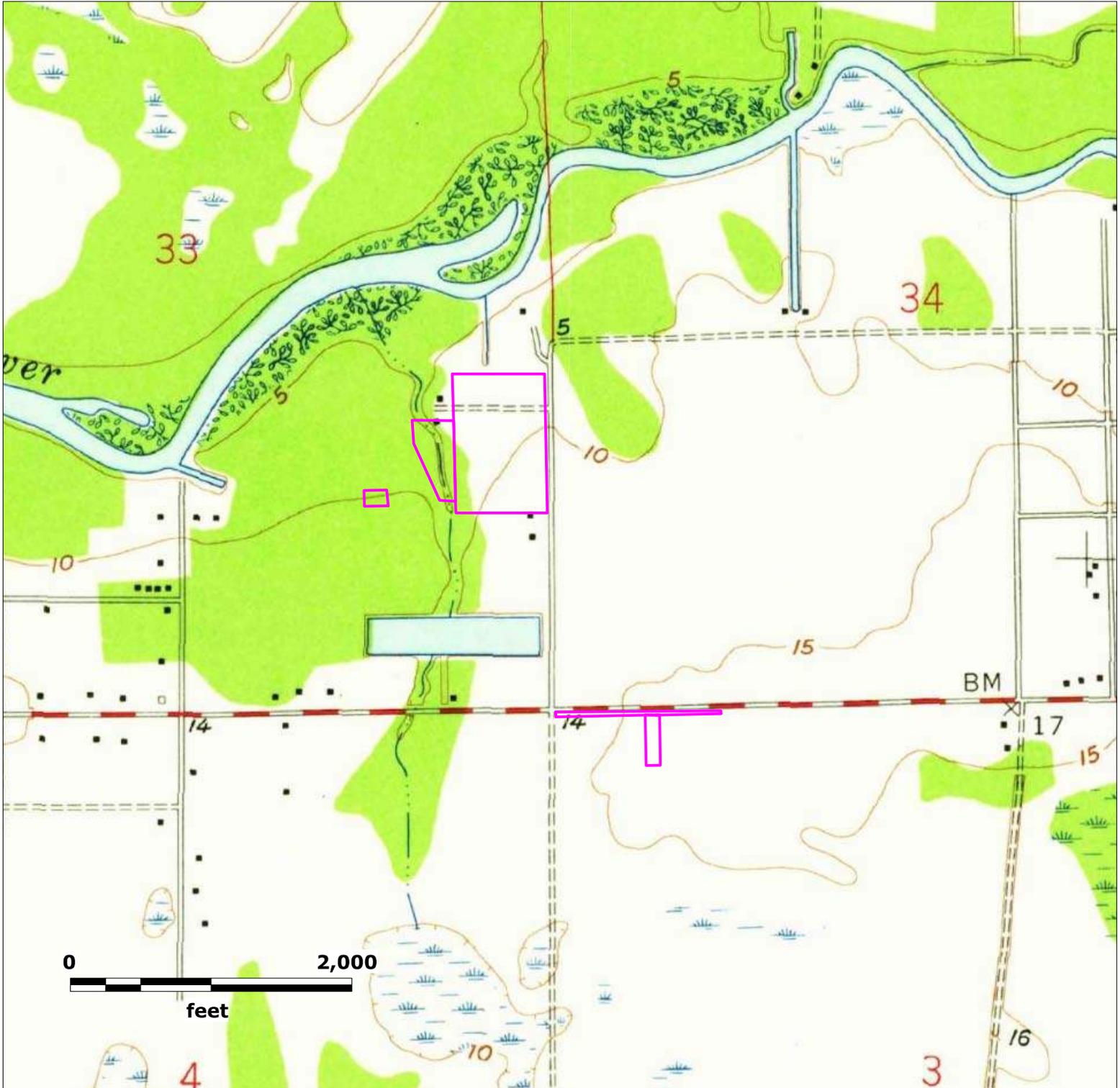
Subject Property

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

Lat (DMS): 26 20' 13.4052"
Lon (DMS): -81 48' 11.5524"

EDM Job No: 26655
September 6, 2023

 Approximate Site Location



Source: USGS Historical Topographic Map Collection

Map Scale and Property Boundaries are Approximate

Subject Property

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

Lat (DMS): 26 20' 13.4052"
Lon (DMS): -81 48' 11.5524"

EDM Job No: 26655
September 6, 2023

 Approximate Site Location

APPENDIX D – EDM REPORT

Environmental Data Report

Custom Radius Research

Subject Property:

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

Prepared For:

Tierra Inc
7351 Temple Terrace Hwy
Tampa, FL 33637

Prepared By:



Environmental Data Management, Inc.
2840 West Bay Drive, Suite 208
Belleair Bluffs, Florida 33770

September 06, 2023



September 06, 2023

Collin Duncan
Tierra Inc
7351 Temple Terrace Hwy
Tampa, FL 33637

Subject: **Custom Radius Research - EDM Project #26655**

Dear Mr. Duncan

Thank you for choosing Environmental Data Management, Inc. The following report provides the results of our environmental data research that you requested for the following location:

**U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida**

The following is a summary of the components contained within this report:

- **Executive Summary** –lists the databases that were searched for this report, the search distance criteria and the number of sites identified for each database.
- **Map of Study Area**– street map showing the location of the Subject Property and any regulatory listed sites identified within the search criteria.
- **Site Summary Table** –displays the Map ID number, Permit or Registration number, Name/Address and the Government Database(s) for the identified regulatory listed sites.
- **Detail Reports** – data detail for each database record identified.
- **Proximal Records Table** – a listing of potentially relevant sites identified just beyond the search criteria.
- **Non-Mapped Records Table** - lists those government records that do not contain sufficient address information to plot within our GIS system, but may still exist within your study area.
- **Addl Maps (where applicable)** – includes Recent Aerial Photo, USGS Topographic maps, FEMA Floodplain & NWI Wetland Map, map of statewide American Indian Lands and our Environmental Impact Areas map, showing the location of suspect sites such as NPL/STNPL, Brownfields, FUDS, etc.... Our Florida well data report is also include with the Standard and Comprehensive formats.
- **Agency List Descriptions** – defines the regulatory databases included in this report along with the dates that each database was last updated by the respective agency and EDM.

At EDM we take great pride in our work, and continually strive to provide you with the most accurate and thorough research service available. This report is only intended as a means to assist in identifying locations that may pose an environmental concern relative to the property under evaluation. Its use is not intended to replace the need for a complete environmental assessment or regulatory file review, but rather as a supplement to the overall evaluation.

Thank you again for selecting EDM as your data research provider. Should you have any questions regarding this report or our service, please feel free to contact us. We appreciate the opportunity to be of service to you and look forward to working with you in the future.

ENVIRONMENTAL DATA MANAGEMENT, INC.

Executive Summary

Report Date: 9/6/2023

Client Information	Project Information
Tierra Inc 7351 Temple Terrace Hwy Tampa, FL 33637 Client Job No: 444321-1-22-01 Client P.O. No:	Custom Radius Research U.S 41 & Bonita Beach Road PD&E Study Lee County, Florida EDM Job No# 26655

The following table displays the databases that were included in the research provided and the number of records identified for each database. Site distance values indicated in this report are measured from the boundary of the Subject Property. The absence of records in this table and the Site Summary Tables indicates that our research found no regulated sites within the specified search distances from the Subject Property.

AGENCY DATABASES RESEARCHED	Total # Found
EPA DATABASES	
National Priorities List(NPL)	0
SEMS Active Site Inventory List(SEMSACTV)	0
Comp Env Resp, Compensation & Liability Info Sys List(CERCLIS)	0
SEMS Archived Site Inventory List(SEMSARCH)	0
Archived Cerclis Sites(NFRAP)	0
RCRIS Handlers with Corrective Action(CORRACTS)	0
Tribal Tanks List(TRIBLTANKS)	0
Tribal Lust List(TRIBLLUST)	0
Brownfields Management System(USBRWNFLDS)	0
Institutional and/or Engineering Controls(USINSTENG)	0
NPL Liens List(NPLLIENS)	0
RCRA-Treatment, Storage and/or Disposal Sites(TSD)	0

*** Disclaimer ***

Please understand that the regulatory databases we utilize were not originally intended for our use, but rather for the source agency's internal tracking of sites for which they have jurisdiction or other interest. As a result of this difference in intended use, their data is frequently found to be incomplete or inaccurate, and is less than ideal for our use. Our report is not to be relied upon for any purpose other than to "point" at approximate locations where further evaluation may be warranted. No conclusion can be based solely upon our report. Rather, our report should be used as a first step in directing your attention at potential problem areas, which should be followed up by site inspections, interviews with relevant personnel, regulatory file review and other means as specified in the ASTM Standard E 1527-13. Readers proceed at their own risk in relying upon this data, in whole or in part, for use within any evaluation. More detailed language with regard to such limitations and our Terms and Conditions may be found on our website at edm-net.com.



AGENCY DATABASES RESEARCHED	Total # Found
FDEP DATABASES	
State NPL Equivalent(STNPL)	0
State CERCLIS/SEMS Equivalent(STCERC)	1
Solid Waste Facilities List_Landfills(SLDWST_LF)	0
Leaking Underground Storage Tanks List(LUST)	1
Underground/Aboveground Storage Tanks(TANKS)	1
State Designated Brownfields(BRWNFLDS)	0
Voluntary Cleanup List(VOLCLNUP)	0
Institutional and/or Engineering Controls(INSTENG)	0
Dry Cleaners List(DRY)	0

*** Disclaimer ***

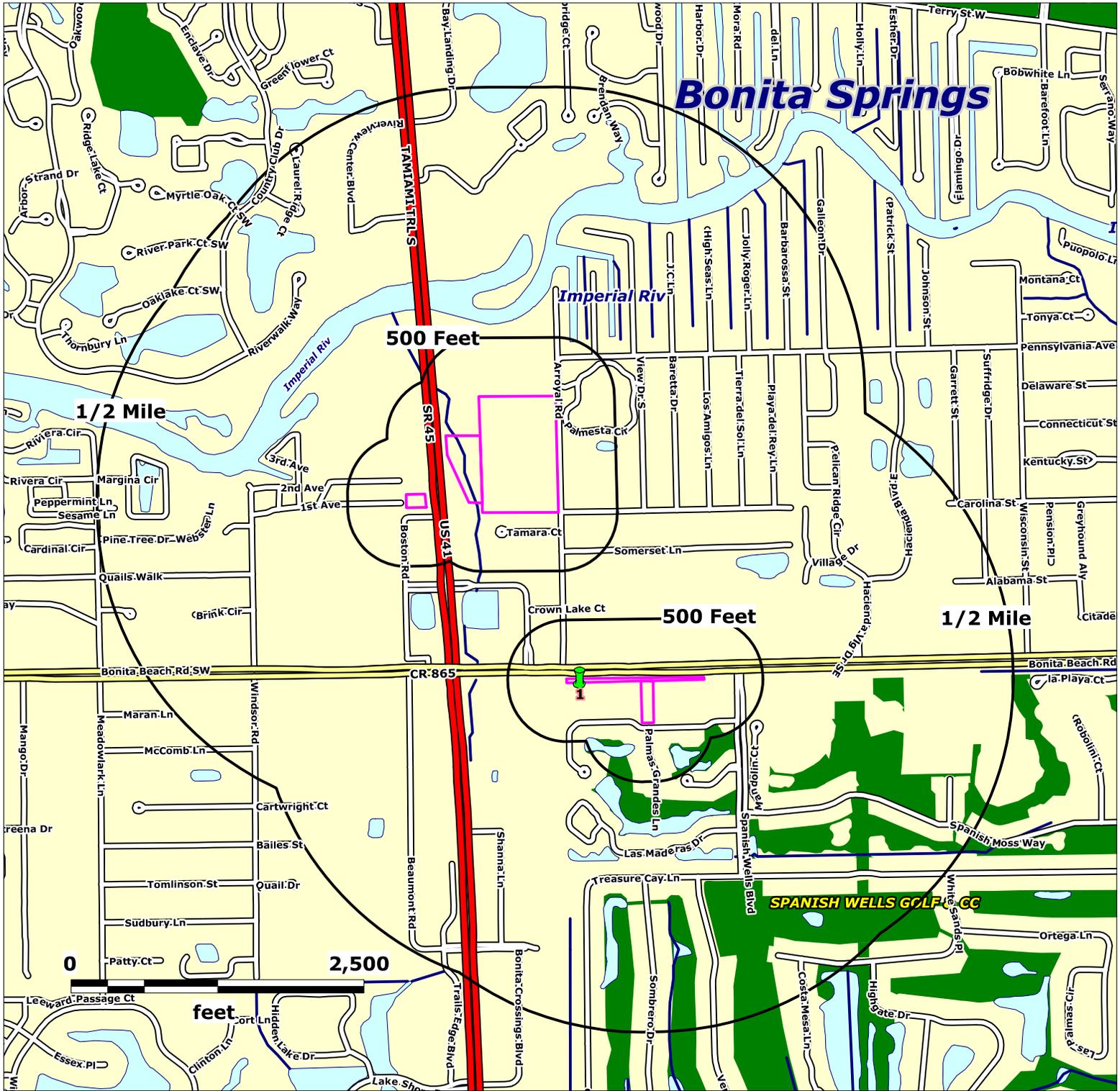
Please understand that the regulatory databases we utilize were not originally intended for our use, but rather for the source agency's internal tracking of sites for which they have jurisdiction or other interest. As a result of this difference in intended use, their data is frequently found to be incomplete or inaccurate, and is less than ideal for our use. Our report is not to be relied upon for any purpose other than to "point" at approximate locations where further evaluation may be warranted. No conclusion can be based solely upon our report. Rather, our report should be used as a first step in directing your attention at potential problem areas, which should be followed up by site inspections, interviews with relevant personnel, regulatory file review and other means as specified in the ASTM Standard E 1527-13. Readers proceed at their own risk in relying upon this data, in whole or in part, for use within any evaluation. More detailed language with regard to such limitations and our Terms and Conditions may be found on our website at edm-net.com.



Copyright © 1990-2023 Environmental Data Management, Inc.

For further information please contact us at 727-586-1700

Use of this information is strictly limited by EDM's authorization agreement, acknowledged by our clients for each report.



Source: US Census Bureau TIGER Files

Map Scale and Property Boundaries are Approximate

Subject Property

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

Lat (DMS): 26 20' 13.4052"
Lon (DMS): -81 48' 11.5524"

EDM Job No: 26655
September 6, 2023

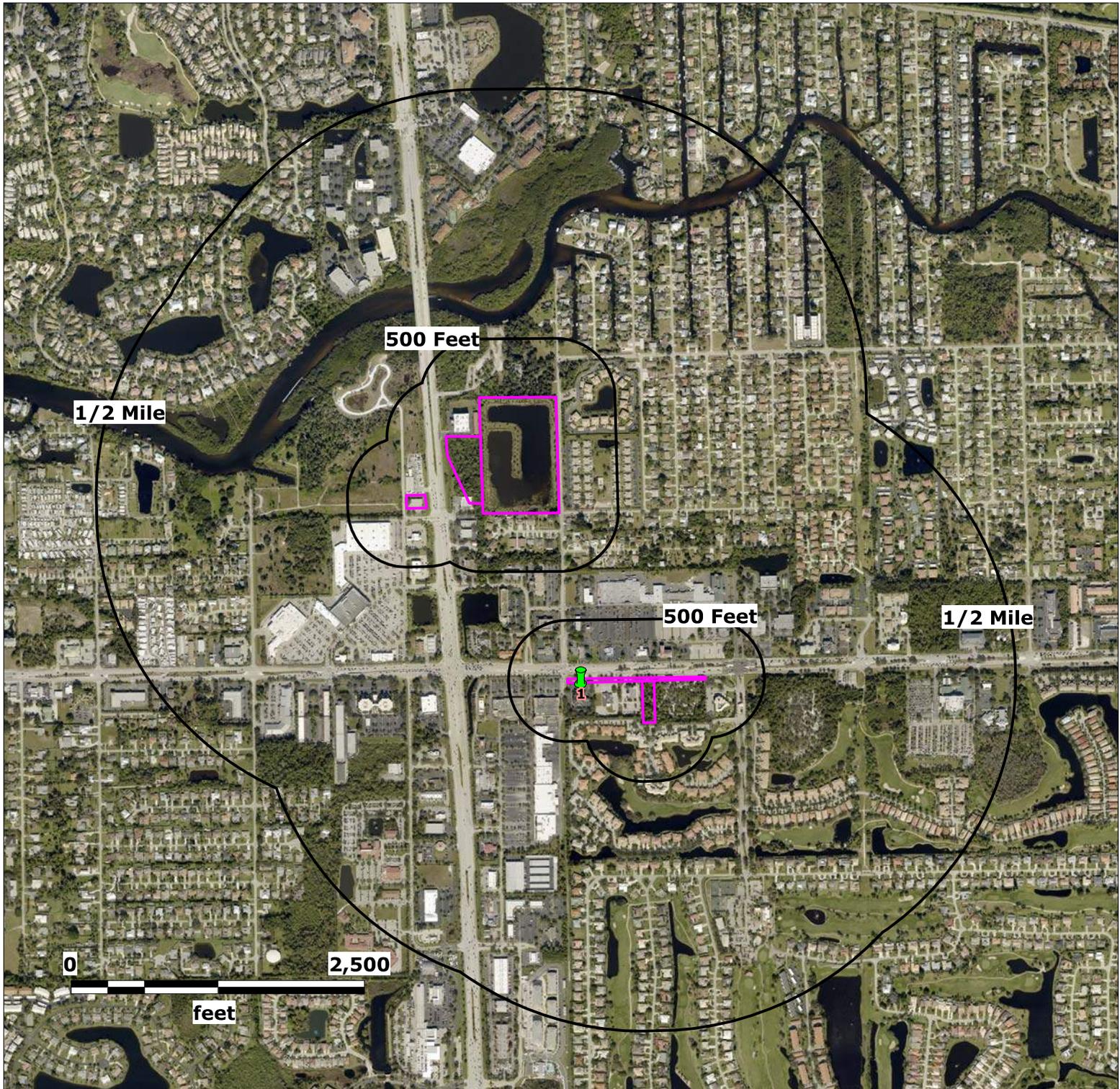
Approximate Site Boundary



NPL, STNPL, CERCLIS, SEMSACTV,
SEMSARCH and SLDWST_LF sites - 1/2 Mile



NPLLIENS, CORRACTS, NFRAP, TSD,
STCERC, LUST, BRWNFLDS, VOLCLNUP,
DRY, TANKS & INSTENG sites - 500 Feet



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

Subject Property

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

Lat (DMS): 26 20' 13.4052"
Lon (DMS): -81 48' 11.5524"

EDM Job No: 26655
September 6, 2023

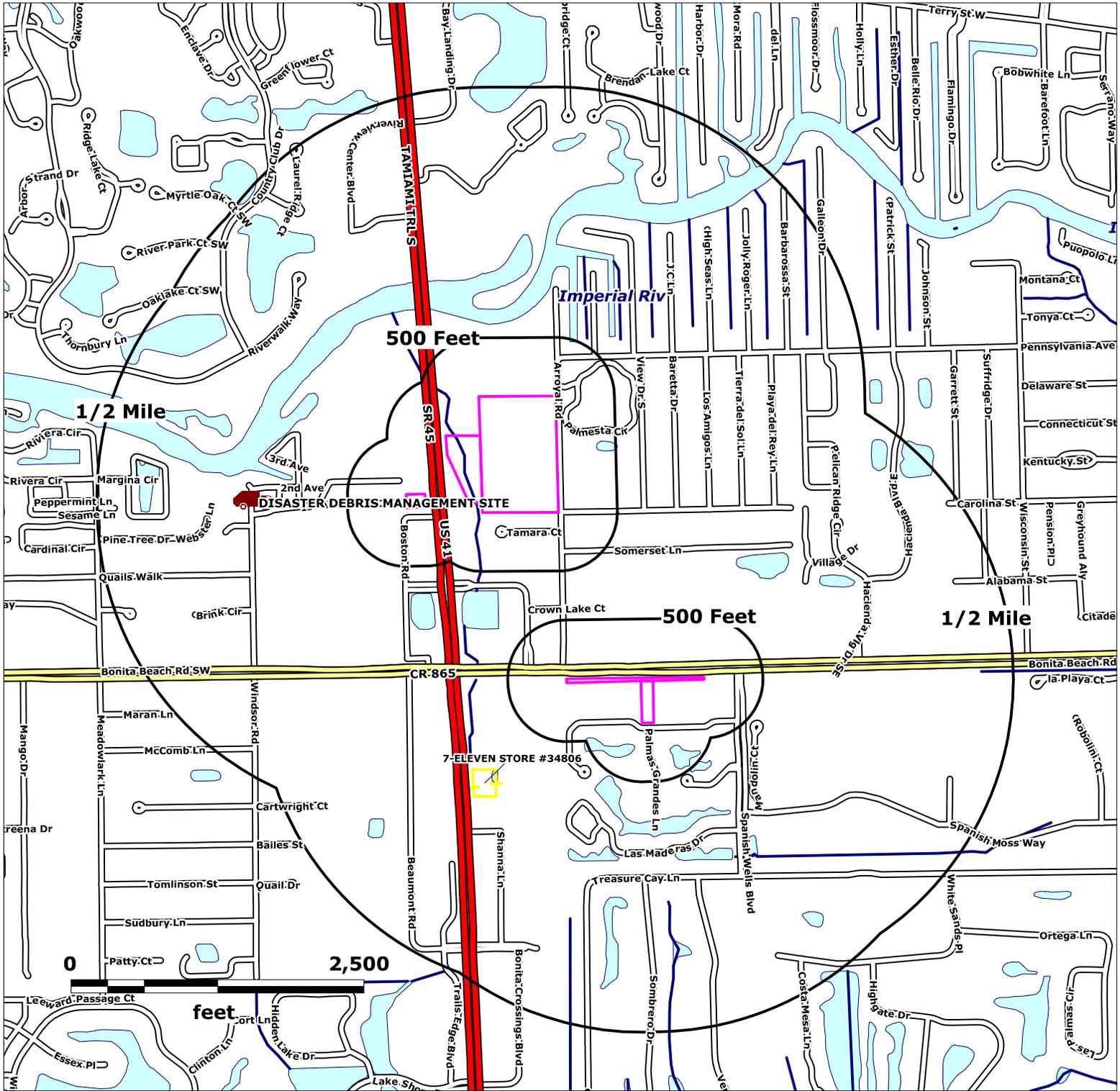
Approximate Site Boundary



NPL, STNPL, CERCLIS, SEMSACTV,
SEMSARCH and SLDWST_LF sites - 1/2 Mile



NPLLIENS, CORRACTS, NFRAP, TSD,
STCERC, LUST, BRWNFLDS, VOLCLNUP,
DRY, TANKS & INSTENG sites - 500 Feet



Source: FDEP and USEPA Geodata

Map Scale and Property Boundaries are Approximate

Subject Property

U.S 41 & Bonita Beach Road
PD&E Study
Lee County, Florida

Lat (DMS): 26 20' 13.4052"
Lon (DMS): -81 48' 11.5524"

EDM Job No: 26655
September 6, 2023

	FDEP Brownfield Areas		Formerly Used Defense Sites FUDS		Approximate Site Boundary
	FDEP Brownfield Sites		FUDS Munitions Response Areas		FDEP Cattle Dipping Vat
	USEPA NPL & FDEP STNPL Sites		FDEP Solid Waste Sites		Institutional Controls
	FDEP Delineated GW Contamination				

ENVIRONMENTAL DATA MANAGEMENT

Custom Radius Research

Site Summary Table

Report Date: 9/6/2023

Page 1 of 1

MapID Prgm List	Fac ID No	Site Dist (ft)	Site Elev (ft)	Elev vs Sub Prop	Site Name	Site Address
1						
LUST	8520618	79	13.12	Higher	BP-BONITA-OLEUM CORP	9021 BONITA BEACH RD BONITA SPRINGS, FL 339234213
STCERC	8520618	79	13.12	Higher	BP-BONITA-OLEUM CORP	9021 BONITA BEACH RD BONITA SPRINGS, FL 339234213
TANKS	8520618	79	13.12	Higher	BP-BONITA-OLEUM CORP	9021 BONITA BEACH RD BONITA SPRINGS, FL 33923



FDEP SITE INVESTIGATION SECTION SITES, FDEP ERIC WASTE CLEANUP SITES, FDEP CLEANUP SITES AND FDER SITES LIST

(STCERC)

Report Date: 9/6/2023

STCERC Page 1 of 1

FACILITY NAME AND LOCATION:

BP-BONITA-OLEUM CORP
9021 BONITA BEACH RD
BONITA SPRINGS, FL 33923-4213

AGENCY SITE LAT/LON:

260333.99345007
618977.99854835

MAP ID NUMBER:

1

Dist (FEET): 79.00
Direction:
Elev (Ft): 13.12
Elev vs Sub Prop: Higher

STCERC

[FDEP INFORMATION PORTAL ON LINE DOCUMENTS](#) (May Not Be Available For All Records)

SITE INVESTIGATION SECTION INFO:

SITE NO:
ALT SITE NO:
DISTRICT: SD

FDER SITES LIST INFO:

SITE NO:
LEAD UNIT:
PRJ MGR:
ATTY:
SUP UNIT:
STATUS:
STATUS DATE:

CLEANUP SITES INFO:

SRC DATA ID: 8520618
SRC DATA PGM: STCM
PGM AREA: TK
CLNP CAT: PETRO
REM STATUS: ACTIVE
COMMENTS:

ERIC WASTE CLEANUP SITES INFO:

SRC FAC ID:
PROGRAM:
PROGRAM STATUS:
OFFSITE COMTAM KEY:

ERIC ID NO:

SRC FAC NAME:

PROGRAM TYPE:
SITE PHASE DESCR:
ICR ?:

SITE NAME:

SITE STATUS:

DISCHARGE DATE:



Copyright © 1990-2023 Environmental Data Management, Inc.

For further information please contact us at 727-586-1700

Use of this information is strictly limited by EDM's authorization agreement, acknowledged by our clients for each report.

FDEP LEAKING UNDERGROUND STORAGE TANKS REPORT

(LUST)

Report Date: 9/6/2023

LUST Page 2 of 3

TANKS Data for LUST Sites:

FACILITY ID NUMBER, NAME AND LOCATION	OWNERSHIP INFORMATION	MAP ID NUMBER:	1
<p>8520618 BP-BONITA-OLEUM CORP 9021 BONITA BEACH RD BONITA SPRINGS, FL 33923</p>	<p>OLEUM CORP PO BOX 413038 NAPLES, FL 33941 CONTACT TEL #: 8132628333 CONTACT: OLEUM CORP FACILITY TEL #: 8139924941 COUNTY ID: 36 LEE</p>	<p>Dist (FEET): 79.00 Direction: Elev (Ft): 13.12 Elev vs Sub Prop: Higher</p>	T A N K S
<p>FDEP INFORMATION PORTAL ON LINE DOCUMENTS (May Not Be Available For All Records)</p>			
<p>FAC STATUS: CLOSED FAC TYPE: Retail Station</p>			
<p>TANK #: 1 TANK VOL(GALS): 10152 INST.DATE: 01-Jul-1976 TANK CONTENTS: Leaded Gas TANK POSITION: UNDERGROUND TANK STATUS (as of...) REMOVED FROM SITE 30-Nov-1988</p> <p>CONSTRUCTION TYPE: BALL CHECK VALVE/STEEL PIPING TYPE: LEAK MONITORING: UNKNOWN</p>			
<p>TANK #: 1R1 TANK VOL(GALS): 10000 INST.DATE: 01-Nov-1988 TANK CONTENTS: Unleaded Gas TANK POSITION: UNDERGROUND TANK STATUS (as of...) REMOVED FROM SITE 01-Sep-1994</p> <p>CONSTRUCTION TYPE: FIBERGLASS-CLAD STEEL/BALL CHECK VALVE PIPING TYPE: LEAK MONITORING: MANUALLY SAMPLED WELLS</p>			
<p>TANK #: 2 TANK VOL(GALS): 12000 INST.DATE: 01-Jul-1980 TANK CONTENTS: Unleaded Gas TANK POSITION: UNDERGROUND TANK STATUS (as of...) REMOVED FROM SITE 30-Nov-1988</p> <p>CONSTRUCTION TYPE: BALL CHECK VALVE/STEEL PIPING TYPE: LEAK MONITORING: UNKNOWN</p>			
<p>TANK #: 2R1 TANK VOL(GALS): 10000 INST.DATE: 01-Nov-1988 TANK CONTENTS: Unleaded Gas TANK POSITION: UNDERGROUND TANK STATUS (as of...) REMOVED FROM SITE 01-Sep-1994</p> <p>CONSTRUCTION TYPE: FIBERGLASS-CLAD STEEL/BALL CHECK VALVE PIPING TYPE: LEAK MONITORING: MANUALLY SAMPLED WELLS</p>			
<p>TANK #: 3 TANK VOL(GALS): 10152 INST.DATE: 01-Jul-1976 TANK CONTENTS: Unleaded Gas TANK POSITION: UNDERGROUND TANK STATUS (as of...) REMOVED FROM SITE 30-Nov-1988</p> <p>CONSTRUCTION TYPE: BALL CHECK VALVE/STEEL PIPING TYPE: LEAK MONITORING: UNKNOWN</p>			
<p>TANK #: 3R1 TANK VOL(GALS): 10000 INST.DATE: 01-Nov-1988 TANK CONTENTS: Leaded Gas TANK POSITION: UNDERGROUND TANK STATUS (as of...) REMOVED FROM SITE 01-Sep-1994</p> <p>CONSTRUCTION TYPE: FIBERGLASS-CLAD STEEL/BALL CHECK VALVE PIPING TYPE: LEAK MONITORING: MANUALLY SAMPLED WELLS</p>			



Copyright © 1990-2023 Environmental Data Management, Inc.
For further information please contact us at 727-586-1700

Use of this information is strictly limited by EDM's authorization agreement, acknowledged by our clients for each report.

FDEP LEAKING UNDERGROUND STORAGE TANKS REPORT

(LUST)

Report Date: 9/6/2023

LUST Page 3 of 3

<u>TANK #:</u>	<u>TANK VOL(GALS):</u>	<u>INST.DATE:</u>	<u>TANK CONTENTS:</u>	<u>TANK POSITION:</u>	<u>TANK STATUS (as of...)</u>
4	10152	01-Jul-1976	Vehicular Diesel	UNDERGROUND	REMOVED FROM SITE 30-Nov-1988
<p>CONSTRUCTION TYPE: BALL CHECK VALVE/STEEL</p> <p>PIPING TYPE:</p> <p>LEAK MONITORING: UNKNOWN</p>					
<u>TANK #:</u>	<u>TANK VOL(GALS):</u>	<u>INST.DATE:</u>	<u>TANK CONTENTS:</u>	<u>TANK POSITION:</u>	<u>TANK STATUS (as of...)</u>
4R1	10000	01-Nov-1988	Vehicular Diesel	UNDERGROUND	REMOVED FROM SITE 01-Sep-1994
<p>CONSTRUCTION TYPE: FIBERGLASS-CLAD STEEL/BALL CHECK VALVE</p> <p>PIPING TYPE:</p> <p>LEAK MONITORING: MANUALLY SAMPLED WELLS</p>					



Copyright © 1990-2023 Environmental Data Management, Inc.

For further information please contact us at 727-586-1700

Use of this information is strictly limited by EDM's authorization agreement, acknowledged by our clients for each report.

ENVIRONMENTAL DATA MANAGEMENT

Custom Radius Research Proximal Site Summary Table

This table includes mapped sites whose plotted coordinates fall just outside of the ASTM or client defined research distance but whose property boundaries may still extend into the search area. These sites are typically large commercial or industrial tracts that may merit inclusion in the evaluation process. Detail data reports on any of these sites may be requested and will be sent as an addendum to this report at no additional cost.

Report Date: 9/6/2023

Page 1 of 1

MapID Prgm List	Fac ID No	Site Dist (ft)	Site Elev (ft)	Elev vs Sub Prop	Site Name	Site Address
1A						
DRY	9502316	822	12.23	Higher	SPRING FRESH DRY CLEANERS	8951 BONITA BEACH RD BONITA SPRINGS, FL 33923
STCERC	ERIC_11227	822	12.23	Higher	SPRINGS PLAZA SHOPPING CENTER (SPRING FRESH DRY CLEANERS)	8951 BONITA BEACH RD SUITE 21D BONITA SPRINGS, FL 33923
STCERC	ERIC_4849	822	12.23	Higher	Spring Fresh Cleaners Inc	8951 Bonita Beach Rd SE Bonita Springs, FL 341354202
TANKS	9502316	822	12.23	Higher	SPRING FRESH DRY CLEANERS	8951 BONITA BEACH RD BONITA SPRINGS, FL 33923
VOLCLNUP	50410	822	12.23	Higher	SPRINGS PLAZA SHOPPING CENTER (SPRING FRESH DRY CLEANERS)	8951 BONITA BEACH RD SUITE 21D BONITA SPRINGS, FL 33923
VOLCLNUP	ERIC_11227	822	12.23	Higher	SPRINGS PLAZA SHOPPING CENTER (SPRING FRESH DRY CLEANERS)	8951 BONITA BEACH RD SUITE 21D BONITA SPRINGS, FL
2A						
DRY	9503050	1017	9.99	Higher	PRESTIGE CLEANERS	3300 BONITA BCH RD #107 BONITA SPRINGS, FL 34134
TANKS	9503050	1017	9.99	Higher	PRESTIGE CLEANERS	3300 BONITA BEACH RD #107 BONITA SPRINGS, FL 34134
3A						
DRY	9801967	752	14.87	Higher	SUNSHINE DRY CLEANERS	9048 BONITA BEACH RD BONITA SPRINGS, FL 33923
TANKS	9801967	752	14.87	Higher	SUNSHINE DRY CLEANERS	9048 BONITA BEACH RD BONITA SPRINGS, FL 33923



ENVIRONMENTAL DATA MANAGEMENT

Custom Radius Research Non-Mapped Records Summary Table

This table is a listing of database records that have not been plotted within our mapping system. Detail data reports on any of these sites may be requested and will be sent as an addendum to this report at no additional cost.

Report Date: 9/6/2023

Page 1 of 1

Prgm List	Site Name	Site Address
Fac ID No		



Agency List Descriptions

USEPA and State Databases are updated on a quarterly basis. Supplemental Databases are updated on an annual basis.

Florida Department of Environmental Protection (FDEP)

State Designated Brownfields(BRWNFLDS)

The FDEP Brownfields database contains a listing of State Designated Brownfield Areas and Brownfield Sites. Brownfields are typically defined as abandoned, idled or underused industrial and commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination.

Agency File Date: 5/2/2023

Received by EDM: 5/3/2023

EDM Database Updated: 5/3/2023

Dry Cleaners List(DRY)

The FDEP Dry Cleaning Facilities List is comprised of data from the FDEP Storage Tank and Contamination Monitoring (STCM) database and the Drycleaning Solvent Cleanup Program- Priority Ranking List. It contains a listing of those Dry Cleaning sites (and suspected historical Dry Cleaning sites) who have registered with the FDEP and/or have applied for the Dry Cleaning Solvent Cleanup Program.

Agency File Date: 7/27/2023

Received by EDM: 8/1/2023

EDM Database Updated: 8/1/2023

Institutional and/or Engineering Controls(INSTENG)

The FDEP Institutional Controls Registry Database (INSTENG) contains sites that have had Institutional and/or Engineering Controls implemented to regulate exposure to environmental hazards

Agency File Date: 6/23/2023

Received by EDM: 7/20/2023

EDM Database Updated: 7/20/2023

Leaking Underground Storage Tanks List(LUST)

The FDEP LUST list identifies facilities and/or locations that have notified the FDEP of a possible release of contaminants from petroleum storage systems. This Report is generated from the FDEP Storage Tank and Contamination Monitoring Database (STCM).

Agency File Date: 7/28/2023

Received by EDM: 7/28/2023

EDM Database Updated: 7/28/2023

Solid Waste Facilities List_Landfills(SLDWST_LF)

The SLDWST_LF list identifies locations that have conducted solid waste landfill activities as determined by the applicable FDEP Facility Classifications. Sites listed with "##" after the Facility ID Number are historical locations, obtained from documents on record at local agencies.

Agency File Date: 8/1/2023

Received by EDM: 8/1/2023

EDM Database Updated: 8/1/2023

State CERCLIS/SEMS Equivalent(STCERC)

The STCERC list is compiled from the FDEP Site Investigation Section list, the Florida SITES list(historical) and the FDEP Cleanup Sites list. These sites are being assessed and/or cleaned up as a result of identified or suspected contamination from the release of hazardous substances. The FDEP Cleanup Sites list programs include: Brownfields, Petroleum, EPA Superfund (CERCLA), Drycleaning, Responsible Party Cleanup, State Funded Cleanup, State Owned Lands Cleanup and Hazardous Waste Cleanup.

Agency File Date: 7/17/2023

Received by EDM: 7/2/2023

EDM Database Updated: 7/27/2023

State NPL Equivalent(STNPL)

The FDEP State Funded Cleanup list contains facilities and/or locations where there are no viable responsible parties; the site poses an imminent hazard; and the site does not qualify for Superfund or is a low priority for EPA. Remedial efforts at these sites are currently being addressed through State funded cleanup action.

Agency File Date: 6/19/2023

Received by EDM: 7/12/2023

EDM Database Updated: 7/12/2023

Underground/Aboveground Storage Tanks(TANKS)

The FDEP TANKS list contains sites with registered aboveground and underground storage tanks containing regulated petroleum products.

Agency File Date: 6/1/2023

Received by EDM: 6/1/2023

EDM Database Updated: 6/2/2023

Voluntary Cleanup List(VOLCLNUP)

The VOLCLNUP List is derived from the FDEP Brownfields Site Rehabilitation Agreement (BSRA) database, the FDEP ERIC Waste Cleanup database and the FDEP Office of Waste Cleanup Responsible Party Sites database (not available as of June 2021). The VOLCLNUP List identifies sites that have signed an agreement to Voluntarily cleanup a site and/or sites where legal responsibility for site rehabilitation exists pursuant to Florida Statutes and is being conducted either voluntarily or pursuant to enforcement activity.

Agency File Date: 5/1/2023

Received by EDM: 5/3/2023

EDM Database Updated: 5/3/2023

United States Environmental Protection Agency (EPA)

Comp Env Resp, Compensation & Liability Info Sys List(CERCLIS)

The US EPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database tracks potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are proposed to be on the NPL, are on the NPL and sites that are in the screening and assessment phase for possible inclusion on the NPL. The CERCLIS database was retired in November of 2013 and has been replaced by the Superfund Enterprise Management System (SEMS).

Agency File Date: 11/12/2013

Received by EDM: 2/18/2016

EDM Database Updated: 2/18/2016

RCRIS Handlers with Corrective Action(CORRACTS)

The US EPA Corrective Action Sites (CORRACTS) database is a listing of hazardous waste handlers that have undergone RCRA corrective action activity.

Agency File Date: 5/22/2023

Received by EDM: 5/25/2023

EDM Database Updated: 5/25/2023

Archived Cerclis Sites(NFRAP)

The US EPA NFRAP list contains archived data of CERCLIS records where the EPA has completed assessment activities and determined that no further steps to list the site on the NPL will be taken. NFRAP sites may be reviewed in the future to determine if they should be returned to CERCLIS based upon newly identified contamination problems at the site. The NFRAP database was retired in November of 2013 and has been replaced by the Superfund Enterprise Management System (SEMS).

Agency File Date: 10/25/2013

Received by EDM: 2/18/2016

EDM Database Updated: 2/18/2016

National Priorities List(NPL)

The US EPA National Priorities List (NPL) contains facilities and/or locations where environmental contamination has been confirmed and prioritized for cleanup activities under the Superfund Program. EDM's NPL Report includes sites that are currently on the NPL as well as sites that have been Proposed, Withdrawn and/or Deleted from the list. Previously, information for the NPL was managed under the CERCLIS data management system. In 2014 this system was replaced with the Superfund Enterprise Management System (SEMS). EPA last updated CERCLIS in November of 2013. EDM's NPL Report contains available SEMS data and the archived CERCLIS data relative to NPL sites.

Agency File Date: 7/11/2023

Received by EDM: 7/11/2023

EDM Database Updated: 7/11/2023

NPL Liens List(NPLLIENS)

The US EPA NPL Liens List identifies those sites where under authority granted by CERCLA, liens have been filed against real property in order to recover expenditures from remedial action or when the property owner receives a notice of potential liability.

Agency File Date: 6/22/2023

Received by EDM: 7/11/2023

EDM Database Updated: 7/11/2023

SEMS Active Site Inventory List(SEMSACTV)

The US EPA Superfund Enterprise Management System (SEMS) tracks potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. The SEMSACTV list contains sites that are on the National Priorities List (NPL) as well as sites that are proposed for or in the screening and assessment phase for possible inclusion on the NPL. SEMS has replaced the CERCLIS database, which was retired in November of 2013.

Agency File Date: 4/26/2023

Received by EDM: 5/24/2023

EDM Database Updated: 5/24/2023

SEMS Archived Site Inventory List(SEMSARCH)

The US EPA Superfund Enterprise Management System (SEMS), contains archived data of CERCLIS or SEMS records where the EPA has completed assessment activities and determined that no further steps to list the site on the NPL will be taken. These sites may be reviewed in the future to determine if they should be returned to SEMS based upon newly identified contamination problems at the site. SEMS has replaced the CERCLIS database, which was retired in November of 2013. The SEMSARCH database contains these newly archived records under the SEMS database management system.

Agency File Date: 4/26/2023

Received by EDM: 5/24/2023

EDM Database Updated: 5/24/2023

Tribal LUST List(TRIBLLUST)

EDM's Tribal LUST list is derived from the USEPA Region IV Tribal Tanks database by extracting those sites with indicators of past and/or current releases.

Agency File Date: 2/24/2010

Received by EDM: 3/9/2010

EDM Database Updated: 3/9/2010

Tribal Tanks List(TRIBLTANKS)

The USEPA Region IV Tribal Tanks database lists Active and Closed storage tank facilities on Native American lands.

Agency File Date: 2/24/2010

Received by EDM: 3/9/2010

EDM Database Updated: 3/9/2010

RCRA-Treatment, Storage and/or Disposal Sites(TSD)

The EDM TSD list is a subset of the US EPA RCRAInfo system and identifies facilities that Treat, Store and/or Dispose of hazardous waste.

Agency File Date: 5/22/2023

Received by EDM: 5/23/2023

EDM Database Updated: 5/24/2023

Brownfields Management System(USBRWNFLDS)

The US EPA Brownfields program provides information on environmentally distressed properties that have received Grants or Targeted funding for cleanup and redevelopment. Tribal Brownfield sites are included in the USBRWNFLDS database.

Agency File Date: 5/25/2023

Received by EDM: 5/25/2023

EDM Database Updated: 5/30/2023

Institutional and/or Engineering Controls(USINSTENG)

The USINSTENG list is compiled from data elements contained in the NPL, CORRACTS, USBRWNFLDS and RCRAInfo databases.

Agency File Date: 5/25/2023

Received by EDM: 5/25/2023

EDM Database Updated: 5/30/2023

Environmental Impact Areas

Brownfield Areas and Sites

The FDEP Brownfields database contains a listing of State Designated Brownfield Areas and Brownfield Sites. Brownfields are typically defined as abandoned, idled or underused industrial and commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination.

Agency File Date: 4/28/2023

Received by EDM: 5/2/2023

EDM Database Updated: 5/3/2023

<https://floridadep.gov/waste/waste-cleanup/content/brownfields-program>

Cattle Dipping Vats

From the 1910's through the 1950's, 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.

Some of the sites have been located and are currently under investigation. However, most of the listings are from old records of the State Livestock Board, which listed each vat as it was put into operation. In addition, some privately operated vats may have existed which were not listed by the Livestock Board. EDM's Cattle Dipping Vat sites are retrieved from the Voluntary Cleanup and STCERC databases. For additional information on Cattle Dipping Vats visit the FDEP and FDOH websites at:

Agency File Date: 10/31/2018

Received by EDM: 1/25/2019

EDM Database Updated: 1/25/2019

<https://floridadep.gov/waste/district-business-support/content/cattle-dipping-vats-cdv>

<http://www.floridahealth.gov/environmental-health/drinking-water/cattledipvathome.html>

Formerly Used Defense Sites

The DoD is responsible for the environmental restoration of properties that were formerly owned by, leased to or otherwise possessed by the United States and operated under the jurisdiction of the Secretary of Defense prior to October 1986. Such properties are known as Formerly Used Defense Sites (FUDS). The Army is the executive agent for the program and the U.S. Army Corps of Engineers manages and directs the program's administration. For more information on the FUDS Program, including maps and data on individual sites, visit the Army Corps of Engineers website at:

Agency File Date: 5/29/2018

Received by EDM: 1/25/2019

EDM Database Updated: 1/25/2019

<http://www.usace.army.mil/Missions/Environmental/Formerly-Used-Defense-Sites/>

FUDS Munitions Response Sites

The DoD developed the Military Munitions Response Program (MMRP) in 2001 to address munitions-related concerns, including explosive safety, environmental, and health hazards from releases of unexploded ordnance (UXO), discarded military munitions (DDM), and munitions constituents (MC) found at locations, other than operational ranges, on active and Base Realignment and Closure (BRAC) installations and Formerly Used Defense Sites (FUDS) properties. The MMRP addresses non-operational range lands with suspected or known hazards from munitions and explosives of concern (MEC) which occurred prior to September 2002, but are not already included with an Installation Response Program (IRP) site cleanup activity. For more information on the FUDS MMRP Program, including maps and data on individual sites, visit the Army Corps of Engineers website at:

Agency File Date: 5/14/2018

Received by EDM: 1/25/2019

EDM Database Updated: 1/25/2019

<http://www.asaie.army.mil/Public/ESOH/mmrp.html>

Groundwater Contamination Areas

The Ground Water Contamination Areas GIS layer is a statewide map showing the boundaries of delineated areas of known groundwater contamination pursuant to Chapter 62-524, F.A.C., New Potable Water Well Permitting In Delineated Areas. 38 Florida counties have been delineated primarily for the agricultural pesticide ethylene dibromide (EDB), and to a much lesser extent, volatile organic and petroleum contaminants. This GIS layer represents approximately 427,897 acres in 38 counties in Florida that have been delineated for groundwater contamination. However, it does not represent all known sources of groundwater contamination for the state of Florida.

This information is intended to be used by regulatory agencies issuing potable water well construction permits in areas of ground water contamination to protect public health and the ground water resource. Permitted water wells in these areas must meet specific well construction criteria and water testing prior to well use. This dataset only indicates the presence or absence of specific groundwater contaminants and does not represent all known sources of groundwater contamination in the state of Florida.

Agency File Date: 8/15/2022

Received by EDM: 8/15/2022

EDM Database Updated: 9/7/2022

<https://floridadep.gov/water/source-drinking-water/content/delineated-areas>

Institutional Controls

The FDEP Institutional Controls GIS layer is a statewide map showing the approximate boundaries of delineated areas where Institutional Controls are in place.

An institutional control provides for certain restrictions on a property. For example, a site may be cleaned up to satisfy commercial contamination target levels and an institutional control may be placed on that property indicating that it may only be used for commercial activities. If the owner of the property ever wanted to use that property for residential purposes, the owner would have to ensure that any contamination meets residential target levels.

The locational data for this layer is provided by the responsible party and reviewed by FDEP staff. Neither FDEP or EDM assumes responsibility for the accuracy of the boundary data.

Agency File Date: 6/23/2023

Received by EDM: 7/20/2023

EDM Database Updated: 7/20/2023

<https://ca.dep.state.fl.us/mapdirect/?webmap=cff8d21797184421ab4763d3e4a01e48>

National Priorities List

The US EPA National Priorities List (NPL) contains facilities and/or locations where environmental contamination has been confirmed and prioritized for cleanup activities under the Superfund Program. EDM's NPL site boundaries data include sites that are currently on the NPL as well as sites that have been Proposed, Withdrawn and/or Deleted from the list.

Agency File Date: 11/14/2018

Received by EDM: 12/10/2018

EDM Database Updated: 1/22/2019

<https://www.epa.gov/superfund/search-superfund-sites-where-you-live>

Solid Waste Facilities

The FDEP SLDWST list identifies locations that have been permitted to conduct solid waste handling activities.

Agency File Date: 7/27/2023

Received by EDM: 8/1/2023

EDM Database Updated: 8/2/2023

<https://floridadep.gov/waste>

State Funded Cleanup Sites

The FDEP State Funded Cleanup list contains facilities and/or locations where there are no viable responsible parties; the site poses an imminent hazard; and the site does not qualify for Superfund or is a low priority for EPA. Remedial efforts at these sites are currently being addressed through State funded cleanup action.

Agency File Date: 6/19/2023

Received by EDM: 7/12/2023

EDM Database Updated: 7/13/2023

<https://floridadep.gov/waste/waste-cleanup/documents/state-funded-cleanup-program-site-list>

APPENDIX E – SUPPLEMENTAL INFORMATION



Department of Environmental Protection

Lawton Chiles
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

August 29, 1996

Mr. David Hire
Coastal Resource Management, Inc.
2029 Bayside Parkway
Fort Meyers, Florida 33901

RE: Oleum Corporation site
FDEP Facility ID#368520618

Dear Mr. Hire:

Chapter 96-277, Laws of Florida, affecting all petroleum cleanup sites went into effect on July 1, 1996. This law requires the Department of Environmental Protection (FDEP) to fund work on eligible sites in priority order. This law also requires the Department to preapprove the scope of work and costs of all petroleum cleanup program tasks utilizing state funds.

Thank you for your letter requesting preapproval to continue work at this facility. Based upon this site's score of 07, funding is not available to work at this facility under the preapproval program this year. If you have any questions, please contact the Petroleum Cleanup Section at (904) 487-3299.

Sincerely,

Brian J. Dougherty
Environmental Administrator
Bureau of Waste Cleanup

cc: Vince Mele, FDEP South District
File



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

JAN 29 2018

(Sent via email only to addressee at smoore@earthsys.net)

Scott Moore
Earth Systems, Inc.
445 Lantana Road
Lantana FL, 33462

Subject: Deliverable Review
BP-BONITA-OLEUM CORP
9021 Bonita Beach Rd.
Bonita Springs, Lee County
FDEP Facility ID# 368520618
Discharge Date: 11/17/1994, PLRIP
Site Score: 10

Dear Mr. Moore:

The Petroleum Restoration Program (PRP) has reviewed the Task 3 Deliverable (Revised Template Site Assessment Report (TSAR)) dated January 2, 2018 (received January 29, 2018 and due February 21, 2018, original report due January 8, 2018 and received January 2, 2018), submitted for this facility. The Revised Template Site Assessment Report is acceptable and demonstrates the work outlined in Purchase Order (PO) # AFE071/B0D4A2 for Task 3 was satisfactorily performed.

This completes PO # AFE071/B0D4A2. The eligible discharge at this site has been adequately characterized for risk. This facility will be placed back into priority score order to await funding.

The approved cost for completion of Task 3 is \$20,596.80 [approved amount includes retainage] as detailed on the attached rate sheet. Please include the rate sheet when you submit your invoice to PRP Accounting. The invoice should be submitted within 30 days of receipt of this approval letter/e-mail.

Mr. Scott Moore
Page 2
FACID 368520618

JAN 29 2018

If you have any questions concerning the site assessment review, please contact me at 850-877-1133 ext. 3722 or at the letterhead address, Mail Station 4590.

Sincerely,

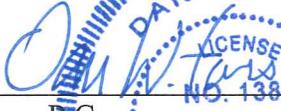


Jon Labie
Site Manager
Ecology and Environment, Inc.
Petroleum Restoration Section 6
Email: jlalie@ene.com



Felicia Mizener, E.I.
Contract Manager/Engineering Specialist III
Petroleum Restoration Program
Florida Department of Environmental Protection
Felicia.Mizener@dep.state.fl.us

Reviewed by:


Dan W. Foss, P.G.
Ecology & Environment, Inc.
Petroleum Restoration Section 6

01/29/18
Date

/JL

cc: Mr. Scott Moore, Earth Systems Inc., 445 Lantana Road Lantana, FL 33462
Bradley M. Newman, Fifth Third Bank, 4427 W. Kennedy Blvd. Tampa, FL 33609

File

Petroleum Contamination Site Response Action Services
SCHEDULE OF PAY ITEMS INVOICE RATE SHEET

PAY ITEM	DESCRIPTION	UNIT OF MEASURE	PO Rate Sheet		Previously Invoiced	This Invoice		Balance
			UNITS	NEGOTIATED ITEM PRICE		TOTAL EXTENDED PRICE	UNITS	
9-36.	Water, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	20	\$ 45.00	\$ 900.00	0	\$ -	14
9-38.	Water, Arsenic, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	1	\$ 10.00	\$ 10.00	1	\$ -	0
9-39.	Water, Cadmium, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	1	\$ 10.00	\$ 10.00	1	\$ -	0
9-40.	Water, Chromium, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	1	\$ 10.00	\$ 10.00	1	\$ -	0
9-41.	Water, Lead, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	1	\$ 10.00	\$ 10.00	1	\$ -	0
12-6.	Transport and Disposal of Petroleum Impacted Soil (includes drum)	Per Drum	34	\$ 165.00	\$ 5,610.00	9	\$ -	25
12-13.	Transport and Disposal of Petroleum Contact Water (includes drum)	Per Drum	10	\$ 210.00	\$ 2,100.00	0	\$ -	10
19-27.	Interim Assessment Report	Per Report	1	\$ 520.00	\$ 520.00	1	\$ -	0
	RETAINAGE				\$ 2,620.83	\$ 952.68		\$ 1,668.15
	SUBTOTAL				\$ 52,416.60	\$ 19,053.60		\$ 33,363.00
Task 3								
1-4.	Permit Fees (actual fee only, cost to obtain permit is included in applicable pay items)	Reimbursable*	300	\$ 1.00	\$ 300.00	0	\$ 230.00	70
1-5.	Off-Site Property Access Agreement	Per Agreement	1	\$ 250.00	\$ 250.00	0	\$ 250.00	0
1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	300	\$ 0.06	\$ 18.00	0	\$ 13.80	70
3-2.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - > 100 miles each way	Per Round Trip	2	\$ 500.00	\$ 1,000.00	0	\$ 1,000.00	0
3-10.a.	Mobilization, Heavy Duty Vehicle (truck, trailer or semi) - > 100 miles each way	Per Round Trip	1	\$ 1,320.00	\$ 1,320.00	0	\$ 1,320.00	0
3-18.	Mini Excavator/Loader (Bobcat™) Mobilization - > 100 miles each way	Per Round Trip	1	\$ 400.00	\$ 400.00	0	\$ 400.00	0
4-1.a.	Per Diem - For travel > 1 consecutive day (prorated in quarter day increments in accordance with 112.061, F.S.) - Travel Voucher required and quoted rate should be per person per day	Per Person, Per Day	10	\$ 80.00	\$ 800.00	0	\$ 760.00	0.5
5-1.b.	Sonic Boring - 5 or 10 foot (during boring)	Per Core	24	\$ 90.00	\$ 2,160.00	0	\$ 1,926.00	2.6
5-15.	Sonic Boring, ≤ 6 inch diameter, < 50 foot total depth	Per Foot	117	\$ 27.00	\$ 3,159.00	0	\$ 2,484.00	25
5-18.	Sonic Boring, > 6 to 10 inch diameter, < 50 foot total depth	Per Foot	75	\$ 35.00	\$ 2,625.00	0	\$ 2,275.00	10
6-2.a.	Well Installation - 2 inch diameter (vertical)	Per Foot	117	\$ 38.00	\$ 4,446.00	0	\$ 3,496.00	25
8-1.	Monitoring Well Sampling with Water Level, ≤ 100 foot depth	Per Well	4	\$ 255.00	\$ 1,020.00	0	\$ 1,020.00	0
8-6.	Soil/Sediment Sample Collection	Per Sample	1	\$ 130.00	\$ 130.00	0	\$ -	1
8-11.	Electronic Data Deliverables (EDD)	Per Sampling Event	1	\$ 54.00	\$ 54.00	0	\$ 54.00	0
9-11.	Soil, Arsenic (EPA 6010 or EPA 6020)	Per Sample	1	\$ 11.00	\$ 11.00	0	\$ -	1
9-12.	Soil, Cadmium (EPA 6010 or EPA 6020)	Per Sample	1	\$ 11.00	\$ 11.00	0	\$ -	1
9-13.	Soil, Chromium (EPA 6010 or EPA 6020)	Per Sample	1	\$ 11.00	\$ 11.00	0	\$ -	1
9-14.	Soil, Lead (EPA 6010 or EPA 6020)	Per Sample	1	\$ 11.00	\$ 11.00	0	\$ -	1
9-15.	Soil, Toxicity Characteristic Leaching Procedure-Extraction Only (EPA 1311)	Per Sample	1	\$ 30.00	\$ 30.00	0	\$ -	1
9-27.	Water, BTEX + MTBE (EPA 602, EPA 624, EPA 8021 or EPA 6260)	Per Sample	4	\$ 38.00	\$ 152.00	0	\$ 152.00	0
9-30.	Water, Polycyclic Aromatic Hydrocarbons, including tri-nitrophenylmethane (TPM) and 1,2,3,4-dibenz[a,h]anthracene (DBA) (EPA 8210)	Per Sample	4	\$ 74.00	\$ 296.00	0	\$ 296.00	0
9-36.	Water, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	4	\$ 45.00	\$ 180.00	0	\$ 180.00	0
9-41.	Water, Lead, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	1	\$ 10.00	\$ 10.00	0	\$ -	1
12-6.	Transport and Disposal of Petroleum Impacted Soil (includes drum)	Per Drum	8	\$ 165.00	\$ 1,320.00	0	\$ 980.00	2
19-3.	General Site Assessment Report	Per Report	1	\$ 3,200.00	\$ 3,200.00	0	\$ 3,200.00	0
21-15.	P.G. or Qualified P.E. Review, Evaluation and Certification of a General Site Assessment Report	Per Report	1	\$ 550.00	\$ 550.00	0	\$ 550.00	0
23-1.	Contingent Funding - Allowance only to be used as offset for field change orders	NOT BILLABLE	7000	\$ 1.00	\$ 7,000.00	n/a	n/a	7000
	RETAINAGE				\$ 1,523.20	\$ -	\$ 1,029.84	\$ 493.36
	SUBTOTAL				\$ 30,464.00	\$ -	\$ 20,596.80	\$ 9,867.20
	TOTAL COST				\$ 83,100.60	\$ 19,053.60	\$ 20,596.80	\$ 43,450.20
	Owner Cost Share:				\$ -	\$ -	\$ -	\$ -

ORDER NO. C246EF

Issued on Tuesday, August 8, 2023 EDT
 Created on Tuesday, August 8, 2023 EDT by Elisha McCleary (Contracts) on behalf of James Yurkovich (Contracts)

SUPPLIER:

Advanced Environmental Technologies, LLC
 5910 Breckenridge Pkwy
 Tampa, FL 33610
 United States
 Phone: +1 (863) 614-0693
 Fax: +1 850-208-3210
 Contact: Kim McGowan

TOTAL AMOUNT
\$74,605.68000 USD

SHIP TO:

DEP-PETROLEUM RESTORATION PROGRAM
 2600 BLAIR STONE RD
 BMC RM 420 MS 4575
 TALLAHASSEE, FL 32399
 United States

BILL TO:

DEP-PETROLEUM RESTORATION PROGRAM
 2600 BLAIR STONE RD
 BMC RM 420 MS 4575
 TALLAHASSEE, FL 32399
 United States

DELIVER TO:

James Yurkovich (Contracts)
 Organization Code:
 Description: PETROLEUM TANKS CLEANUP
 Expansion Opt:
 Description:
 Object Code:
 Description: ENGINEERING SERVICES - ENVIRONMENTAL
 Transaction Fee Exempt?: No
 Transaction Fee Exempt Reason:

VersionNumber: 1

PUI:

ID: 3701
 Name: 3701 - FDEP Contracts
 PO Start Date: Tuesday, August 8, 2023 GMT
 PO End Date: Monday, April 29, 2024 GMT

Site Code:

ID: 370000-12
 Name: 12
 Encumber Funds: Yes
 Entity Description: Department of Environmental Protection

LINE ITEM DETAILS (1 LINE ITEM)

NO.	DESCRIPTION	PART NUMBER	QTY	NEED-BY DATE	UNIT PRICE	AMOUNT	ORDER CONFIRMATION STATUS
1	Contractor has been selected to perform Site		74,605.68 Dollar	-	\$1.00000 USD	\$74,605.68000 USD	Unconfirmed
	...						

Full Description: Contractor has been selected to perform Site Assessment (SA) at BP-Bonita-Oleum-Corp, 9021 Bonita Beach Rd, Bonita Springs, Lee County, Florida, FAC ID 368520618. Attachment A, Scope of Work, attached to the purchase order (PO) describes the work to be completed by the Contractor. All work shall be performed in accordance with the terms of the Agency Term

Contract (ATC). The PRP reference number for this project is 833-048A.

Attached hereto and made a part of this PO is Attachment B - Schedule of Pay Items and Other Related Documents. Pay Items are at or below the negotiated maximum rates included in the ATC. Contractor must submit the appropriate completed documents from Attachment B to the Site Manager with each deliverable, as instructed. Upon completion and approval of all work under this PO, Contractor shall submit a signed Release of Claims document, along with the final invoice. Contractor must include Subcontractor Utilization Report form, included as a tab on Attachment B, with each invoice.

The Department will retain 5% of the total amount of each payment made. Contractor may submit a request for release of retainage upon completion, and DEP approval of, all work performed under this PO.

The Department will evaluate the Contractor as specified in the Agency Term Contract.

The Contractor agrees to perform the services described in the PO in accordance with the terms of its ATC (as those terms may have been amended) which are in effect on date of issuance of the PO. The applicable ATC terms are available at the following URL: <https://facts.fldfs.com/Search/ContractDetail.aspx?AgencyId=370000&ContractId=GC833>

Req. Line No.: 1

Requester: James Yurkovich (Contracts)

PR No.: PR321583

Method of Procurement: J - Agency ITN [s 287.057(1) (c), F.S.]

Shipping Method: Best Way

Solicitation #: 2014004C

State Contract ID:

Prime Vendor:

incoTerm:

TOTAL AMOUNT
\$74,605.68000 USD

COMMENTS

- Elisha McCleary (Contracts), 08/02/2023:
The following attachments are attached hereto and made a part of this Purchase Order:
Attachment A – Scope of Work
Attachment B – Schedule of Pay Items & Other Related Documents (Elisha McCleary (Contracts), Wednesday, August 2, 2023 EDT)
- Jaylynn Lowery (Contracts), 08/08/2023:
Note: Attachment B language appearing in upper right-hand corner titled "Without Handling Fee" is used by the program to identify the total cost less the 6% handling and MFMP fee on reimbursable items. This information is only used as a check point for PRP staff. The total PO amount for the project is the amount appearing in the "Total Extended Cost" section in the upper right-hand side of the spreadsheet.

(Jaylynn Lowery (Contracts), Tuesday, August 8, 2023 EDT)

ATTACHMENTS

- ATTACHMENT by **Elisha McCleary (Contracts)** on *Wednesday, August 2, 2023 at 10:03 AM*
AttachmentA-SOW-368520618-SA.pdf (505282 bytes)
- ATTACHMENT by **Elisha McCleary (Contracts)** on *Thursday, August 3, 2023 at 3:31 PM*
AttachmentB-SPI-368520618-SA.zip (1230907 bytes)

TERMS AND CONDITIONS OF PURCHASE

Purchase Order Terms & Conditions

http://dms.myflorida.com/mfmp_PO_TC

**Attachment A
Petroleum Restoration Program
Scope of Work**

9-Digit Facility ID Number: 368520618

STCM Facility Name: BP-Bonita-Oleum-Corp

SubPhase(s): SA

Specifications

All work must be performed in accordance with this Scope of Work (SOW) and any attachments, Chapters 62-160, 62-532, 62-777 and 62-780, F.A.C., all applicable FDEP and Water Management District guidance memoranda, standard industry procedures and as described in the Agency Term Contract (ATC).

Copies of all referenced guidelines are available at:

<http://floridadep.gov/waste/petroleum-restoration>

Reports must be submitted using the appropriate FDEP forms found at:

<http://floridadep.gov/waste/petroleum-restoration/content/procedures-guidance-documents>

All work must be conducted in accordance with PRP Standard Specification Details found at:

<http://floridadep.gov/waste/petroleum-restoration/content/templates-forms-tools-and-guidance>

The following tables are included as attachments to this SOW and further represent the details of the scope of work.

- Water Sampling Table
 - Soil and Air Sampling Table
 - Soil Boring (SB) and Well Installation Table
-

Attachment A
Petroleum Restoration Program
Scope of Work

9-Digit Facility ID Number: 368520618

STCM Facility Name: BP-Bonita-Oleum-Corp

Task 1 Description: Prepare and submit a Health and Safety Plan. Conduct file review, prepare and submit historical summary worksheet. Research historic records and obtain electronic copies of historic data tables preceding 2016. If electronic tables are not available, document attempts to acquire data from prior consultant(s) and submit to SM as backup for an RFC to compile all historic data into comprehensive and cumulative analytical data tables, utilizing primary data sources (lab reports). Reconcile all historical site plans to produce figures depicting the location of all former tanks, dispensers, historic monitoring wells, groundwater grab, and soil analytical sample locations. Obtain off site access agreements, as necessary, with adjacent properties. Prepare and submit a comprehensive sampling proposal to address any outstanding soil or groundwater exceedances remaining on the site, offsite properties, and adjoining right-of-way. After approval of Health and Safety Plan and utility locate/mark-out per standards of care in the ATC, conduct site reconnaissance and pre-drilling meeting with site manager and driller. Prepare and submit area survey table, location map, area map, site map, photo documentation, and field notes to include: date, start and end time, list of participating parties, confirmation the operating business owner/tenant recognizes the scope of work prior to field activities. No permits are anticipated; review and notify the Site Manager in writing of all necessary permitting requirements, submit RFC as needed to acquire permits. Please note that per the DEP site access agreement, a separate site access agreement between the owner and the ATC has been requested by the property owner or tenant. Submit an email or letter (copying the owner or tenant) indicating either that this separate site access agreement has been executed or that the owner no longer wants such an agreement with the contractor (the owner is content with the current DEP site access agreement). The DEP does not need a copy of this agreement. Prepare and submit a Task 2 (SOW) proposal.

Task 1 Deliverable: Health and Safety Plan, Historical Summary Worksheet, SAA email or letter, Pre-drill & Reconnaissance Field Notes, and Task 2 SOW proposal.

Task 1 Deliverable Due Date: Friday, October 6, 2023

Attachment A
Petroleum Restoration Program
Scope of Work

9-Digit Facility ID Number: 368520618
STCM Facility Name: BP-Bonita-Oleum-Corp

Task 2 Description: Upon approval by Sarasota County: Install 6 replacement wells (MW-3R, 5R, 7R, 8R, 9DR, and 11R) and screen soils from drill cuttings. Install 1 MW and 13 soil borings at the locations indicated in the attached Figures 1B and 3B and screen soils from drill cuttings during boring installation. Expedite IDW analysis and dispose of soils by roll-off. Collect one vadose zone soil sample from each soil boring at the specified interval based upon initial assessment screening and analysis that identified intervals with greatest impacts. If any soil borings have indications of petroleum contamination (visual staining, olfactory, or OVA > 50 ppm) based upon soil screening in the field, request a field change order (call SM from field) to delineate the area of impacted vadose zone soils. Collect only one sample from a boring and ensure all samples are collected above measured or apparent water table and analyze. Obtain SM approval before performing SPLP or TRPH fractionation. Collect groundwater samples and analyze. If additional assessment is recommended and with SM approval, prepare and submit an Interim Assessment Report with field notes, pre-drill meeting notes, lab reports, logs, photos, Task 3 SOW proposal, COMPREHENSIVE TABLES AND FIGURES (depicting all relevant historical features). If assessment is complete, prepare and submit an RFC to change the Task 2 deliverable to a Supplement Site Assessment Report, do not submit the report until confirming with the SM that soil and groundwater delineation is complete, and RFC is approved in MFMP.

Task 2 Deliverable: Interim Assessment Report

Task 2 Deliverable Due Date: Friday, December 15, 2023

**Attachment A
Petroleum Restoration Program
Scope of Work**

9-Digit Facility ID Number: 368520618

STCM Facility Name: BP-Bonita-Oleum-Corp

Task 3 Description: Upon approval by Sarasota County:
Conduct a Pre-Drilling Teleconference with site manager and driller; prepare and submit teleconference notes to include date, start and end time, and participants. Confirm owner/tenant understands the scope of work prior to field activities.
Install up to 3 wells and 6 soil borings at the agreed upon locations and screen soils from drill cuttings during boring installation. All drums must be filled to at least 75% capacity and photo documentation provided to verify.
Collect one vadose zone soil sample from each boring at the specified intervals based upon initial assessment screening and analysis that identified intervals with greatest impacts. If any soil borings have indications of petroleum contamination (visual staining, olfactory, or OVA > 50 ppm) based upon soil screening in the field, request a field change order (call site manager from field) to delineate the area of impacted vadose zone soils. Collect only one sample from a boring and ensure all samples are collected above measured or apparent water table and analyze. Obtain site manager approval before performing SPLP or TRPH fractionation.
Collect groundwater samples and analyze. Prepare and submit a Supplemental Site Assessment Report with field notes, pre-drill meeting notes, lab reports, logs, photos, SOW proposal, COMPREHENSIVE TABLES AND FIGURES (depicting all relevant historical features). Do not submit the report until confirming with the site manager that soil and groundwater delineation is complete. If additional soil or groundwater delineation is required, prepare and submit an RFC to change the Task 3 deliverable to a Interim Assessment Report. Contingent Funding in this task is only to be used to offset the cost for pay items associated with a Field Request for Change for any open task.

Task 3 Deliverable: Supplemental Site Assessment Report

Task 3 Deliverable Due Date: Thursday, February 29, 2024

PO End Date: Monday, April 29, 2024

Schedule of Pay Items (SPI)

All unit rates and extended prices for all line item costs associated with this project are provided in the SPI [Attachment B to this Purchase Order (PO)] and shall not exceed the rates established in the ATC.

Requests for Change (RFC)

All requests for changes to the SOW must be submitted in writing and be approved in writing by the FDEP/LP using the RFC form in accordance with paragraphs 2.A and 26 of the ATC and can be found at:

<http://floridadep.gov/waste/petroleum-restoration/content/templates-forms-tools-and-guidance>

Any change which results in an extension of the due dates, PO end date, or a change in quantities or costs, requires that a PO Change Order be formally issued prior to performance of the revised SOW.

Performance Measures

The FDEP/LP Site Manager will review the submitted documentation to confirm that all work was performed in accordance with the Specifications referenced above. The FDEP/LP Site Manager will notify the Contractor of acceptance or any deficiencies in the work and/or deliverables. The Contractor will be given an opportunity to remedy deficiencies at no additional cost to the FDEP.

Attachment A
Petroleum Restoration Program
Scope of Work

9-Digit Facility ID Number: 368520618

STCM Facility Name: BP-Bonita-Oleum-Corp

The FDEP/LP Site Manager will review the work and/or deliverables within the timeframes established in FDEP guidance documents. The Contractor will respond to any comments to complete the work and/or deliverables within the timeframe established in the comment letter or email correspondence.

Invoicing, Payments and Financial Consequences

The Contractor may submit an invoice for a Task upon written notification of acceptance of the work/deliverables by the FDEP/LP Site Manager. Upon receipt of FDEP/LP written approval of the required documentation for completed portions of each task, the Contractor must submit an invoice within thirty (30) days. Invoices for completed work may be submitted at any time for fully completed and approved tasks, but no more frequently than every thirty (30) days, for approved partial tasks. Each invoice request must contain all documentation of performance as specified in the ATC, this Purchase Order (PO), and its attachments.

Failure to provide all deliverables which are satisfactory or failure to meet the specified deliverable timetables, shall result in non-payment, loss of retainage, or other financial consequences, and/or termination of the PO, as specified in the ATC. If the deliverable due day occurs on a weekend, state holiday, or federal holiday the deliverable will be due the following business day.

Retainage shall be withheld in the amount of 5%, unless otherwise noted in the SPI, from each payment by the FDEP/LP until completion and approval of all Tasks. The Contractor shall submit a Release of Claims and request for retainage payment with the final invoice. Payment of retainage will be reduced by the amount of any assessed financial consequences.

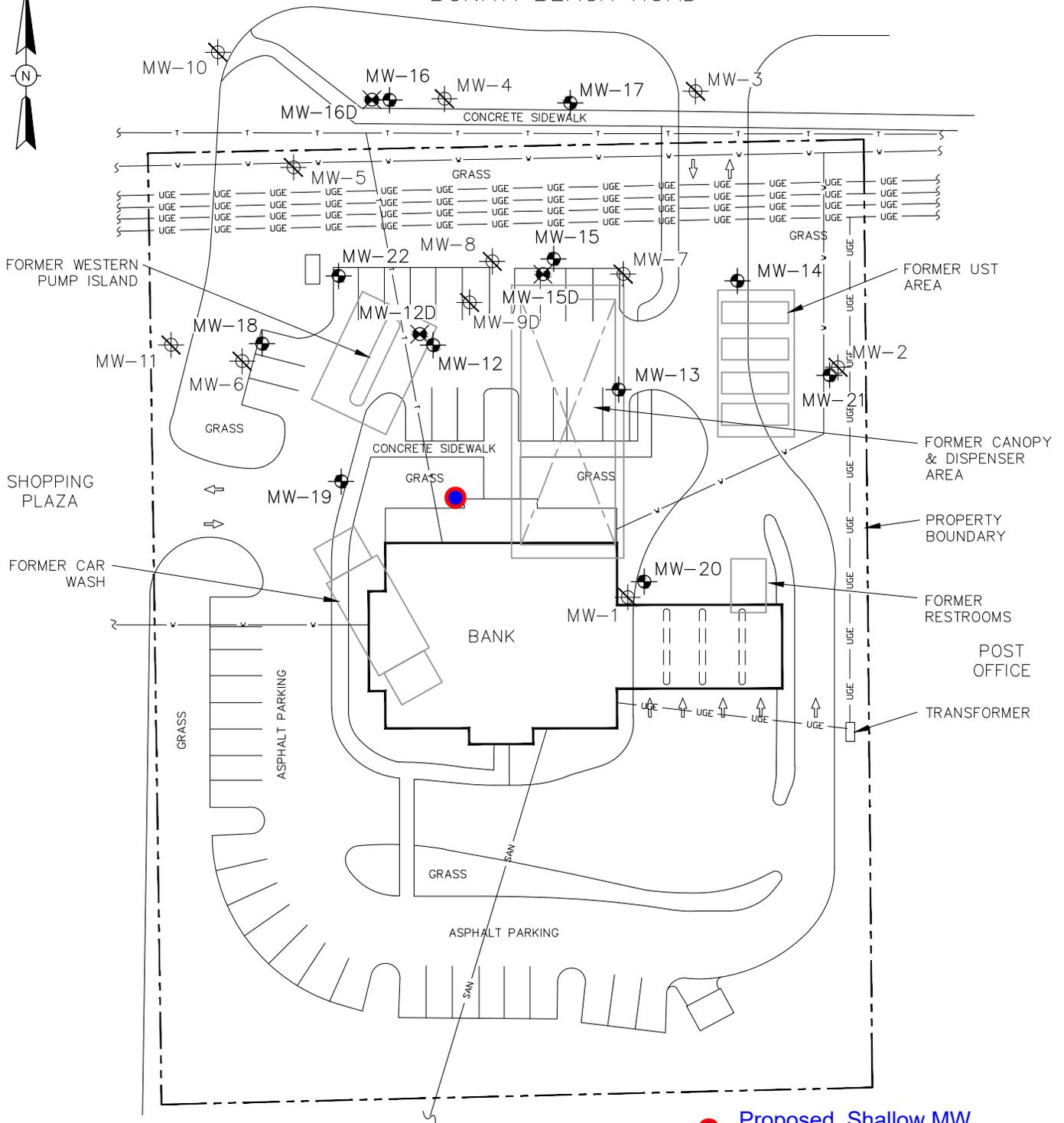
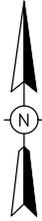
Notice of Field Activities

The Contractor must provide written notification (emails are acceptable) of field activities at least seven (7) calendar days prior to the commencement of work to all applicable parties including the PRP site manager, PRP Inspector (PRP_Inspector@dep.state.fl.us), site operator, site owner, RP and affected off-site property owners.

Deliverables

All deliverables under this Purchase Order must be electronic. Paper copies should not be submitted unless the deliverable requires a Professional Engineer (PE) or Professional Geologist (PG) signature and seal, and the electronic signature and seal does not meet the requirements in Chapters 61G15 or 61G16, Florida Administrative Code, as applicable.

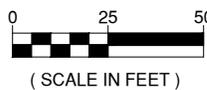
BONITA BEACH ROAD



Proposed Shallow MW Location

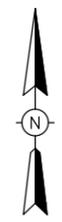
RESIDENTIAL

LEGEND	
	SHALLOW MONITORING WELL LOCATION
	DEEP MONITORING WELL LOCATION
	DESTROYED MONITORING WELL LOCATION
	UNDERGROUND WATER / FIRE LINE
	UNDERGROUND TELECOMMUNICATION LINE
	UNDERGROUND ELECTRIC LINE
	UNDERGROUND ELECTRIC LINE



SITE PLAN	
Former BP Bonita-Oleum Corp. FDEP FAC. ID NO.: 36/8520618 9021 Bonita Beach Road, Bonita Springs, Florida	
	Figure 1B

BONITA BEACH ROAD



2/1/2017 OVA = >1000 ● 1'-2' BLS	
B	0.695
T	0.072 U
E	11.6
X	3.32
M	0.072 U
N	2.67
1-M	1.88
2-M	3.62
TR	39.0
C-9-C-10	NA
C-5-C-8	NA
C-9-C-12	NA
B SPLP	2.8
E SPLP	64.3 V
X SPLP	16.7
N SPLP	2.6
1-M SPLP	1.6
2-M SPLP	1.3

7/28/2017 OVA = >1000 ● 2'-3' BLS	
B	3.94
T	0.322
E	71.4
X	1.88
M	0.057 U
N	40.5
1-M	25.8
2-M	42.8
TR	553
C-9-C-10	441
C-5-C-8	717
C-9-C-12	420
B SPLP	NA
E SPLP	NA
X SPLP	NA
N SPLP	348
1-M SPLP	83.0
2-M SPLP	126

7/28/2017 OVA = >1000 ● 1'-2' BLS	
B	0.248 I
T	0.149 I
E	43.2
X	0.326 I
M	0.066 U
N	17.7
1-M	9.99
2-M	20.0
TR	507
C-9-C-10	321
C-5-C-8	728
C-9-C-12	329
B SPLP	2.7
E SPLP	171
X SPLP	24.1
N SPLP	189
1-M SPLP	53.1
2-M SPLP	77.2

2/1/2017 OVA = 41.9 ● 2'-3' BLS	
B	0.0012 U
T	0.0010 U
E	0.0010 U
X	0.0021 U
M	0.0010 U
N	0.028 U
1-M	0.028 U
2-M	0.028 U
TR	5.31 I
C-9-C-10	NA
C-5-C-8	NA
C-9-C-12	NA
B SPLP	NA
E SPLP	NA
N SPLP	NA
1-M SPLP	NA
2-M SPLP	NA

2/1/2017 OVA = >1000 ● 1'-2' BLS			OVA = >1000 ● 3'-4' BLS		
B	0.086 U	5.29			
T	0.070 U	1.06 I			
E	1.15	101			
X	0.515 I	111			
M	0.070 U	0.53 U			
N	1.91	54.5			
1-M	1.40	33.3			
2-M	2.37	70.2			
TR	35.5	1300			
C-9-C-10	NA	2210			
C-5-C-8	NA	3290			
C-9-C-12	NA	1980			
B SPLP	0.53 I	NA			
E SPLP	8.9 V	NA			
X SPLP	5.4	NA			
N SPLP	16.4	363			
1-M SPLP	5.2	86.3			
2-M SPLP	7.1	138			

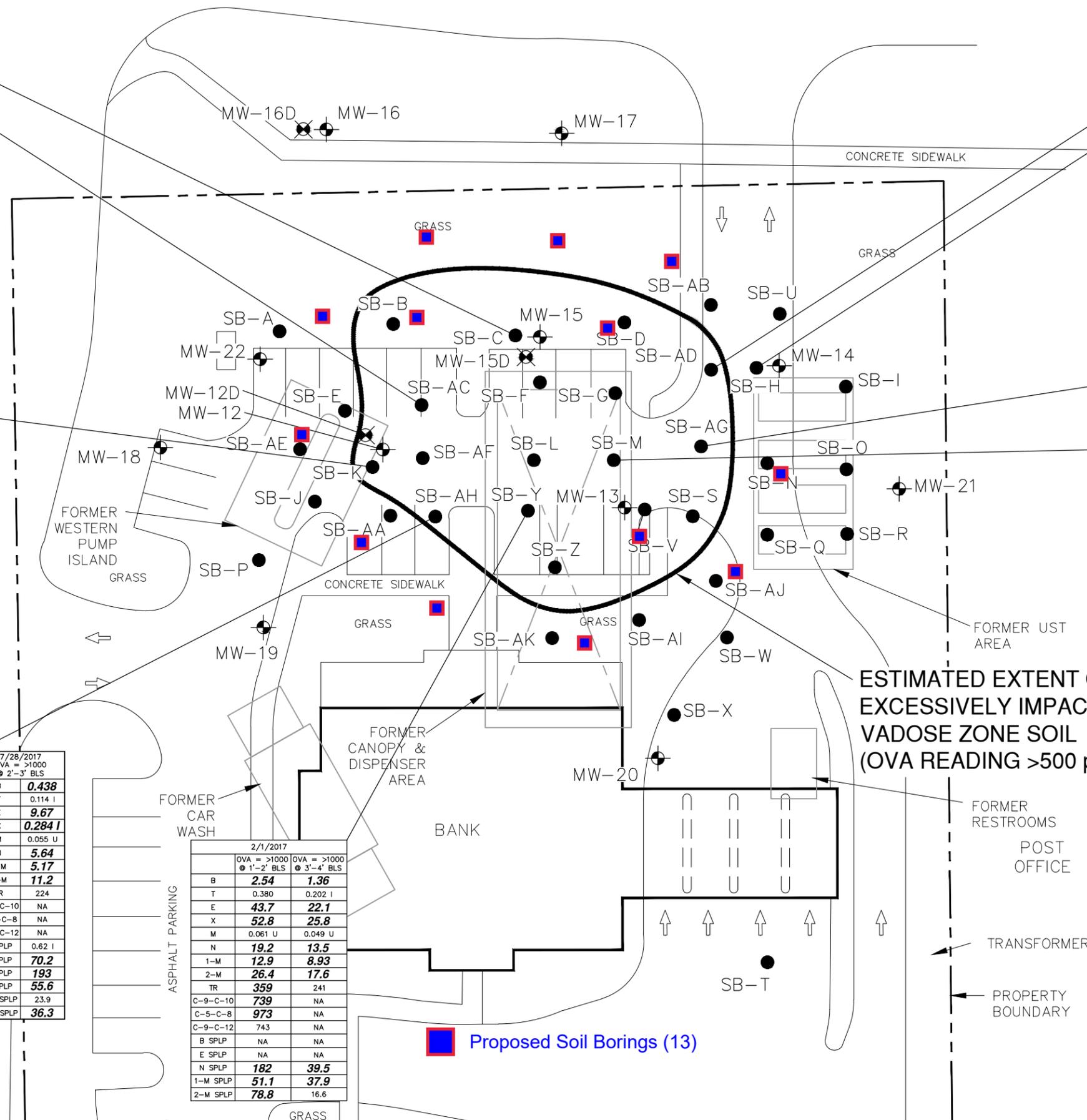
2/1/2017 OVA = >1000 ● 1'-2' BLS			OVA = >1000 ● 3'-4' BLS		
B	1.12	0.529			
T	0.0706 I	0.051 U			
E	22.8	11.2			
X	0.410 I	0.287 I			
M	0.050 U	0.051 U			
N	17.9	20.0			
1-M	12.5	11.6			
2-M	26.4	25.3			
TR	437	323			
C-9-C-10	403	NA			
C-5-C-8	642	NA			
C-9-C-12	492	NA			
B SPLP	5.5	4.2			
E SPLP	91.2 V	85.7 V			
X SPLP	3.4	3.5			
N SPLP	248	179			
1-M SPLP	78.1	52.7			
2-M SPLP	115	78.7			

7/28/2017 OVA = >1000 ● 1'-2' BLS	
B	0.852
T	0.286
E	13.2
X	0.295 I
M	0.052 U
N	15.1
1-M	9.63
2-M	18.9
TR	274
C-9-C-10	NA
C-5-C-8	NA
C-9-C-12	NA
B SPLP	1.3
E SPLP	36.7
X SPLP	12.3
N SPLP	139
1-M SPLP	37.9
2-M SPLP	58.8

LEGEND	
⊕	SHALLOW MONITORING WELL LOCATION
⊗	DEEP MONITORING WELL LOCATION
●	SOIL BORING LOCATION
OVA	ORGANIC VAPOR ANALYZER
ppm	PARTS PER MILLION
BLS	BELOW LAND SURFACE
B	BENZENE (mg/kg)
T	TOLUENE (mg/kg)
E	ETHYLBENZENE (mg/kg)
X	TOTAL XYLENES (mg/kg)
M	MTBE (mg/kg)
N	NAPHTHALENE (mg/kg)
1-M	1-METHYLNAPHTHALENE (mg/kg)
2-M	2-METHYLNAPHTHALENE (mg/kg)
TR	TRPH (mg/kg)
C-9-C-10	C-9-C10 AROMATICS
C-5-C-8	C-5-C8 ALIPHATICS
C-9-C-12	C-9-C12 ALIPHATICS
B SPLP	BENZENE SPLP
E SPLP	ETHYLBENZENE SPLP
X SPLP	TOTAL XYLENES SPLP
N SPLP	NAPHTHALENE SPLP
1-M SPLP	1-METHYLNAPHTHALENE SPLP
2-M SPLP	2-METHYLNAPHTHALENE SPLP
SPLP	SYNTHETIC PRECIPITATE LEACHING PROCEDURE (CONCENTRATION IN ug/L)
V	DETECTED IN SAMPLE AND METHOD BLANK
U	BELOW LAB DETECTION LIMIT
I	MDL < RESULTS < REPORTING LIMIT
BOLD	CONCENTRATIONS IN BOLD EXCEED LIMITS

7/28/2017 OVA = >1000 ● 2'-3' BLS	
B	0.438
T	0.114 I
E	9.67
X	0.284 I
M	0.055 U
N	5.64
1-M	5.17
2-M	11.2
TR	224
C-9-C-10	NA
C-5-C-8	NA
C-9-C-12	NA
B SPLP	0.62 I
E SPLP	70.2
X SPLP	193
N SPLP	55.6
1-M SPLP	23.9
2-M SPLP	36.3

2/1/2017 OVA = >1000 ● 1'-2' BLS			OVA = >1000 ● 3'-4' BLS		
B	2.54	1.36			
T	0.380	0.202 I			
E	43.7	22.1			
X	52.8	25.8			
M	0.061 U	0.049 U			
N	19.2	13.5			
1-M	12.9	8.93			
2-M	26.4	17.6			
TR	359	241			
C-9-C-10	739	NA			
C-5-C-8	973	NA			
C-9-C-12	743	NA			
B SPLP	NA	NA			
E SPLP	NA	NA			
N SPLP	182	39.5			
1-M SPLP	51.1	37.9			
2-M SPLP	78.8	16.6			



SOIL SAMPLING RESULTS

(FEBRUARY 1 & JULY 28, 2017)

Former BP Bonita-Oleum Corp.
FDEP FAC. ID NO.: 36/8520618
9021 Bonita Beach Road, Bonita Springs, Florida

Figure 3B

Florida Department of Environmental Protection - Petroleum Restoration Program

FDEP Facility ID#: 368520618

STCM Facility Name: BP-Bonita-Oleum-Corp

Any blank fields are not applicable to the scope of work.

WATER SAMPLING TABLE																			
Task #	Well #(s) or Water Sample Location	Frequency (if applicable)	Expedited Turnaround (TA)	Water Level/FP Gauging Only (8-7.)	# MWs Sampled (8-1./8-2.)	(9-27.) BTEX + MTBE	(9-30.) PAHs	(9-36.) TRPH (FL-PRO)	(9-38.) Arsenic, Total	(9-39.) Cadmium, Total	(9-40.) Chromium, Total	(9-41.) Lead, Total	(9-55.) Priority Pollutant Volatile Organics (PFOA)						
1	MW-12, MW-14, and MW-20			3															
2	IDW		1-day TA			1			1	1	1	1							
2	MW-3R, 5R, 7R, 8R, 9DR, 11R, Plus New MW				7	7	7	7				7							
2	SPLP					13	13												
2	MW-12D, 13, 16, 16D, 17, 18, 19, 20, 21, & 22				10	10	10	10				10							
2	MW-12, 15, 14				3		3	3				3	3						
3	3 Contingency MWs, 7 New Replacement MWs (from Task 2)				10	10	10	10				10							
3	Contingency SPLPs					6	6												
Task 1 Subtotal				3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Task 2 Subtotal				0	20	31	33	20	1	1	1	21	3	0	0	0	0	0	0
Task 3 Subtotal				0	10	16	16	10	0	0	0	10	0	0	0	0	0	0	0
GRAND TOTALS				3	30	47	49	30	1	1	1	31	3	0	0	0	0	0	0

Florida Department of Environmental Protection - Petroleum Restoration Program

FDEP Facility ID#: 368520618

STCM Facility Name: BP-Bonita-Oleum-Corp

Any blank fields are not applicable to the scope of work.

SOIL and AIR SAMPLING TABLE																		
Task #	Soil /Air Sample Locations	Frequency (if applicable)	Expedited Turnaround (TA)	Depth Interval (if applicable)	(9-2.) BTEX + MTBE	(9-5.) PAHs	(9-8.) TRPH (FL-PRO)	(9-15.) TCLP-Extraction Only	(9-16.) SPLP-Extraction Only	(9-8.a.) TRPH Fractionation								(8-14.) Encore Sampler
2	IDW							1										
2	13 Hand Auger Borings			Vadose 2-3'	13	13	13		26	13								13
3	6 Contingency Hand Auger Borings			Vadose	6	6	6		12	6								6
Task 2 Subtotal					13	13	13	1	26	13	0	0	0	0	0	0	0	13
Task 3 Subtotal					6	6	6	0	12	6	0	0	0	0	0	0	0	6
GRAND TOTALS					19	19	19	1	38	19	0	0	0	0	0	0	0	19

Florida Department of Environmental Protection - Petroleum Restoration Program

FDEP Facility ID#: 368520618

STCM Facility Name: BP-Bonita-Oleum-Corp

Any blank fields are not applicable to the scope of work.

SOIL BORING (SB) and WELL INSTALLATION TABLE																	
SOIL BORING DETAILS					Screening/Split Spoon Intervals			WELL INSTALLATION DETAILS									
TASK #	Installation Method	Quantity	Depth (ft bls)	Total Boring Footage (ft)	Screening Depth Interval 1 & Spacing	Screening Depth Interval 2 & Spacing	Screening Depth Interval 3 & Spacing	Quantity	Well Type	Well Diameter (in)	Depth (ft bls)	Screen Interval (ft bls)	Total Well Footage (ft)	Surface Casing Diameter (in)	Surface Casing Depth (ft)	Total Casing Footage (ft)	Well Completion Type
2	Combo Rig	6	12	72				6	MW	2	12	2'-12'	72			0	8" MH
2	Combo Rig	1	25	25				1	IW	2	25	20'-25'	25	6	18	18	8" MH
2	Hand Auger	13	6	78	0-6'@1'								0			0	
3	HSA/MR	3	12	36				3	MW	2	12	2'-12'	36			0	8" MH
3	Hand Auger	6	6	36	0-6'@1'								0			0	
TOTALS				247									133			18	

**Petroleum Contamination Site Response Action Services
SCHEDULE OF PAY ITEMS WORKSHEET**

Facility Name: BP-BONITA-OLEUM CORP
 7-Digit Facility ID #: 8520618
 County: 36
 Region: South
 Site Manager Name: JAMES YURKOVICH
 Site Manager Phone: (941)861-0911
 Site Manager Email: jyurkovich@scgov.net

PAY ITEM	DESCRIPTION	UNIT OF MEASURE	CONTRACTED ITEM PRICE	NEGOTIATED ITEM PRICE	TOTAL QUANTITIES	<input checked="" type="checkbox"/> TASK 1 QUANT.	<input checked="" type="checkbox"/> TASK 2 QUANT.	<input checked="" type="checkbox"/> TASK 3 QUANT.	<input type="checkbox"/> TASK 4 QUANT.	<input type="checkbox"/> TASK 5 QUANT.	<input type="checkbox"/> TASK 6 QUANT.	<input type="checkbox"/> TASK 7 QUANT.	<input type="checkbox"/> TASK 8 QUANT.	<input type="checkbox"/> TASK 9 QUANT.	<input type="checkbox"/> TASK 10 QUANT.
1-1.	File Review	Per Review	\$ 652.05	\$ 652.05	1	1									
1-2.	Site Health & Safety Plan	Per Site	\$ 262.11	\$ 262.11	1	1									
1-4.	Permit Fees (actual fee only, cost to obtain permit is included in applicable pay items)	Reimbursable*	\$ 1.00	\$ 1.00	500		350	150							
1-5.	Off-Site Property Access Agreement	Per Agreement	\$ 458.40	\$ 458.40	1	1									
1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	\$ 0.06	\$ 0.06	500	0	350	150	0	0	0	0	0	0	0
2-1.	Site Reconnaissance/Field Measurement Visit	Per Visit	\$ 720.36	\$ 720.36	1	1									
3-2.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - > 100 miles each way	Per Round Trip	\$ 677.65	\$ 677.65	6	2	2	2							
3-9.a.	Drill Rig and Support Vehicles Mobilization (hollow stem auger, mud rotary or sonic) - ≤ 100 miles each way	Per Round Trip	\$ 1,304.10	\$ 1,304.10	2		1	1							
3-17.	Mini Excavator/Loader (Bobcat™) Mobilization - ≤ 100 miles each way	Per Round Trip	\$ 470.86	\$ 470.86	1		1								
4-1.a.	Per Diem - For travel > 1 consecutive day (prorated in quarter day increments in accordance with 112.061, F.S.) - Travel Voucher required and quoted rate should be per person per day	Per Person, Per Day	\$ 80.00	\$ 80.00	13	1	8	4							
5-2.	Hand Auger Boring ≤ 10 foot total depth	Per Boring	\$ 182.80	\$ 182.80	19		13	6							
5-6.	HSA or MR Boring, ≤ 6 inch diameter, < 50 foot total depth	Per Foot	\$ 28.71	\$ 28.71	25		25								
5-9.	HSA or MR Boring, > 6 to 10 inch diameter, < 50 foot total depth	Per Foot	\$ 39.35	\$ 39.35	108		72	36							
5-12.	HSA or MR Boring, > 10 to 14 inch diameter, < 50 foot total depth	Per Foot	\$ 51.53	\$ 51.53	18		18								
6-2.a.	Well Installation - 2 inch diameter (vertical)	Per Foot	\$ 43.59	\$ 43.59	133		97	36							
6-5.	Surface Casing - 6 inch diameter	Per Foot	\$ 56.34	\$ 56.34	18		18								
8-1.	Monitoring Well Sampling with Water Level, ≤ 100 foot depth	Per Well	\$ 265.70	\$ 265.70	30		20	10							
8-6.	Soil/Sediment Sample Collection	Per Sample	\$ 138.46	\$ 138.46	19		13	6							
8-7.	Water Level or Free Product Gauging	Per Well	\$ 31.03	\$ 31.03	3	3									
8-11.	Electronic Data Deliverables (EDD)	Per Sampling Event	\$ 136.92	\$ 136.92	4		2	2							
8-14.	Encore (25 gram) for SPLP Soil Sample Collection: [Per Encore]. The cost will include the 25 gram Encore samples submitted to the laboratory for SPLP testing and the 25 gram Encore samples collected in the field but not submitted to the laboratory for testing (discarded).	Per Sample	\$ 17.91	\$ 17.91	19		13	6							
9-2.	Soil, BTEX + MTBE (EPA 8021 or EPA 8260)	Per Sample	\$ 59.31	\$ 59.31	19		13	6							
9-5.	Soil, Polycyclic Aromatic Hydrocarbons (EPA 8270 or EPA 8310)	Per Sample	\$ 120.17	\$ 120.17	19		13	6							
9-8.	Soil, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	\$ 94.16	\$ 94.16	19		13	6							

**Petroleum Contamination Site Response Action Services
SCHEDULE OF PAY ITEMS WORKSHEET**

PAY ITEM	DESCRIPTION	UNIT OF MEASURE	CONTRACTED ITEM PRICE	NEGOTIATED ITEM PRICE	TOTAL QUANTITIES	<input checked="" type="checkbox"/> TASK 1 QUANT.	<input checked="" type="checkbox"/> TASK 2 QUANT.	<input checked="" type="checkbox"/> TASK 3 QUANT.	<input type="checkbox"/> TASK 4 QUANT.	<input type="checkbox"/> TASK 5 QUANT.	<input type="checkbox"/> TASK 6 QUANT.	<input type="checkbox"/> TASK 7 QUANT.	<input type="checkbox"/> TASK 8 QUANT.	<input type="checkbox"/> TASK 9 QUANT.	<input type="checkbox"/> TASK 10 QUANT.
9-8.a.	Soil, TRPH Fractionation (MADEP-EPH/VPH Method or TPHCWG Direct Method)	Per Sample	\$ 340.36	\$ 340.36	19		13	6							
9-15.	Soil, Toxicity Characteristic Leaching Procedure-Extraction Only (EPA 1311)	Per Sample	\$ 50.70	\$ 50.70	1		1								
9-16.	Soil, Synthetic Precipitation Leaching Procedure-Extraction Only (EPA1312)	Per Sample	\$ 39.53	\$ 39.53	38		26	12							
9-27.	Water, BTEX + MTBE (EPA 602, EPA 624, EPA 8021 or EPA 8260)	Per Sample	\$ 59.31	\$ 59.31	47		31	16							
9-30.	Water, Polycyclic Aromatic Hydrocarbons, including 1-methylnaphthalene + 2-methylnaphthalene (EPA 610 [HPLC], EPA 625, EPA 8270 or EPA 8310)	Per Sample	\$ 114.44	\$ 114.44	49		33	16							
9-33.	Water, Priority Pollutant Volatile Organics (EPA 8260)	Per Sample	\$ 114.45	\$ 114.45	3		3								
9-36.	Water, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	\$ 89.69	\$ 89.69	30		20	10							
9-38.	Water, Arsenic, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	\$ 7.23	\$ 7.23	1		1								
9-39.	Water, Cadmium, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	\$ 7.23	\$ 7.23	1		1								
9-40.	Water, Chromium, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	\$ 7.23	\$ 7.23	1		1								
9-41.	Water, Lead, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	\$ 7.59	\$ 7.59	31		21	10							
9-77.	Additional Laboratory % Surcharge authorized in the ATC contract for 1 Day Turnaround. The price should be a total of all standard costs for analysis receiving 1 Day Turnaround in each Task. Enter this price in the Quant. column for the associated task. The rate is the % surcharge authorized in the ATC contract (% surcharge is calculated using the item price, where: \$1.00 = 100%, \$0.75 = 75%, ect.). This will be payable per sample per % surcharge utilizing the dollars as the number of units.	Percent Surcharge	\$ 1.24	\$ 1.24	88.59		88.59								
12-6.	Transport and Disposal of Petroleum Impacted Soil (includes drum)	Per Drum	\$ 253.55	\$ 253.55	4			4							
12-8.	Transport Petroleum Impacted Soil (bulk) > 100 miles	Per Ton	\$ 38.02	\$ 38.02	3		3								
12-11.	Disposal of Petroleum Impacted Soil at a Thermal Treatment Facility (bulk) ≤ 450 tons	Per Ton	\$ 41.27	\$ 41.27	3		3								
12-17.	Delivery, Pick Up and Rental of 20 Cubic Yard Roll-Off Container	Per Week	\$ 1,206.28	\$ 1,206.28	1		1								
19-4.	Supplemental Site Assessment Report	Per Report	\$ 1,944.53	\$ 1,944.53	1			1							
19-27.	Interim Assessment Report	Per Report	\$ 791.44	\$ 791.44	1		1								
20-6.	Scientist/Technical Specialist (Key)	Per Hour	\$ 108.68	\$ 108.68	4	2		2							
21-16.	P.G. or Qualified P.E. Review, Evaluation and Certification of a Supplemental Site Assessment Report	Per Report	\$ 391.23	\$ 391.23	1			1							
23-1.	Contingent Funding - Allowance only to be used as offset for field change orders	NOT BILLABLE	\$ 1.00	\$ 1.00	5000			5000							

Version: 13.0

*For reimbursable pay items the cost listed is a "not to exceed" amount. Fees will be reimbursed for the pay item based on the actual invoice. Please note, the unit of measure for these items will be displayed as dollars for invoicing purposes. Please refer to the Scope of Work for additional description of these items.

**Petroleum Contamination Site Response Action Services
SCHEDULE OF PAY ITEMS INVOICE RATE SHEET**

Facility Name: BP-BONITA-OLEUM CORP
 7-Digit Facility ID #: 8520618
 County: 36
 Region: South
 Site Manager Name: JAMES YURKOVICH
 Site Manager Phone: (941)861-0911
 Site Manager Email: jyurkovich@scgov.net

Contractor: ADVANCED ENVIRONMENTAL TECHNOLOGIES, LLC.
 CID #: 00462 Retainage %: 5% Purchase Order:
 Contract #: GC833 FDEP Cost Share %: 100.00% Download Date: 6/30/23 16:36
 SPI ID #: 29372 Total Extended Cost: \$ 74,605.68 Assignment Type: CSF
 Without Handling Fee: \$ 74,575.68
 Transition Agreement: Yes No

PAY ITEM	DESCRIPTION	UNIT OF MEASURE	PO Rate Sheet			Previously Invoiced	This Invoice		Balance
			UNITS	NEGOTIATED ITEM PRICE	TOTAL EXTENDED PRICE	UNITS	UNITS	EXTENDED PRICE	UNITS
Task 1									
1-1.	File Review	Per Review	1	\$ 652.05	\$ 652.05	0	0	\$ -	1
1-2.	Site Health & Safety Plan	Per Site	1	\$ 262.11	\$ 262.11	0	0	\$ -	1
1-5.	Off-Site Property Access Agreement	Per Agreement	1	\$ 458.40	\$ 458.40	0	0	\$ -	1
2-1.	Site Reconnaissance/Field Measurement Visit	Per Visit	1	\$ 720.36	\$ 720.36	0	0	\$ -	1
3-2.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - > 100 miles each way	Per Round Trip	2	\$ 677.65	\$ 1,355.30	0	0	\$ -	2
4-1.a.	Per Diem - For travel > 1 consecutive day (prorated in quarter day increments in accordance with 112.061, F.S.) - Travel Voucher required and quoted rate should be per person per day	Per Person, Per Day	1	\$ 80.00	\$ 80.00	0	0	\$ -	1
8-7.	Water Level or Free Product Gauging	Per Well	3	\$ 31.03	\$ 93.09	0	0	\$ -	3
20-6.	Scientist/Technical Specialist (Key)	Per Hour	2	\$ 108.68	\$ 217.36	0	0	\$ -	2
		RETAINAGE			\$ 191.93	\$ -		\$ -	\$ 191.93
		SUBTOTAL			\$ 3,838.67	\$ -		\$ -	\$ 3,838.67
Task 2									
1-4.	Permit Fees (actual fee only, cost to obtain permit is included in applicable pay items)	Reimbursable*	350	\$ 1.00	\$ 350.00	0	0	\$ -	350
1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	350	\$ 0.06	\$ 21.00	0	0	\$ -	350
3-2.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - > 100 miles each way	Per Round Trip	2	\$ 677.65	\$ 1,355.30	0	0	\$ -	2
3-9.a.	Drill Rig and Support Vehicles Mobilization (hollow stem auger, mud rotary or sonic) - ≤ 100 miles each way	Per Round Trip	1	\$ 1,304.10	\$ 1,304.10	0	0	\$ -	1
3-17.	Mini Excavator/Loader (Bobcat™) Mobilization - ≤ 100 miles each way	Per Round Trip	1	\$ 470.86	\$ 470.86	0	0	\$ -	1
4-1.a.	Per Diem - For travel > 1 consecutive day (prorated in quarter day increments in accordance with 112.061, F.S.) - Travel Voucher required and quoted rate should be per person per day	Per Person, Per Day	8	\$ 80.00	\$ 640.00	0	0	\$ -	8
5-2.	Hand Auger Boring ≤ 10 foot total depth	Per Boring	13	\$ 182.80	\$ 2,376.40	0	0	\$ -	13
5-6.	HSA or MR Boring, ≤ 6 inch diameter, < 50 foot total depth	Per Foot	25	\$ 28.71	\$ 717.75	0	0	\$ -	25
5-9.	HSA or MR Boring, > 6 to 10 inch diameter, < 50 foot total depth	Per Foot	72	\$ 39.35	\$ 2,833.20	0	0	\$ -	72
5-12.	HSA or MR Boring, > 10 to 14 inch diameter, < 50 foot total depth	Per Foot	18	\$ 51.53	\$ 927.54	0	0	\$ -	18
6-2.a.	Well Installation - 2 inch diameter (vertical)	Per Foot	97	\$ 43.59	\$ 4,228.23	0	0	\$ -	97
6-5.	Surface Casing - 6 inch diameter	Per Foot	18	\$ 56.34	\$ 1,014.12	0	0	\$ -	18
8-1.	Monitoring Well Sampling with Water Level, ≤ 100 foot depth	Per Well	20	\$ 265.70	\$ 5,314.00	0	0	\$ -	20
8-6.	Soil/Sediment Sample Collection	Per Sample	13	\$ 138.46	\$ 1,799.98	0	0	\$ -	13
8-11.	Electronic Data Deliverables (EDD)	Per Sampling Event	2	\$ 136.92	\$ 273.84	0	0	\$ -	2
8-14.	Encore (25 gram) for SPLP Soil Sample Collection: [Per Encore]. The cost will include the 25 gram Encore samples submitted to the laboratory for SPLP testing and the 25 gram Encore samples collected in the field but not submitted to the laboratory for testing (discarded).	Per Sample	13	\$ 17.91	\$ 232.83	0	0	\$ -	13
9-2.	Soil, BTEX + MTBE (EPA 8021 or EPA 8260)	Per Sample	13	\$ 59.31	\$ 771.03	0	0	\$ -	13
9-5.	Soil, Polycyclic Aromatic Hydrocarbons (EPA 8270 or EPA 8310)	Per Sample	13	\$ 120.17	\$ 1,562.21	0	0	\$ -	13
9-8.	Soil, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	13	\$ 94.16	\$ 1,224.08	0	0	\$ -	13

**Petroleum Contamination Site Response Action Services
SCHEDULE OF PAY ITEMS INVOICE RATE SHEET**

PAY ITEM	DESCRIPTION	UNIT OF MEASURE	PO Rate Sheet			Previously Invoiced	This Invoice		Balance
			UNITS	NEGOTIATED ITEM PRICE	TOTAL EXTENDED PRICE	UNITS	UNITS	EXTENDED PRICE	UNITS
9-8.a.	Soil, TRPH Fractionation (MADEP-EPH/VP Method or TPHCWG Direct Method)	Per Sample	13	\$ 340.36	\$ 4,424.68	0	0	\$ -	13
9-15.	Soil, Toxicity Characteristic Leaching Procedure-Extraction Only (EPA 1311)	Per Sample	1	\$ 50.70	\$ 50.70	0	0	\$ -	1
9-16.	Soil, Synthetic Precipitation Leaching Procedure-Extraction Only (EPA1312)	Per Sample	26	\$ 39.53	\$ 1,027.78	0	0	\$ -	26
9-27.	Water, BTEX + MTBE (EPA 602, EPA 624, EPA 8021 or EPA 8260)	Per Sample	31	\$ 59.31	\$ 1,838.61	0	0	\$ -	31
9-30.	Water, Polycyclic Aromatic Hydrocarbons, including 1-methylnaphthalene + 2-methylnaphthalene (EPA 610 [HPLC], EPA 625, EPA 8270 or EPA 8310)	Per Sample	33	\$ 114.44	\$ 3,776.52	0	0	\$ -	33
9-33.	Water, Priority Pollutant Volatile Organics (EPA 8260)	Per Sample	3	\$ 114.45	\$ 343.35	0	0	\$ -	3
9-36.	Water, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	20	\$ 89.69	\$ 1,793.80	0	0	\$ -	20
9-38.	Water, Arsenic, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	1	\$ 7.23	\$ 7.23	0	0	\$ -	1
9-39.	Water, Cadmium, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	1	\$ 7.23	\$ 7.23	0	0	\$ -	1
9-40.	Water, Chromium, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	1	\$ 7.23	\$ 7.23	0	0	\$ -	1
9-41.	Water, Lead, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	21	\$ 7.59	\$ 159.39	0	0	\$ -	21
9-77.	Additional Laboratory % Surcharge authorized in the ATC contract for 1 Day Turnaround. The price should be a total of all standard costs for analysis receiving 1 Day Turnaround in each Task. Enter this price in the Quant. column for the associated task. The rate is the % surcharge authorized in the ATC contract (% surcharge is calculated using the item price, where: \$1.00 = 100%, \$0.75 = 75%, ect.). This will be payable per sample per % surcharge utilizing the dollars as the number of units.	PercentSurcharge	88.59	\$ 1.24	\$ 109.85	0	0	\$ -	88.59
12-8.	Transport Petroleum Impacted Soil (bulk) > 100 miles	Per Ton	3	\$ 38.02	\$ 114.06	0	0	\$ -	3
12-11.	Disposal of Petroleum Impacted Soil at a Thermal Treatment Facility (bulk) ≤ 450 tons	Per Ton	3	\$ 41.27	\$ 123.81	0	0	\$ -	3
12-17.	Delivery, Pick Up and Rental of 20 Cubic Yard Roll-Off Container	Per Week	1	\$ 1,206.28	\$ 1,206.28	0	0	\$ -	1
19-27.	Interim Assessment Report	Per Report	1	\$ 791.44	\$ 791.44	0	0	\$ -	1
		RETAINAGE			\$ 2,159.92	\$ -		\$ -	\$ 2,159.92
		SUBTOTAL			\$ 43,198.43	\$ -		\$ -	\$ 43,198.43
Task 3									
1-4.	Permit Fees (actual fee only, cost to obtain permit is included in applicable pay items)	Reimbursable*	150	\$ 1.00	\$ 150.00	0	0	\$ -	150
1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	150	\$ 0.06	\$ 9.00	0	0	\$ -	150
3-2.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - > 100 miles each way	Per Round Trip	2	\$ 677.65	\$ 1,355.30	0	0	\$ -	2
3-9.a.	Drill Rig and Support Vehicles Mobilization (hollow stem auger, mud rotary or sonic) - ≤ 100 miles each way	Per Round Trip	1	\$ 1,304.10	\$ 1,304.10	0	0	\$ -	1
4-1.a.	Per Diem - For travel > 1 consecutive day (prorated in quarter day increments in accordance with 112.061, F.S.) - Travel Voucher required and quoted rate should be per person per day	Per Person, Per Day	4	\$ 80.00	\$ 320.00	0	0	\$ -	4
5-2.	Hand Auger Boring ≤ 10 foot total depth	Per Boring	6	\$ 182.80	\$ 1,096.80	0	0	\$ -	6
5-9.	HSA or MR Boring, > 6 to 10 inch diameter, < 50 foot total depth	Per Foot	36	\$ 39.35	\$ 1,416.60	0	0	\$ -	36
6-2.a.	Well Installation - 2 inch diameter (vertical)	Per Foot	36	\$ 43.59	\$ 1,569.24	0	0	\$ -	36
8-1.	Monitoring Well Sampling with Water Level, ≤ 100 foot depth	Per Well	10	\$ 265.70	\$ 2,657.00	0	0	\$ -	10
8-6.	Soil/Sediment Sample Collection	Per Sample	6	\$ 138.46	\$ 830.76	0	0	\$ -	6
8-11.	Electronic Data Deliverables (EDD)	Per Sampling Event	2	\$ 136.92	\$ 273.84	0	0	\$ -	2
8-14.	Encore (25 gram) for SPLP Soil Sample Collection: [Per Encore]. The cost will include the 25 gram Encore samples submitted to the laboratory for SPLP testing and the 25 gram Encore samples collected in the field but not submitted to the laboratory for testing (discarded).	Per Sample	6	\$ 17.91	\$ 107.46	0	0	\$ -	6
9-2.	Soil, BTEX + MTBE (EPA 8021 or EPA 8260)	Per Sample	6	\$ 59.31	\$ 355.86	0	0	\$ -	6
9-5.	Soil, Polycyclic Aromatic Hydrocarbons (EPA 8270 or EPA 8310)	Per Sample	6	\$ 120.17	\$ 721.02	0	0	\$ -	6
9-8.	Soil, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	6	\$ 94.16	\$ 564.96	0	0	\$ -	6

**Petroleum Contamination Site Response Action Services
SCHEDULE OF PAY ITEMS INVOICE RATE SHEET**

PAY ITEM	DESCRIPTION	UNIT OF MEASURE	PO Rate Sheet			Previously Invoiced	This Invoice		Balance
			UNITS	NEGOTIATED ITEM PRICE	TOTAL EXTENDED PRICE	UNITS	UNITS	EXTENDED PRICE	UNITS
9-8.a.	Soil, TRPH Fractionation (MADEP-EPH/VPH Method or TPHCWG Direct Method)	Per Sample	6	\$ 340.36	\$ 2,042.16	0	0	\$ -	6
9-16.	Soil, Synthetic Precipitation Leaching Procedure-Extraction Only (EPA1312)	Per Sample	12	\$ 39.53	\$ 474.36	0	0	\$ -	12
9-27.	Water, BTEX + MTBE (EPA 602, EPA 624, EPA 8021 or EPA 8260)	Per Sample	16	\$ 59.31	\$ 948.96	0	0	\$ -	16
9-30.	Water, Polycyclic Aromatic Hydrocarbons, including 1-methylnaphthalene + 2-methylnaphthalene (EPA 610 [HPLC], EPA 625, EPA 8270 or EPA 8310)	Per Sample	16	\$ 114.44	\$ 1,831.04	0	0	\$ -	16
9-36.	Water, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	10	\$ 89.69	\$ 896.90	0	0	\$ -	10
9-41.	Water, Lead, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	10	\$ 7.59	\$ 75.90	0	0	\$ -	10
12-6.	Transport and Disposal of Petroleum Impacted Soil (includes drum)	Per Drum	4	\$ 253.55	\$ 1,014.20	0	0	\$ -	4
19-4.	Supplemental Site Assessment Report	Per Report	1	\$ 1,944.53	\$ 1,944.53	0	0	\$ -	1
20-6.	Scientist/Technical Specialist (Key)	Per Hour	2	\$ 108.68	\$ 217.36	0	0	\$ -	2
21-16.	P.G. or Qualified P.E. Review, Evaluation and Certification of a Supplemental Site Assessment Report	Per Report	1	\$ 391.23	\$ 391.23	0	0	\$ -	1
23-1.	Contingent Funding - Allowance only to be used as offset for field change orders	NOT BILLABLE	5000	\$ 1.00	\$ 5,000.00	n/a	n/a	n/a	5000
		RETAINAGE			\$ 1,378.43	\$ -		\$ -	\$ 1,378.43
		SUBTOTAL			\$ 27,568.58	\$ -		\$ -	\$ 27,568.58
		TOTAL COST			\$ 74,605.68	\$ -		\$ -	\$ 74,605.68
				Owner Cost Share:	\$ -	\$ -		\$ -	\$ -
				FDEP Cost Share:	\$ 74,605.68	\$ -		\$ -	\$ 74,605.68
				Retainage:	\$ 3,730.28	\$ -		\$ -	\$ 3,730.28
				FDEP Less Retainage:	\$ 70,875.40	\$ -		\$ -	\$ 70,875.40

Version: 13.0

Site Manager Approval: _____
 Print Name

 Signature

 Date of Review Letter

Request for Change - Authorization for Change in Scope of Work

9-Digit Facility ID #: 368520618
 Facility Name: BP-BONITA-OLEUM CORP
 Site Manager Name: JAMES YURKOVICH
 Site Manager Phone: (941)861-0911
 Site Manager Email: jyurkovich@scgov.net

Ref #: _____
 FDEP Cost Share %: 100.00%
 Contract #: GC833
 Contractor: ADVANCED ENVIRONMENTAL TECHNOLOGIES, LLC.
 Contractor Phone: _____

PO #: _____
 CO #: _____
 CO Type: _____

This is an authorization for the costs associated with the change in quantities of services being provided and/or deliverable due dates. In order for these costs to be paid, these changes must be processed through a change order to the purchase requisition and a revised Purchase Order issued by MFMP prior to initiating work.

Description of Change and Justification: Include complete description of who, what, where, when, how and why.

TASK	PAY ITEM	DESCRIPTION	UNIT OF MEASURE	PAY ITEM PRICE	QUANTITY	EXTENDED PRICE
1	1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	\$0.06	0	\$ -
2	1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	\$0.06	0	\$ -
3	1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	\$0.06	0	\$ -
4	1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	\$0.06	0	\$ -
5	1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	\$0.06	0	\$ -
6	1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	\$0.06	0	\$ -
7	1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	\$0.06	0	\$ -
8	1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	\$0.06	0	\$ -
9	1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	\$0.06	0	\$ -
10	1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	\$0.06	0	\$ -
						\$ -
						\$ -

Request for Change - Authorization for Change in Scope of Work

9-Digit Facility ID #: 368520618
 Facility Name: BP-BONITA-OLEUM CORP

Ref #: _____
 FDEP Cost Share %: 100.00%

PO #: _____
 CO #: _____

						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-

Request for Change - Authorization for Change in Scope of Work

9-Digit Facility ID #: 368520618
 Facility Name: BP-BONITA-OLEUM CORP

Ref #: _____
 FDEP Cost Share %: 100.00%

PO #: _____
 CO #: _____

						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-

Request for Change - Authorization for Change in Scope of Work

9-Digit Facility ID #: 368520618
 Facility Name: BP-BONITA-OLEUM CORP

Ref #: _____
 FDEP Cost Share %: 100.00%

PO #: _____
 CO #: _____

						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-

Request for Change - Authorization for Change in Scope of Work

9-Digit Facility ID #: 368520618
 Facility Name: BP-BONITA-OLEUM CORP

Ref #: _____
 FDEP Cost Share %: 100.00%

PO #: _____
 CO #: _____

						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-

Request for Change - Authorization for Change in Scope of Work

9-Digit Facility ID #: 368520618
 Facility Name: BP-BONITA-OLEUM CORP

Ref #: _____
 FDEP Cost Share %: 100.00%

PO #: _____
 CO #: _____

						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-

Request for Change - Authorization for Change in Scope of Work

9-Digit Facility ID #: 368520618
 Facility Name: BP-BONITA-OLEUM CORP

Ref #: _____
 FDEP Cost Share %: 100.00%

PO #: _____
 CO #: _____

						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-

Request for Change - Authorization for Change in Scope of Work

9-Digit Facility ID #: 368520618
 Facility Name: BP-BONITA-OLEUM CORP

Ref #: _____
 FDEP Cost Share %: 100.00%

PO #: _____
 CO #: _____

						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-

Request for Change - Authorization for Change in Scope of Work

9-Digit Facility ID #: 368520618
 Facility Name: BP-BONITA-OLEUM CORP

Ref #: _____
 FDEP Cost Share %: 100.00%

PO #: _____
 CO #: _____

						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-
						\$	-

Request for Change - Authorization for Change in Scope of Work

9-Digit Facility ID #: 368520618
 Facility Name: BP-BONITA-OLEUM CORP

Ref #: _____
 FDEP Cost Share %: 100.00%

PO #: _____
 CO #: _____

*For reimbursable pay items the cost listed is a "not to exceed" amount. Fees will be reimbursed for the pay item based on the actual invoice. Please note, the unit of measure for these items will be displayed as dollars for invoicing purposes. Please refer to the Scope of Work for additional description of these items.

Task	Deliverable Name	Previous Due Date	New Due Date	Change Order Subtotals
1				\$ -
2				\$ -
3				\$ -
4				\$ -
5				\$ -
6				\$ -
7				\$ -
8				\$ -
9				\$ -
10				\$ -
Period of Service:				\$ -

Previous End Date New End Date **Total Authorized Cost**
 (FDEP Share: 100%)

Contractor Representative: _____
 (Print Name)

 (Signature)

 (Date)

FDEP Site Manager: JAMES YURKOVICH
 (Print Name)

 (Signature)

 (Date)

Administrative Reviewer: _____
 (Print Name)

 (Signature)

 (Date)

Technical Approval (optional): _____

Cost Center Approval (optional): _____

NOTE: THIS INVOICE REQUIRES ATTACHMENT OF DEP SITE MANAGER APPROVED SCHEDULE OF PAY ITEMS INVOICE RATE SHEET AND MUST BE SUBMITTED ON COMPANY LETTERHEAD.

Purchase Order #	FAC ID #	PRP Reference #	Invoice #	Invoice Date	Contractor ID	Final Invoice
	<u>368520618</u>				<u>00462</u>	Yes <input type="radio"/> No <input checked="" type="radio"/>
BP-BONITA-OLEUM CORP			to			
Facility Name			Service Start Date	Service End Date	PoS Extended	
Facility Address					<u>5%</u> Retainage Percent	

Vendor Remit Payment To:

 Agent : _____
 Email Address : _____
 Telephone : _____

Bill To :

Florida Dept. of Environmental Protection
 Petroleum Restoration Program
 2600 Blair Stone Road, M.S. 4575
 Tallahassee, Florida 32399-2400
 Submit invoices via email to:
 PRP_AcctingInvoices@dep.state.fl.us

FDEP Received Date

	Amount	Retainage
Purchase Order Amount	\$74,605.68	
Previously Invoiced	\$0.00	\$0.00
Available Purchase Order Balance	\$74,605.68	
<hr/>		
Amount Approved This Invoice	\$0.00	\$0.00
Forfeited Retainage		
Total Retainage Held		\$0.00
Retainage (Final Invoice)	\$0.00	
Total Amount Payable This Invoice	\$0.00	
<hr/>		
Purchase Order Balance Remaining	\$74,605.68	

NOTE: THIS INVOICE REQUIRES ATTACHMENT OF DEP SITE MANAGER APPROVED SCHEDULE OF PAY ITEMS INVOICE RATE SHEET AND MUST BE SUBMITTED ON COMPANY LETTERHEAD.

**Petroleum Contamination Site Response Action Services
INVOICE INSTRUCTIONS**

PRP INVOICE INSTRUCTIONS

PRP Invoices must be submitted on Company Letterhead and must be formatted in accordance with the attached Excel document.

Invoices must be submitted via email to PRP Accounting (**PRP_AcctingInvoices@dep.state.fl.us**).

Submitted invoices must include a copy of the PRP Deliverable Approval Letter including the DEP Site Manager approved invoice rate sheet specifying which costs may be invoiced, Subcontractor Utilization Form (required even if subcontractors are not utilized), Release of Claims (if final invoice), vendor invoice/receipt for all reimbursable pay items, and all supporting documentation in accordance with the Purchase Order (PO) that was issued from MyFloridaMarketPlace (MFMP).

The PRP Reference # and Facility Address at the top section of the Invoice sheet and the Purchase Order # at the top of the Invoice rate sheet must be entered by the Contractor and be in accordance with the PO.

The Invoice Number must be a unique number entered by the Contractor and cannot be "0", greater than nine characters, or a duplicate number.

The Invoice Date must be entered by the Contractor based on the date of invoicing.

- The Invoice Date may not predate the Service End Date or postdate the Program's received date of the invoice.

The Contractor must check a box to indicate whether or not this invoice is the final invoice for the associated Purchase Order.

- If yes, then retainage will be invoiced for and a release of claim form must be submitted along with the invoice.

"Service Start Date" and "Service End Date" must be entered by the Contractor based on the actual dates on which the invoiced task(s) was (were) performed.

- The "Service Start Date" may not predate the PO Start Date indicated on the PO.

- The "Service End Date" may not postdate the PO End Date indicated on the PO, and may not postdate the "Invoice Date". For the deliverable to be considered on time, the Service End Date may not postdate the deliverable due date.

"PoS Extended" should only be entered by the Contractor if the Period of Service was extended via issuance of a MFMP PO Change Order.

The Retainage Percent is prepopulated from the Invoice Rate Sheet worksheet.

All information requested on the "Vendor Remit Payment To:" section of the invoice must be entered by the Contractor.

The bottom section of the invoice (payment information) is prepopulated from the Invoice Rate Sheet. If DEP has notified the contractor that retainage was forfeited, the total forfeited amount must be entered in the appropriate block.

REVISED SUBCONTRACTOR UTILIZATION REPORT FORM FOR COMMODITIES/SERVICES

DIRECTIONS:

Contractors working for the Florida Department of Environmental Protection (DEP) **must complete and submit this attachment with each invoice submitted for payment.** Questions regarding use of this form should be directed to the Procurement Section (MS93), Florida Department of Environmental Protection, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, Phone 850/245-2361.

DEP Contract No.: <u>GC833</u> Invoice Number: _____ Task Assignment No. (if applicable): _____ Invoice Service Period: _____		INDICATE THE <u>ONE</u> CATEGORY THAT BEST DESCRIBES EACH ORGANIZATION LISTED																			
		BUSINESS CLASSIFICATION				CERTIFIED MBE				NON-CERTIFIED MBE				NON-PROFIT ORG.							
		NON-MINORITY	SMALL BUSINESS (STATE)	SMALL BUSINESS (FEDERAL)	GOVERNMENTAL AGENCY	NON-PROFIT ORGANIZATION	P.R.I.D.E.	AFRICAN AMERICAN	HISPANIC	ASIAN/HAWAIIAN	NATIVE AMERICAN	AMERICAN WOMAN	AFRICAN AMERICAN	HISPANIC	ASIAN/HAWAIIAN	NATIVE AMERICAN	AMERICAN WOMAN	BOARD IS 51% OR MORE MINORITY	51% OR MORE MINORITY OFFICERS	51% OR MORE MINORITY COMMUNITY SERVED	OTHER NON-PROFIT
LIST NAMES AND ADDRESSES OF SUBCONTRACTORS UTILIZED THIS INVOICE PERIOD		List Amount for Each Sub-contractor this Invoice Period to be Paid in Accordance with Section 376.3071(6), F.S.																			

Petroleum Contamination Site Response Action Services
REQUIRED DOCUMENTS FOR INVOICING

PAY ITEM	PAY ITEM DESCRIPTION	UNIT OF MEASURE	REQUIRED DOCUMENTATION FOR INVOICING
1.	OFFICE ACTIVITIES		
1-1.	File Review	Per Review	Historical Summary Worksheet
1-2.	Site Health & Safety Plan	Per Site	Complete HASP
1-2.a.	Site Health & Safety Plan for Continued Work (no cost to FDEP)	Per Site	Complete HASP
1-3.	Notice of Discovery of Contamination Package (Initial or TPOC)	Per Package	Complete noticing package
1-4.	Permit Fees (actual fee only, cost to obtain permit is included in applicable pay items)	Reimbursable*	Copy of permit and receipt
1-5.	Off-Site Property Access Agreement	Per Agreement	Copy of executed access agreement
1-5.a.	Site Property Access Agreement for Source Property (no cost to FDEP)	Per Agreement	Copy of executed access agreement
1-6.	Project Specific Financial Guarantee Bond (if required by FDEP)	Reimbursable*	Documentation of paid bond
1-7.	6% Handling Fee for Cost Reimbursable Items	Reimbursable*	Approval for payment of Reimbursable Items
2.	FIELD ACTIVITIES - GENERAL		
2-1.	Site Reconnaissance/Field Measurement Visit	Per Visit	Area survey table, location map, area map, site map, photo documentation and field notes
2-2.	Receptor Survey and Exposure Pathway Identification (excludes report)	Per Survey	Receptor Survey Worksheet, DOH map and well data
2-3.	Professional Land Survey subject to FDEP authorization to perform and the SPI displaying the cost not	Reimbursable*	Surveyor invoice and electronic and hard copy of PLS
2-4.	Contractor Oversight for Non-Price Schedule Activities	Per Day	Field Notes
3.	MOBILIZATION		
3-1.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - ≤ 100 miles each way	Per Round Trip	Field notes - documenting vehicle type
3-2.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - > 100 miles each way	Per Round Trip	Field notes - documenting vehicle type
3-3.	Heavy Duty/Stakebed Truck (3/4 ton +) - ≤ 100 miles each way	Per Round Trip	Field notes - documenting vehicle type
3-4.	Heavy Duty/Stakebed Truck (3/4 ton +) - > 100 miles each way	Per Round Trip	Field notes - documenting vehicle type
3-5.	Work Trailer - ≤ 100 miles each way	Per Round Trip	Field notes - documenting vehicle type
3-6.	Work Trailer - > 100 miles each way	Per Round Trip	Field notes - documenting vehicle type
3-7.a.	DPT Rig and Support Vehicles Mobilization - ≤ 100 miles each way	Per Round Trip	Field notes - documenting vehicle type
3-8.a.	DPT Rig and Support Vehicles Mobilization - > 100 miles each way	Per Round Trip	Field notes - documenting vehicle type
3-9.a.	Drill Rig and Support Vehicles Mobilization (hollow stem auger, mud rotary or sonic) - ≤ 100 miles each	Per Round Trip	Field notes - documenting vehicle type
3-10.a.	Drill Rig and Support Vehicles Mobilization (hollow stem auger, mud rotary or sonic) - > 100 miles each	Per Round Trip	Field notes - documenting vehicle type
3-11.	Excavator Mobilization - ≤ 100 miles each way	Per Round Trip	Field notes - documenting vehicle type
3-12.	Excavator Mobilization - > 100 miles each way	Per Round Trip	Field notes - documenting vehicle type
3-13.a.	LDA Rig and Support Vehicles Mobilization - ≤ 100 miles each way	Per Round Trip	Field notes - documenting vehicle type
3-14.a.	LDA Rig and Support Vehicles Mobilization - > 100 miles each way	Per Round Trip	Field notes - documenting vehicle type
3-15.	Loader/Backhoe Mobilization - ≤ 100 miles each way	Per Round Trip	Field notes - documenting vehicle type
3-16.	Loader/Backhoe Mobilization - > 100 miles each way	Per Round Trip	Field notes - documenting vehicle type
3-17.	Mini Excavator/Loader (Bobcat TM) Mobilization - ≤ 100 miles each way	Per Round Trip	Field notes - documenting vehicle type
3-18.	Mini Excavator/Loader (Bobcat TM) Mobilization - > 100 miles each way	Per Round Trip	Field notes - documenting vehicle type
3-19.	Drum Compactor mobilization - ≤ 100 miles each way	Per Round Trip	Field notes - documenting vehicle type
3-20.	Drum Compactor mobilization - > 100 miles each way	Per Round Trip	Field notes - documenting vehicle type
4.	MEALS AND LODGING		
4-1.a.	Per Diem - For travel > 1 consecutive day (prorated in quarter day increments in accordance with	Per Day	Field notes documenting personnel and travel times to and from site (with properly completed travel voucher)
4-1.b.	Per Diem - Contractor travel for specific meetings or legal proceedings required by Department (hotel	Reimbursable*	Field notes documenting personnel and travel times to and from site (with properly completed travel voucher)
5.	DRILLING AND BORING		
5-1.a.1.	Split Spoon Sampling - 2 foot (during boring) < 50 feet	Per Spoon	Field notes and boring logs
5-1.a.2.	Split Spoon Sampling - 2 foot (during boring) 50 to 100 feet	Per Spoon	Field notes and boring logs
5-1.a.3.	Split Spoon Sampling - 2 foot (during boring) > 100 feet	Per Spoon	Field notes and boring logs
5-1.b.	Sonic Core Sampling - 5 or 10 foot (during boring)	Per Core	Field notes and boring logs
5-2.	Hand Auger Boring ≤ 10 foot total depth	Per Boring	Field notes and boring logs
5-3.a.	Direct Push Technology (DPT) Rig and Equipment	Full Day	Field notes and boring logs
5-5.a.	DPT Membrane Interface Probe (MIP) Equipped with PID and ECD (add-on cost to DPT base rate)	Full Day	Field notes and boring logs
5-6.	HSA or MR Boring, ≤ 6 inch diameter, < 50 foot total depth	Per Foot	Field notes and boring logs
5-7.	HSA or MR Boring, ≤ 6 inch diameter, 50 to 100 foot total depth	Per Foot	Field notes and boring logs
5-8.	HSA or MR Boring, ≤ 6 inch diameter, > 100 foot total depth	Per Foot	Field notes and boring logs
5-9.	HSA or MR Boring, > 6 to 10 inch diameter, < 50 foot total depth	Per Foot	Field notes and boring logs
5-10.	HSA or MR Boring, > 6 to 10 inch diameter, 50 to 100 foot total depth	Per Foot	Field notes and boring logs
5-11.	HSA or MR Boring, > 6 to 10 inch diameter, > 100 foot total depth	Per Foot	Field notes and boring logs
5-12.	HSA or MR Boring, > 10 to 14 inch diameter, < 50 foot total depth	Per Foot	Field notes and boring logs
5-13.	HSA or MR Boring, > 10 to 14 inch diameter, 50 to 100 foot total depth	Per Foot	Field notes and boring logs
5-14.	HSA or MR Boring, > 10 to 14 inch diameter, > 100 foot total depth	Per Foot	Field notes and boring logs
5-15.	Sonic Boring, ≤ 6 inch diameter, < 50 foot total depth	Per Foot	Field notes and boring logs
5-16.	Sonic Boring, ≤ 6 inch diameter, 50 to 100 foot total depth	Per Foot	Field notes and boring logs
5-17.	Sonic Boring, ≤ 6 inch diameter, > 100 foot total depth	Per Foot	Field notes and boring logs
5-18.	Sonic Boring, > 6 to 10 inch diameter, < 50 foot total depth	Per Foot	Field notes and boring logs
5-19.	Sonic Boring, > 6 to 10 inch diameter, 50 to 100 foot total depth	Per Foot	Field notes and boring logs
5-20.	Sonic Boring, > 6 to 10 inch diameter, > 100 foot total depth	Per Foot	Field notes and boring logs
5-21.	Sonic Boring, > 10 to 14 inch diameter, < 50 foot total depth	Per Foot	Field notes and boring logs
5-22.	Sonic Boring, > 10 to 14 inch diameter, 50 to 100 foot total depth	Per Foot	Field notes and boring logs
5-23.	Sonic Boring, > 10 to 14 inch diameter, > 100 foot total depth	Per Foot	Field notes and boring logs
6.	WELL INSTALLATION		
6-1.	Well Installation - 1 inch diameter	Per Foot	Field notes, well construction and development logs, well permits and photo documentation
6-2.a.	Well Installation - 2 inch diameter (vertical)	Per Foot	Field notes, well construction and development logs, well permits and photo documentation
6-2.b.	Well Installation - 2 inch diameter (horizontal, by trenching, not directional drilling)	Per Foot	Field notes, well construction and development logs, well permits and photo documentation
6-3.a.	Well Installation - 4 inch diameter (vertical)	Per Foot	Field notes, well construction and development logs, well permits and photo documentation
6-3.b.	Well Installation - 4 inch diameter (horizontal, by trenching, not directional drilling)	Per Foot	Field notes, well construction and development logs, well permits and photo documentation
6-4.	Well Installation - 6 inch diameter	Per Foot	Field notes, well construction and development logs, well permits and photo documentation
6-5.	Surface Casing - 6 inch diameter	Per Foot	Field notes
6-6.	Surface Casing - 8 inch diameter	Per Foot	Field notes
6-7.	Surface Casing - 10 inch diameter	Per Foot	Field notes
6-8.	Surface Casing - 12 inch diameter	Per Foot	Field notes
6-9.a.	Additional Well Screen > 20 feet - 1 inch diameter	Per Foot	Field notes
6-9.b.	Additional Well Screen > 20 feet - 2 inch diameter	Per Foot	Field notes
6-9.c.	Additional Well Screen > 20 feet - 4 inch diameter	Per Foot	Field notes
6-9.d.	Additional Well Screen > 20 feet - 6 inch diameter	Per Foot	Field notes
6-10.	Above Grade Well Completion	Per Well	Field notes and photo documentation
6-11.	Installation of Well Vault - 2 x 2 x 2 foot	Per Vault	Field notes and photo documentation
6-12.	Installation of Well Vault - 4 x 4 x 2 foot	Per Vault	Field notes and photo documentation
6-13.	Well Redevelopment	Per Well	Field notes and photo documentation

Petroleum Contamination Site Response Action Services
REQUIRED DOCUMENTS FOR INVOICING

6-14.	Removal and Reinstallation of 8-inch Manhole and Well Pad (well pad/manhole has been damaged or	Per Well	Field notes and photo documentation
6-15.	Removal and Reinstallation of 12-inch Manhole and Well Pad (well pad/manhole has been damaged or	Per Well	Field notes and photo documentation
7.	WELL ABANDONMENT		
7-1.	Grout and Abandon Well, 1 to 2 inch diameter	Per Foot	Field notes, well completion report/permit and photo documentation
7-2.	Grout and Abandon Well, > 2 to 4 inch diameter	Per Foot	Field notes, well completion report/permit and photo documentation
7-3.	Grout and Abandon Well, > 4 to 6 inch diameter	Per Foot	Field notes, well completion report/permit and photo documentation
7-4.	Grout and Abandon Well, > 6 inch diameter	Per Foot	Field notes, well completion report/permit and photo documentation
7-5.	Removal of Well Vault - 2 x 2 x 2 foot	Per Vault	Field notes and photo documentation
7-6.	Removal of Well Vault - 4 x 4 x 2 foot	Per Vault	Field notes and photo documentation
7-7.	Removal of Well Pad and Manhole	Per Well	Field notes and photo documentation
8.	SAMPLE COLLECTION AND FIELD TESTING		
8-1.	Monitoring Well Sampling with Water Level, ≤ 100 foot depth	Per Well	Field notes, well sampling and calibration logs and sample chain of custody form
8-2.	Monitoring Well Sampling with Water Level, > 100 foot depth	Per Well	Field notes, well sampling and calibration logs and sample chain of custody form
8-3.	Domestic Water Well Sampling	Per Well	Field notes, well sampling and calibration logs and sample chain of custody form
8-4.	Other Water Sampling	Per Sample	Field notes, well sampling and calibration logs and sample chain of custody form
8-5.	Free Product Sample Collection	Per Sample	Field notes and sample chain of custody form
8-6.	Soil/Sediment Sample Collection	Per Sample	Field notes, well sampling and calibration logs and sample chain of custody form
8-7.	Water Level or Free Product Gauging	Per Well	Field notes and updated tables
8-8.	Free Product Gauging & Bailing	Per Well	Field notes and updated tables
8-9.	Vapor/Ambient Air Sample Collection - Passive Dosimeter, Sorbent Tube, Tedlar™ Bag (or Equivalent)	Per Sample	Field notes and sample chain of custody form
8-10.	Vapor/Ambient Air Sample Collection - SUMMA™ Canister (or equivalent)	Per Sample	Field notes and sample chain of custody form
8-11.	Electronic Data Deliverables (EDD)	Per Sampling Event	ADaPT zip file including the Lab EDD, Error Log, Field EDD, and Merged database file
8-12.	Survey Latitude/Longitude of Existing Monitor Wells	Per Well	Field notes and updated tables (electronic file format)
8-13.	Survey Latitude/Longitude of New Monitor Wells	Per Well	Field notes and updated tables (electronic file format)
8-14.	Encore (25 gram) for SLP Soil Sample Collection: [Per Encore]. The cost will include the 25 gram	Per Sample	Field notes and sample chain of custody form
9.	LABORATORY ANALYSIS		
9.A.	SOIL/SEDIMENT ANALYSIS		
9-1.	Soil, Used Oil/Unknown Product Group-Table D of Ch. 62-780, F.A.C., except for non-Priority Pollutant	Per Sample	Lab Report, ADaPT upload and updated tables
9-2.	Soil, BTEX + MTBE (EPA 8021 or EPA 8260)	Per Sample	Lab Report, ADaPT upload and updated tables
9-3.	Soil, Volatile Organic Halocarbons (EPA 8021 or EPA 8260)	Per Sample	Lab Report, ADaPT upload and updated tables
9-4.	Soil, BTEX + MTBE + VOHs (EPA 8021 or EPA 8260)	Per Sample	Lab Report, ADaPT upload and updated tables
9-5.	Soil, Polycyclic Aromatic Hydrocarbons (EPA 8270 or EPA 8310)	Per Sample	Lab Report, ADaPT upload and updated tables
9-6.	Soil, Priority Pollutant Volatile Organics (EPA 8260)	Per Sample	Lab Report, ADaPT upload and updated tables
9-7.	Soil, Priority Pollutant Extractable Organics-Base Neutral and Acid Extractables (EPA 8270 list [e.g.,	Per Sample	Lab Report, ADaPT upload and updated tables
9-8.	Soil, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	Lab Report, ADaPT upload and updated tables
9-8.a.	Soil, TRPH Fractionation (MADEP-EPH/VP Method or TPHCWG Direct Method)	Per Sample	Lab Report, ADaPT upload and updated tables
9-9.	Soil, PCBs [or Aroclors] (EPA 8082)	Per Sample	Lab Report, ADaPT upload and updated tables
9-10.	Soil, 8 RCRA Metals (EPA 6010 or EPA 6020 [Arsenic, Barium, Cadmium, Chromium, Lead, Selenium,	Per Sample	Lab Report, ADaPT upload and updated tables
9-11.	Soil, Arsenic (EPA 6010 or EPA 6020)	Per Sample	Lab Report, ADaPT upload and updated tables
9-12.	Soil, Cadmium (EPA 6010 or EPA 6020)	Per Sample	Lab Report, ADaPT upload and updated tables
9-13.	Soil, Chromium (EPA 6010 or EPA 6020)	Per Sample	Lab Report, ADaPT upload and updated tables
9-14.	Soil, Lead (EPA 6010 or EPA 6020)	Per Sample	Lab Report, ADaPT upload and updated tables
9-15.	Soil, Toxicity Characteristic Leaching Procedure-Extraction Only (EPA 1311)	Per Sample	Lab Report, ADaPT upload and updated tables
9-16.	Soil, Synthetic Precipitation Leaching Procedure-Extraction Only (EPA1312)	Per Sample	Lab Report, ADaPT upload and updated tables
9-17.	Soil, Organic Carbon, Total (EPA 9060 or Walkley-Black)	Per Sample	Lab Report, ADaPT upload and updated tables
9-18.	Soil, Dry Bulk Density (ASTM D1556-07, ASTM D2167-08, ASTM D2922-01, -04, -04e, -96e1 or ASTM	Per Sample	Lab Report, ADaPT upload and updated tables
9-19.	Soil, Moisture Content (ASTM D2216-10)	Per Sample	Lab Report, ADaPT upload and updated tables
9-20.	Soil, Texture, (See Gee 7 Bauder [1968])	Per Sample	Lab Report, ADaPT upload and updated tables
9-21.	Soil, GC/MS Full Scan, Alkanes, Isoalkanes, Cycloalkanes, Aromatics, Bicyclics, Sterane, and Terpane	Per Sample	Lab Report, ADaPT upload and updated tables
9-22.	Soil, Gasoline Hydrocarbon Composition, Gasoline PIANO (paraffins, isoparaffins, aromatics,	Per Sample	Lab Report, ADaPT upload and updated tables
9-23.	Soil, 5 Fuel Oxygenates, MTBE, DIPE, TAMC, ETBE and TBA (EPA 8260Mod, High Resolution GC/MS)	Per Sample	Lab Report, ADaPT upload and updated tables
9-24.	Soil, C10-C40 Alkane Fingerprint, N-Alkanes and Isoalkanes (ASTM D3328 GC/MS)	Per Sample	Lab Report, ADaPT upload and updated tables
9.B.	WATER ANALYSIS		
9-25.	Water, Gasoline/Kerosene Analytical Group-Table C of Ch. 62-780, F.A.C. (multiple methods)	Per Sample	Lab Report, ADaPT upload and updated tables
9-26.	Water, Used Oil/Unknown Product Group-Table D of Ch. 62-780, F.A.C., except for non-Priority	Per Sample	Lab Report, ADaPT upload and updated tables
9-27.	Water, BTEX + MTBE (EPA 602, EPA 624, EPA 8021 or EPA 8260)	Per Sample	Lab Report, ADaPT upload and updated tables
9-28.	Water, Volatile Organic Halocarbons, except EDB (EPA 8021 or EPA 8260)	Per Sample	Lab Report, ADaPT upload and updated tables
9-29.	Water, BTEX + MTBE + VOHs (EPA 601/602, EPA 624, EPA 6021 or EPA 8260)	Per Sample	Lab Report, ADaPT upload and updated tables
9-30.	Water, Polycyclic Aromatic Hydrocarbons, including 1-methylnaphthalene + 2-methylnaphthalene (EPA	Per Sample	Lab Report, ADaPT upload and updated tables
9-31.	Water, EDB [1,2-dibromoethane or ethylene dibromide] (EPA 504, 1 or EPA 8011)	Per Sample	Lab Report, ADaPT upload and updated tables
9-31.a.	Water, EDB [1,2-dibromoethane or ethylene dibromide] (EPA 8260 SIM)	Per Sample	Lab Report, ADaPT upload and updated tables
9-32.	Water, Priority Pollutant Volatile Organics [for NPDES purposes only] (EPA 624)	Per Sample	Lab Report, ADaPT upload and updated tables
9-33.	Water, Priority Pollutant Volatile Organics (EPA 8260)	Per Sample	Lab Report, ADaPT upload and updated tables
9-34.	Water, Priority Pollutant Extractable Organics-Base Neutral and Acid Extractables [for NPDES purposes	Per Sample	Lab Report, ADaPT upload and updated tables
9-35.	Water, Priority Pollutant Extractable Organics-Base Neutral and Acid Extractables (EPA 8270 list [e.g.,	Per Sample	Lab Report, ADaPT upload and updated tables
9-36.	Water, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	Lab Report, ADaPT upload and updated tables
9-37.	Water, PCBs [or Aroclors] (EPA 8082)	Per Sample	Lab Report, ADaPT upload and updated tables
9-38.	Water, Arsenic, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	Lab Report, ADaPT upload and updated tables
9-39.	Water, Cadmium, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	Lab Report, ADaPT upload and updated tables
9-40.	Water, Chromium, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	Lab Report, ADaPT upload and updated tables
9-41.	Water, Lead, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	Lab Report, ADaPT upload and updated tables
9-41.a.	Water, Dissolved Lead (includes filter appropriate to sample method - EPA 200.7, 200.9, 6010B, or	Per Sample	Lab Report, ADaPT upload and updated tables
9-42.	Water, Mercury, Total (EPA 245.1, EPA 6020 or EPA 7470)	Per Sample	Lab Report, ADaPT upload and updated tables
9-43.	Water, Calcium, Total (EPA 200.7, EPA 6010 or EPA 6020)	Per Sample	Lab Report, ADaPT upload and updated tables
9-44.	Water, Iron, Total (EPA 200.7, EPA 6010 or EPA 6020)	Per Sample	Lab Report, ADaPT upload and updated tables
9-44.a.	Water, Dissolved Iron (includes filter appropriate to sample method - EPA 200.7, 200.9, 6010B, or 7380)	Per Sample	Lab Report, ADaPT upload and updated tables
9-45.	Water, Magnesium, Total (EPA 200.7, EPA 6010 or EPA 6020)	Per Sample	Lab Report, ADaPT upload and updated tables
9-46.	Water, Manganese, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	Lab Report, ADaPT upload and updated tables
9-47.	Water, Potassium, Total (EPA 200.7, EPA 6010 or EPA 6020)	Per Sample	Lab Report, ADaPT upload and updated tables
9-48.	Water, Sodium, Total (EPA 200.7, EPA 6010 or EPA 6020)	Per Sample	Lab Report, ADaPT upload and updated tables
9-49.	Water, Alkalinity [as CaCO3] (EPA 310.2 or SM 2320 B)	Per Sample	Lab Report, ADaPT upload and updated tables
9-50.	Water, Ammonia [as N] (EPA 350.1, SM 4500-NH3 C, SM 4500-NH3 D, SM 4500-NH3 G or SM 4500-	Per Sample	Lab Report, ADaPT upload and updated tables
9-51.	Water, Chloride (EPA 300.0, EPA 9056, EPA 9251, EPA 9053, SM 4500C1 B, SM 4500C1 C or SM	Per Sample	Lab Report, ADaPT upload and updated tables
9-52.	Water, Hardness, Total [as CaCO3] (SM 2340 B or SM 2340 C)	Per Sample	Lab Report, ADaPT upload and updated tables
9-53.	Water, Nitrate [as N] (EPA 300.0 or EPA 353.2)	Per Sample	Lab Report, ADaPT upload and updated tables
9-54.	Water, Nitrate-Nitrite [as N] (EPA 300.0, EPA 353.2, SM 4500-NO3 E or SM 4500-NO3 F)	Per Sample	Lab Report, ADaPT upload and updated tables
9-55.	Water, Nitrite [as N] (EPA 300.0, EPA 300.1, SM 4500-NO2 B or SM 4500-NO3 F)	Per Sample	Lab Report, ADaPT upload and updated tables
9-56.	Water, Organic Carbon, Total (SM 5310 B, SM 5310 C or EPA 9060)	Per Sample	Lab Report, ADaPT upload and updated tables
9-57.	Water, Orthophosphate [as P] (EPA 300.0, EPA 300.1, EPA 365.1, EPA 365.3, EPA 9056, SM 4500-PE	Per Sample	Lab Report, ADaPT upload and updated tables
9-58.	Water, Residue-filterable [Total Dissolved Solids] (SM 2540 C)	Per Sample	Lab Report, ADaPT upload and updated tables

Petroleum Contamination Site Response Action Services
REQUIRED DOCUMENTS FOR INVOICING

9-59	Water, Residue-nonfilterable [Total Suspended Solids] (SM 2540 D)	Per Sample	Lab Report, ADaPT upload and updated tables
9-60	Water, Sulfate (ASTM D516-02, ASTM D516-90, EPA 300.0, EPA 300.1, EPA 375.2, EPA 9038, EPA 9-61)	Per Sample	Lab Report, ADaPT upload and updated tables
9-61	Water, Heterotrophic Plate Count (SM 9215 B)	Per Sample	Lab Report, ADaPT upload and updated tables
9-62	Water, Acute Bioassay-96 Hour, Freshwater, Vertebrate/Invertebrate [Vertebrate: Pimephales promelas]	Per Sample	Lab Report, ADaPT upload and updated tables
9-63	Water, Acute Bioassay-96 Hour, Estuarine + Marine, Vertebrate/Invertebrate [Vertebrate: Menidia]	Per Sample	Lab Report, ADaPT upload and updated tables
9-64	Water, GC/MS Full Scan, Alkanes, Isoalkanes, Cycloalkanes, Aromatics, Bicyclic, Sterane, and	Per Sample	Lab Report, ADaPT upload and updated tables
9-65	Water, Gasoline Hydrocarbon Composition, Gasoline PIANO [paraffins, isoparaffins, aromatics,	Per Sample	Lab Report, ADaPT upload and updated tables
9-66	Water, 5 Fuel Oxygenates, MTBE, DIPE, TAME, ETBE and TBA (EPA 8260Mod, High Resolution	Per Sample	Lab Report, ADaPT upload and updated tables
9-67	Water, C10-C40 Alkane Fingerprint, N-Alkanes and Isoalkanes (ASTM D3328 GC/MS)	Per Sample	Lab Report, ADaPT upload and updated tables
9-78	Water, BTEX/MTBE + Naphthalene (EPA 8260)	Per Sample	Lab Report, ADaPT upload and updated tables
9-79	Water, EDC [1,2-dichloroethane] (EPA Method 8021 or 8260)	Per Sample	Lab Report, ADaPT upload and updated tables
9-80	Water, Methane (EPA SOP RSK-175)	Per Sample	Lab Report, ADaPT upload and updated tables
9.C. AIR ANALYSIS			
9-68	Air, Total Petroleum Hydrocarbons (EPA Method 18 or TO-3)	Per Sample	Lab Report and updated tables
9-69	Air, Volatile Organic Aromatics (EPA Method TO-15)	Per Sample	Lab Report and updated tables
9-70	Air, Polycyclic Aromatic Hydrocarbons (EPA Method TO-13)	Per Sample	Lab Report and updated tables
9-71	Air, Volatile Organic Compounds (EPA Method TO-17)	Per Sample	Lab Report and updated tables
9.D. PRODUCT ANALYSIS			
9-72	Product, C3-C44 Hydrocarbon Fingerprint, Gasoline PIANO [paraffins, isoparaffins, aromatics,	Per Sample	Lab Report, ADaPT upload and updated tables
9-73	Product, GC/MS Full Scan, alkanes, isoalkanes, cycloalkanes, aromatics, bicyclic, sterane, and	Per Sample	Lab Report, ADaPT upload and updated tables
9.E. OTHER ANALYSIS			
9-75	Additional Laboratory % Surcharge authorized in the ATC contract for 7 Day Turnaround. The price	Surcharge	Lab Report, ADaPT upload and updated tables
9-76	Additional Laboratory % Surcharge authorized in the ATC contract for 3 Day Turnaround. The price	Surcharge	Lab Report, ADaPT upload and updated tables
9-77	Additional Laboratory % Surcharge authorized in the ATC contract for 1 Day Turnaround. The price should be a total of all standard costs for analysis receiving 1 Day Turnaround in each Task. Enter this price in the Quant. column for the associated task. The rate is the % surcharge authorized in the ATC	Percent Surcharge	Lab Report, ADaPT upload and updated tables
10. SOIL SOURCE REMOVAL RELATED			
10-1.a	Sheet Piling Installation for ≤ 20 feet deep Excavation	Per Sq. Foot	Field notes and photo documentation
10-1.b	Sheet Piling Rental for ≤ 20 feet deep Excavation	Per Sq. Foot/Day	Field notes and photo documentation
10-1.c	Sheet Piling Rental for ≤ 20 feet deep Excavation	Per Sq. Foot/Week	Field notes and photo documentation
10-1.d	Sheet Piling Rental for ≤ 20 feet deep Excavation	Per Sq. Foot/Month	Field notes and photo documentation
10-2.a	Sheet Piling Installation for > 20 feet deep Excavation	Per Sq. Foot	Field notes and photo documentation
10-2.b	Sheet Piling Rental for > 20 feet deep Excavation	Per Sq. Foot/Day	Field notes and photo documentation
10-2.c	Sheet Piling Rental for > 20 feet deep Excavation	Per Sq. Foot/Week	Field notes and photo documentation
10-2.d	Sheet Piling Rental for > 20 feet deep Excavation	Per Sq. Foot/Month	Field notes and photo documentation
10-7	Conventional Soil Excavation and Loading ≤ 300 cubic yards	Per Cubic Yard	Field notes and photo documentation
10-8	Conventional Soil Excavation and Loading > 300 cubic yards	Per Cubic Yard	Field notes and photo documentation
10-9	LDA Excavation and Loading Without Casing ≤ 300 cubic yards	Per Cubic Yard	Field notes and photo documentation
10-10	LDA Excavation and Loading Without Casing > 300 cubic yards	Per Cubic Yard	Field notes and photo documentation
10-11.a	LDA Excavation and Loading With Surface Casing ≤ 300 cubic yards	Per Cubic Yard	Field notes and photo documentation
10-11.b	LDA Excavation and Loading With Driven Casing ≤ 300 cubic yards	Per Cubic Yard	Field notes and photo documentation
10-12.a	LDA Excavation and Loading With Surface Casing > 300 cubic yards	Per Cubic Yard	Field notes and photo documentation
10-12.b	LDA Excavation and Loading With Driven Casing > 300 cubic yards	Per Cubic Yard	Field notes and photo documentation
10-13	Flowable Fill Concrete and Installation	Per Cubic Yard	Field notes and volume documentation/supplier load documentation
10-14	Clean Backfill Material, Compaction and Testing (includes transport) ≤ 300 cubic yards	Per Cubic Yard	Field notes, backfill lab report, compaction test results, transport load tickets/supplier load documentation
10-15	Clean Backfill Material, Compaction and Testing (includes transport) > 300 cubic yards	Per Cubic Yard	Field notes, backfill lab report, compaction test results, transport load tickets/supplier load documentation
10-15.a	Clean Overburden Used As Backfill, Compaction and Testing ≤ 300 cubic yards	Per Cubic Yard	Field notes, backfill lab report, compaction test results, transport load tickets/supplier load documentation
10-15.b	Clean Overburden Used As Backfill, Compaction and Testing > 300 cubic yards	Per Cubic Yard	Field notes, backfill lab report, compaction test results, transport load tickets/supplier load documentation
10-16	Pea Gravel	Per Ton	Field notes, transport load tickets/other supplier load documentation
10-17	#57 Stone	Per Ton	Field notes, transport load tickets/other supplier load documentation
10-18	Dewatering System, up to 12 well points (includes installation)	Per Day	Field notes
10-19	Additional Dewatering System Well Points (2) (includes installation)	Per Day	Field notes
10-20	Dewatering System, up to 12 well points (includes installation)	Per Week	Field notes
10-21	Additional Dewatering System Well Points (2) (includes installation)	Per Week	Field notes
10-22	Dewatering System, up to 12 well points (includes installation)	Per Month	Field notes
10-23	Additional Dewatering System Well Points (2) (includes installation)	Per Month	Field notes
11. PETROLEUM STORAGE TANK REMOVAL AND DISPOSAL			
11-1	Remove and Dispose Petroleum Storage Tank - ≤ 1,000 gal. capacity	Per Tank	Field notes, photos, storage system closure form, disposal manifest or documentation and recycling credits if applicable
11-2	Remove and Dispose Petroleum Storage Tank - > 1,000 to 5,000 gal. capacity	Per Tank	Field notes, photos, storage system closure form, disposal manifest or documentation and recycling credits if applicable
11-3	Remove and Dispose Petroleum Storage Tank - > 5,000 to 10,000 gal. capacity	Per Tank	Field notes, photos, storage system closure form, disposal manifest or documentation and recycling credits if applicable
11-4	Remove and Dispose Petroleum Storage Tank - > 10,000 gal. capacity	Per Tank	Field notes, photos, storage system closure form, disposal manifest or documentation and recycling credits if applicable
12. DEBRIS, WASTE AND PRODUCT REMOVAL AND DISPOSAL			
12-1	Removal and Loading of Asphalt and/or Concrete - up to 4 inch thickness	Per Square Foot	Field notes, photo documentation, updated figure w/ areal extent or receipt
12-2	Additional Removal/Loading Cost for Concrete - > 4 inch thickness	Per Square Foot	Field notes, photo documentation, updated figure w/ areal extent or receipt
12-3	Loading, Transport and Disposal/Recycle Clean Overburden	Per Ton	Field notes, weigh tickets and disposal facility documentation, manifests, receipt, ect.
12-4	Transport and Disposal of Clean Concrete	Per Ton	Field notes, weigh tickets and disposal facility documentation, manifests, receipt, ect.
12-5	Transport and Disposal of Mixed Debris	Per Ton	Field notes, weigh tickets and disposal facility documentation, manifests, receipt, ect.
12-6	Transport and Disposal of Petroleum Impacted Soil (includes drum)	Per Drum	Field notes, photo documentation, waste manifest and disposal facility documentation or receipt
12-7	Transport Petroleum Impacted Soil (bulk) ≤ 100 miles	Per Ton	Field notes, photo documentation, waste manifest and disposal facility documentation or receipt
12-8	Transport Petroleum Impacted Soil (bulk) > 100 miles	Per Ton	Field notes, photo documentation, waste manifest and distance justification, and disposal facility documentation or receipt
12-9	Disposal of Petroleum Impacted Soil at a Landfill (bulk) ≤ 450 tons	Per Ton	Field notes, photo documentation, waste manifest and distance justification, and disposal facility documentation or receipt
12-10	Disposal of Petroleum Impacted Soil at a Landfill (bulk) > 450 tons	Per Ton	Field notes, photo documentation, waste manifest and distance justification, and disposal facility documentation or receipt
12-11	Disposal of Petroleum Impacted Soil at a Thermal Treatment Facility (bulk) ≤ 450 tons	Per Ton	Field notes, photo documentation, waste manifest and thermal treatment certification, and disposal facility documentation or receipt
12-12	Disposal of Petroleum Impacted Soil at a Thermal Treatment Facility (bulk) > 450 tons	Per Ton	Field notes, photo documentation, waste manifest and thermal treatment certification, and disposal facility documentation or receipt
12-13	Transport and Disposal of Petroleum Contact Water (includes drum)	Per Drum	Field notes, photo documentation, waste manifest and disposal facility documentation or receipt
12-14	Transport and Disposal of Petroleum Contact Water (bulk)	Per Gallon	Field notes, photo documentation, waste manifest and disposal facility documentation or receipt
12-15	Transport and Disposal of Petroleum Product (includes drum)	Per Drum	Field notes, photo documentation, waste manifest and disposal facility documentation or receipt
12-16	Transport and Disposal of Petroleum Product (bulk)	Per Gallon	Field notes, photo documentation, waste manifest and disposal facility documentation or receipt
12-17	Delivery, Pick Up and Rental of 20 Cubic Yard Roll-Off Container	Per Week	Field notes, photo documentation, waste manifest and disposal facility documentation or receipt
12-18	Additional Rental of 20 Cubic Yard Roll-Off Container	Per Week	Field notes, photo documentation, waste manifest and disposal facility documentation or receipt
13. RESURFACING			

Petroleum Contamination Site Response Action Services
REQUIRED DOCUMENTS FOR INVOICING

13-1.	Asphalt Paving - 2 inch thickness (includes sub-base)	Per Square Foot	Field notes, photo documentation and updated figure w/ areal extent
13-2.	Asphalt Paving - additional 1 inch thickness	Per Square Foot	Field notes, photo documentation and updated figure w/ areal extent
13-3.	Concrete Paving - 4 inch thickness (includes sub-base)	Per Square Foot	Field notes, photo documentation and updated figure w/ areal extent
13-4.	Concrete Paving - additional 1 inch thickness	Per Square Foot	Field notes, photo documentation and updated figure w/ areal extent
13-5.	Crushed Lime Rock Cover - 2 inch thickness	Per Square Foot	Field notes, photo documentation and updated figure w/ areal extent
13-6.	Grass - Sod	Per Square Foot	Field notes, photo documentation and updated figure w/ areal extent
13-7.	Grass - Seed and Mulch	Per Square Foot	Field notes, photo documentation and updated figure w/ areal extent
14.	IN-SITU INJECTION		
14-1.a.	Direct Push Boring with In-Situ Injection	Per Day	Field notes and photo documentation
14-2.a.	In-Situ Injection Into Existing Well/Treatment Point	Per Day	Field notes and photo documentation
14-3.	Materials to be Injected	Reimbursable*	Field notes, materials documentation and invoice
14-4.	Groundwater Injection System (not by direct push)	Per Week	Field notes and photo documentation
14-5.	Groundwater Injection System (not by direct push)	Per Month	Field notes and photo documentation
15.	REMEDIAL ACTION CONSTRUCTION		
15.A.	TRENCHING		
15-1.a.	Trenching and Installation of 1-10 Plumbing (and Electrical) Lines in Trench	Trench	Field notes (Including documentation of successful pressure testing) and photo documentation
15-1.b.	Trenching and Installation of 11 - 20 Lines	Trench	Field notes (Including documentation of successful pressure testing) and photo documentation
15-1.c.	Trenching and Installation of 21 - 30 Lines	Per Linear Foot of Trench	Field notes (Including documentation of successful pressure testing) and photo documentation
15-1.d.	Trenching and Installation of Additional 1-10 Lines Greater Than 30 Lines	Trench	Field notes (Including documentation of successful pressure testing) and photo documentation
15-2.a.	Installation of Plumbing (and Electrical) Lines Above Ground: Per Linear Foot of Piping, Electrical lines	Per Foot	Field notes (Including documentation of successful pressure testing) and photo documentation
15-3.	Plumbing and Electrical Materials/Equipment Installed in Trench (If FDEP authorizes, submit quote(s))	Reimbursable*	Field notes and vendor invoice
15-3.a.	Traffic Bearing Trench Plates (materials)	Reimbursable*	Field notes and vendor invoice
15-3.b.	Infiltration Gallery Installation	Reimbursable*	Field notes and vendor invoice
15.B.	REMEDIAL SYSTEM INTEGRATION AND STARTUP		
15-4.a.	System Installation/Integration/Startup - 1 Technology Component - 1-10 Recovery/Treatment Points	Per Startup	Field notes, system readings and photo documentation
15-4.b.	System Installation/Integration/Startup - 1 Technology Component - 11-20 Recovery/Treatment Points	Per Startup	Field notes, system readings and photo documentation
15-4.c.	System Installation/Integration/Startup - 1 Technology Component - 21-30 Recovery/Treatment Points	Per Startup	Field notes, system readings and photo documentation
15-4.d.	System Installation/Integration/Startup - 1 Technology Component - 1-10 Additional Recovery/Treatment	Per Startup	Field notes, system readings and photo documentation
15-5.	System Installation/Integration/Startup - Addition of 1 Technology Component	Component	Field notes, system readings and photo documentation
15-7.	Compound Construction/Fencing (materials)	Reimbursable*	Field notes and vendor invoice
15-8.	Utility Drop	Reimbursable*	Field notes and vendor invoice
15-9.	Utility Connection	Reimbursable*	Field notes and vendor invoice
15-10.	Utility Disconnect	Reimbursable*	Field notes and vendor invoice
16.	REMEDIAL ACTION - PACKAGED WORK SCOPES (Including Remediation System Equipment)		
16.A.	PILOT TEST PACKAGES (Including Remediation System Equipment)		
16-1.	Groundwater Recovery System Pilot Test - 8 hours	Per Test	Field notes, photo documentation and system readings
16-2.	Groundwater Recovery System Pilot Test - Additional Time	Per 2 Hrs	Field notes and system readings
16-3.	Air Sparging or Biosparging Pilot Test - 8 hours	Per Test	Field notes, photo documentation and system readings
16-4.	Air Sparging or Biosparging Pilot Test - Additional Time	Per 2 Hrs	Field notes and system readings
16-5.	Vapor Extraction Pilot Test - 8 hours	Per Test	Field notes, photo documentation and system readings
16-6.	Vapor Extraction Pilot Test - Additional Time	Per 2 Hrs	Field notes and system readings
16-7.	Vapor Extraction/Aquifer Pumping Test - 8 hours	Per Test	Field notes, photo documentation and system readings
16-8.	Vapor Extraction/Aquifer Pumping Test - Additional Time	Per 2 Hrs	Field notes and system readings
16-9.	Air Sparging/Vapor Extraction Pilot Test - 8 hours	Per Test	Field notes, photo documentation and system readings
16-10.	Air Sparging/Vapor Extraction Pilot Test - Additional Time	Per 2 Hrs	Field notes and system readings
16-11.	Multi-Phase Pilot Test - 8 hours	Per Test	Field notes, photo documentation and system readings
16-12.	Multi-Phase Pilot Test - Additional Time	Per 2 Hrs	Field notes and system readings
16-13.	Air Sparging/Multiphase Extraction Pilot Test - 8 hours	Per Test	Field notes, photo documentation and system readings
16-14.	Air Sparging/Multiphase Extraction Pilot Test - Additional Time	Per 2 Hours	Field notes and system readings
16.B.	SHORT TERM/EPISODIC SYSTEM OPERATION PACKAGES (Including Remediation System Equipment)		
16-17.	Groundwater Treatment System Package - Medium	Per Day	Field notes, photo documentation and system readings
16-18.	Groundwater Treatment System Package - Medium	Per Week	Field notes, photo documentation and system readings
16-19.	Air Sparge System Package - Medium	Per Day	Field notes, photo documentation and system readings
16-20.	Air Sparge System Package - Medium	Per Week	Field notes, photo documentation and system readings
16-21.	AS/SVE System Package - Medium	Per Day	Field notes, photo documentation and system readings
16-22.	AS/SVE System Package - Medium	Per Week	Field notes, photo documentation and system readings
16-23.	MPE System Package - Medium	Per Day	Field notes, photo documentation and system readings
16-24.	MPE System Package - Medium	Per Week	Field notes, photo documentation and system readings
16-25.	AS/MPE System Package - Medium	Per Day	Field notes, photo documentation and system readings
16-26.	AS/MPE System Package - Medium	Per Week	Field notes, photo documentation and system readings
16-27.	SVE System Package - Medium	Per Day	Field notes, photo documentation and system readings
16-28.	SVE System Package - Medium	Per Week	Field notes, photo documentation and system readings
17.	MONTHLY REMEDIATION SYSTEM O&M PACKAGED WORK SCOPES (Excluding Remediation System Equipment)		
17-1.	System O&M Package - Small	Per Month	Field notes, system readings, telemetry records and runtime calculations
17-2.	System O&M Package - Medium	Per Month	Field notes, system readings, telemetry records and runtime calculations
17-3.	System O&M Package - Large	Per Month	Field notes, system readings, telemetry records and runtime calculations
17-4.	System O&M Package - Extra Large	Per Month	Field notes, system readings, telemetry records and runtime calculations
17-5.	Supplemental System O&M Package - Add Thermax or Catox Treatment	Per Month	Field notes, system readings, telemetry records and runtime calculations
18.	REMEDIAL ACTION SYSTEM/EQUIPMENT USE (Equipment Only, Excluding O&M)		
18-1.	Medium Holding Tank - 2,000 to 6,000 gal. capacity - Short Term ≤ 6 mos.	Per Month	Field notes and photo documentation
18-2.	Medium Holding Tank - 2,000 to 6,000 gal. capacity - Long Term > 6 mos.	Per Month	Field notes and photo documentation
18-3.	Large Holding Tank > 6,000 to 10,000 gal. capacity - Short Term ≤ 6 mos.	Per Month	Field notes and photo documentation
18-4.	Large Holding Tank > 6,000 to 10,000 gal. capacity - Long Term > 6 mos.	Per Month	Field notes and photo documentation
18-5.	Groundwater Treatment System - Stand Alone Small - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-6.	Groundwater Treatment System - Stand Alone Small - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-7.	Groundwater Treatment System - Stand Alone Medium - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-8.	Groundwater Treatment System - Stand Alone Medium - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-9.	Groundwater Treatment System - Stand Alone Large - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-10.	Groundwater Treatment System - Stand Alone Large - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-11.	Air Sparge System - Small - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-12.	Air Sparge System - Small - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-13.	Air Sparge System - Medium - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-14.	Air Sparge System - Medium - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-15.	Air Sparge System - Large - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-16.	Air Sparge System - Large - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-17.	AS/SVE System - Small - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-18.	AS/SVE System - Small - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-19.	AS/SVE System - Medium - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-20.	AS/SVE System - Medium - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period

Petroleum Contamination Site Response Action Services
REQUIRED DOCUMENTS FOR INVOICING

18-21	AS/SVE System - Large - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-22	AS/SVE System - Large - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-23	MPE System - Small - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-24	MPE System - Small - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-25	MPE System - Medium - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-26	MPE System - Medium - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-27	MPE System - Large - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-28	MPE System - Large - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-29	Groundwater Treatment - Add On - Small - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-30	Groundwater Treatment - Add On - Medium - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-31	Groundwater Treatment - Add On - Large - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-32	Groundwater Treatment - Add On - Small - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-33	Groundwater Treatment - Add On - Medium - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-34	Groundwater Treatment - Add On - Large - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-35	Carbon Off Gas Treatment - Add On - Small - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-36	Carbon Off Gas Treatment - Add On - Medium - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-37	Carbon Off Gas Treatment - Add On - Large - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-38	Carbon Off Gas Treatment - Add On - Small - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-39	Carbon Off Gas Treatment - Add On - Medium - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-40	Carbon Off Gas Treatment - Add On - Large - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-41	Thermox/Catox Off Gas Treatment - Add On - Small - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-42	Thermox/Catox Off Gas Treatment - Add On - Medium - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-43	Thermox/Catox Off Gas Treatment - Add On - Large - Short Term ≤ 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-44	Thermox/Catox Off Gas Treatment - Add On - Small - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-45	Thermox/Catox Off Gas Treatment - Add On - Medium - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-46	Thermox/Catox Off Gas Treatment - Add On - Large - Long Term > 6 mos.	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-47	Soil Vapor Extraction (SVE) System - Small - Short Term ≤ 6 Months	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-48	Soil Vapor Extraction (SVE) System - Small - Long Term > 6 Months	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-49	Soil Vapor Extraction (SVE) System - Medium - Short Term ≤ 6 Months	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-50	Soil Vapor Extraction (SVE) System - Medium - Long Term > 6 Months	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-51	Soil Vapor Extraction (SVE) System - Large - Short Term ≤ 6 Months	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-52	Soil Vapor Extraction (SVE) System - Large - Long Term > 6 Months	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-53	Air Sparge/Multiphase Extraction (AS/MPE) System - Small - Short Term ≤ 6 Months	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-54	Air Sparge/Multiphase Extraction (AS/MPE) System - Small - Long Term > 6 Months	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-55	Air Sparge/Multiphase Extraction (AS/MPE) System - Medium - Short Term ≤ 6 Months	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-56	Air Sparge/Multiphase Extraction (AS/MPE) System - Medium - Long Term > 6 Months	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-57	Air Sparge/Multiphase Extraction (AS/MPE) System - Large - Short Term ≤ 6 Months	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
18-58	Air Sparge/Multiphase Extraction (AS/MPE) System - Large - Long Term > 6 Months	Per Month	Field notes, maintenance log for State owned equipment, system readings, telemetry report and % run time calculation for period
19.	REPORTS (Excluding Professional Engineering and Professional Geology Services)		
19-1.	Soil Source Removal Report	Per Report	Complete report with all required components
19-3.	General Site Assessment Report	Per Report	Complete report with all required components
19-4.	Supplemental Site Assessment Report	Per Report	Complete report with all required components
19-5.	Receptor and Exposure Pathway Report	Per Report	Complete report with all required components
19-6.	Level 2 Natural Attenuation Monitoring Plan	Per Plan	Complete plan with all required components
19-7.	Natural Attenuation or Post RA Monitoring Report, Quarterly or Non-Annual	Per Report	Complete report with all required components
19-8.	Natural Attenuation or Post RA Monitoring Report, Annual	Per Report	Complete report with all required components
19-9.	Pilot Test Plan	Per Plan	Complete plan with all required components
19-10.	Pilot Test Report	Per Report	Complete report with all required components
19-11.	Level 1 Remedial Action Plan	Per Plan	Complete plan with all required components
19-12.	Level 2 Remedial Action Plan	Per Plan	Complete plan with all required components
19-13.	Level 1 Limited Scope Remedial Action Plan or RAP Modification Plan	Per Plan	Complete plan with all required components
19-14.	Level 2 Limited Scope Remedial Action Plan or RAP Modification Plan	Per Plan	Complete plan with all required components
19-15.	Level 3 Limited Scope Remedial Action Plan or RAP Modification Plan	Per Plan	Complete plan with all required components
19-16.	Level 4 Limited Scope Remedial Action Plan or RAP Modification Plan	Per Plan	Complete plan with all required components
19-17.	Construction Drawings and Specs Report	Per Report	Complete report with all required components
19-18.	As-Built Drawings (P.E. Sealed red lined modifications)	Per Drawings	Complete report with all required components
19-19.	Remedial Action Startup Report	Per Report	Complete report with all required components
19-20.	Letter/NPDES Report	Per Report	Complete report with all required components

Petroleum Contamination Site Response Action Services
REQUIRED DOCUMENTS FOR INVOICING

19-21.	Operation & Maintenance Report, Quarterly or Non-Annual	Per Report	Complete report with all required components
19-22.	Operation & Maintenance Annual Report	Per Report	Complete report with all required components
19-23.	Remedial Action General Report	Per Report	Complete report with all required components
19-24.	Remedial Action Interim Report	Per Report	Complete report with all required components
19-25.	Free Product Recovery Report	Per Report	Complete report with all required components
19-26.	Well Abandonment/Site Restoration Report	Per Report	Complete report with all required components
19-27.	Interim Assessment Report	Per Report	Complete report with all required components
20.	PERSONNEL (Excluding Professional Engineer and Professional Geologist)		
20-1.	Program Manager (Key)	Per Hour	Field notes and work performed in accordance with Scope
20-2.	Project Manager (Key)	Per Hour	Field notes and work performed in accordance with Scope
20-3.	Engineer (Key)	Per Hour	Field notes and work performed in accordance with Scope
20-4.	Geologist/Geoscientist (Key)	Per Hour	Field notes and work performed in accordance with Scope
20-5.	Hydrogeologist/Modeler (Key)	Per Hour	Field notes and work performed in accordance with Scope
20-6.	Scientist/Technical Specialist (Key)	Per Hour	Field notes and work performed in accordance with Scope
20-7.	Assistant Scientist/Technical Specialist	Per Hour	Field notes and work performed in accordance with Scope
20-8.	Field Technician (Key)	Per Hour	Field notes and work performed in accordance with Scope
20-9.	Draftsperson	Per Hour	Work performed in accordance with Scope
20-10.	Administrative	Per Hour	Work performed in accordance with Scope
20-11.	Laborers and Security Guards	Per Hour	Field notes and work performed in accordance with Scope
21.	PROFESSIONAL ENGINEERING AND PROFESSIONAL GEOLOGY SERVICES		
21-1.	Professional Engineer (Key)	Per Hour	Field notes and work performed in accordance with Scope
21-2.	Professional Geologist (Key)	Per Hour	Field notes and work performed in accordance with Scope
21-3.	P.G. Field Oversight of Drilling and Boring and Soil-Boring Logging (Use hourly rate on site specific)	Per Hour	Field notes and work performed in accordance with Scope
21-4.	P.G. Field Oversight of Well Installation (Use hourly rate on site specific basis)	Per Hour	Field notes and work performed in accordance with Scope
21-5.	P.E. Project Oversight for Remediation Technology Pilot Testing	Per Test	Field notes and work performed in accordance with Scope
21-6.a.	P.E. Project Oversight for Remediation System Integration and Startup - Small System	Per System	Field notes and work performed in accordance with Scope
21-6.b.	P.E. Project Oversight for Remediation System Integration and Startup - Medium System	Per System	Field notes and work performed in accordance with Scope
21-6.c.	P.E. Project Oversight for Remediation System Integration and Startup - Large System	Per System	Field notes and work performed in accordance with Scope
21-6.d.	P.E. Project Oversight for Remediation System Integration and Startup - Extra Large System	Per System	Field notes and work performed in accordance with Scope
21-7.a.	P.E. Project Oversight for Short Term or Episodic Remediation System Operation - Daily Basis	Per Day	Field notes and work performed in accordance with Scope
21-7.b.	P.E. Project Oversight for Short Term or Episodic Remediation System Operation - Weekly Basis	Per Week	Field notes and work performed in accordance with Scope
21-8.	P.E. Project Oversight for Remediation System Operation and Maintenance	Per Month	Field notes and work performed in accordance with Scope
21-9.	P.E. Review and Certification of Sufficiency of Engineering Controls (other than permanent, impermeable surface or top two feet of clean fill), with Monitoring and Maintenance Recommendations Required for a Conditional NFA	Per Review and Certification	Work performed in accordance with Scope; signed and sealed recommendation
21-10.	P.E. Review and Certification of Sufficiency of Engineering Controls Limited to Permanent, Impermeable Surface or Top Two Feet of Clean Fill with Monitoring and Maintenance Recommendations Required for a Conditional NFA	Per Review and Certification	Work performed in accordance with Scope; signed and sealed recommendation
21-11.	P.E. Design and Certification of Plans and Project Oversight of Installation for Engineering Controls (other than permanent, impermeable surface or top two feet of clean fill) required for a conditional NFA	Per Engineering Controls Installation	Work performed in accordance with Scope; signed and sealed plan
21-12.	P.G. Review, Evaluation and Certification of Plans and Project Oversight for Installation of Engineering Controls Limited to Permanent, Impermeable Surface or Top Two Feet of Clean Fill Required for a Conditional NFA	Per Engineering Controls Installation	Work performed in accordance with Scope; signed and sealed plan
21-13.	P.G. or P.E. Review, Evaluation and Certification of a Soil Source Removal Report That Includes a	Per Report	Work performed in accordance with Scope; signed and sealed report
21-15.	P.G. or Qualified P.E. Review, Evaluation and Certification of a General Site Assessment Report	Per Report	Work performed in accordance with Scope; signed and sealed report
21-16.	P.G. or Qualified P.E. Review, Evaluation and Certification of a Supplemental Site Assessment Report	Per Report	Work performed in accordance with Scope; signed and sealed report
21-17.	P.G. or P.E. Review, Evaluation and Certification of a Receptor and Exposure Pathway Report	Per Report	Work performed in accordance with Scope; signed and sealed report
21-18.	P.E. Review, Evaluation and Certification of a Level 2 Natural Attenuation Monitoring Plan	Per Plan	Work performed in accordance with Scope; signed and sealed report
21-19.	P.E. Review, Evaluation and Certification of a Non-Annual Natural Attenuation or Post RA Monitoring	Per Report	Work performed in accordance with Scope; signed and sealed plan
21-20.	P.G. or P.E. Review, Evaluation and Certification of an Annual Natural Attenuation Monitoring Report	Per Report	Work performed in accordance with Scope; signed and sealed report
21-21.	P.E. Review, Evaluation and Certification of a Pilot Test Plan	Per Plan	Work performed in accordance with Scope; signed and sealed report
21-22.	P.E. Review, Evaluation and Certification of a Pilot Test Report	Per Report	Work performed in accordance with Scope; signed and sealed plan
21-23.	P.E. Review, Evaluation and Certification of a Level 1 Remedial Action Plan	Per Plan	Work performed in accordance with Scope; signed and sealed report
21-24.	P.E. Review, Evaluation and Certification of a Level 2 Remedial Action Plan	Per Plan	Work performed in accordance with Scope; signed and sealed plan
21-25.	P.E. Review, Evaluation and Certification of a Level 1 Limited Scope Remedial Action Plan or RAP	Per Plan	Work performed in accordance with Scope; signed and sealed plan
21-26.	P.E. Review, Evaluation and Certification of a Level 2 Limited Scope Remedial Action Plan or RAP	Per Plan	Work performed in accordance with Scope; signed and sealed plan
21-27.	P.E. Review, Evaluation and Certification of a Level 3 Limited Scope Remedial Action Plan or RAP	Per Plan	Work performed in accordance with Scope; signed and sealed plan
21-28.	P.E. Review, Evaluation and Certification of a Level 4 Limited Scope Remedial Action Plan or RAP	Per Plan	Work performed in accordance with Scope; signed and sealed plan
21-29.	P.E. Review, Evaluation and Certification of As-Built Drawings (P.E. sealed red lined modifications)	Per Set of Drawings	Work performed in accordance with Scope; signed and sealed plan
21-30.	P.E. Review, Evaluation and Certification of a Remedial Action Startup Report That Includes a	Per Report	Work performed in accordance with Scope; signed and sealed drawings
21-31.	P.E. Review, Evaluation and Certification of a Non-Annual Operation and Maintenance Report That	Per Report	Work performed in accordance with Scope; signed and sealed report
21-32.	P.E. Review, Evaluation and Certification of an Annual Operation and Maintenance Report	Per Report	Work performed in accordance with Scope; signed and sealed report
21-33.	P.G. or P.E. Review, Evaluation and Certification of a Remedial Action General Report	Per Report	Work performed in accordance with Scope; signed and sealed report
21-34.	P.G. or P.E. Review, Evaluation and Certification of an Interim Remedial Action Report That Includes a	Per Report	Work performed in accordance with Scope; signed and sealed report
21-35.	P.E. Review, Evaluation, and Certification of Construction Drawings	Per Set of Drawings	Work performed in accordance with Scope; signed and sealed report
21-36.	P.E. Review, Evaluation, and Certification of Annual PARM Report	Per Report	Work performed in accordance with Scope; signed and sealed report
23.	Contingent Funding		
23-1.	Contingent Funding - Allowance only to be used as offset for field change orders	NOT BILLABLE	N/A - Cannot be invoiced

Petroleum Contamination Site Response Action Services
RELEASE OF CLAIMS

MFMP PURCHASE ORDER AFFIDAVIT/RELEASE OF CLAIMS FORM

This affidavit must be completed and signed by the Vendor when requesting final payment on a MFMP Purchase Order. The signature of the Vendor shall be notarized as set forth below. Final payment on a MFMP Purchase Order will not be released until this form is accepted by the Florida Department of Environmental Protection (DEP).

1. I, _____ am the _____
(name of person appearing) (title of person appearing)
of **ADVANCED ENVIRONMENTAL TECHNOLOGIES, LLC.** (the "Vendor") hereby certify:
(name of Vendor)

A. That the Vendor entered into an agreement with the DEP to perform certain work under

MFMP Purchase Order number _____ on the following real property:

Site Name: **BP-BONITA-OLEUM CORP** DEP Facility ID #: **368520618**
(site or business name)

Site Address: _____
(street, city, county)

Site Owner: _____
(name of property owner)

B. That the Vendor has completed the work in accordance with the MFMP Purchase Order.

C. That all subcontractors and suppliers have been paid in full.

D. That receipt by the Vendor of payment for the final invoice, under the aforementioned agreement and the task assignment issued thereunder, shall constitute a full release and discharge by the Vendor to the owner of any and all claims of the Vendor against the owner, arising out of, connected with, or resulting from, performance of the obligations of the Vendor and any subcontractors and suppliers pursuant to the agreement. The Vendor shall certify such release of claim to the owner, in writing, upon request by the owner.

E. That upon receipt by the Vendor from the Department of payment for the final invoice, under the aforementioned agreement and the task assignment issued thereunder, the Vendor releases the Department from any and all claims of the Vendor and any subcontractors and suppliers that may arise under, or by virtue of, the agreement and the task assignment issued thereunder, except those claims that may be specifically exempted and set forth under the terms of the agreement. Exemptions claimed must be attached to this affidavit and reference the MFMP Purchase Order number. Any exemptions not attached are hereby waived.

F. That person appearing is authorized to make the statements set forth in this affidavit.

(signature of authorized Vendor representative)

2. ----- **Notarization of Signature of Vendor (required)** -----

State of _____ County of _____

The foregoing instrument was acknowledged before me by means of physical presence or online notarization, this _____ day of _____, 20____, by _____.

Personally known ()

Produced Identification () Type of ID: _____

(Notary's Signature)

My Commission Expires _____

Notary Public, State of _____

Commission Number (if applicable) _____



NOTE: THIS INVOICE REQUIRES ATTACHMENT OF DEP SITE MANAGER APPROVED SCHEDULE OF PAY ITEMS INVOICE RATE SHEET AND MUST BE SUBMITTED ON COMPANY LETTERHEAD.

Purchase Order # C246EF	FAC ID # 368520618	PRP Reference # 833-048A	Invoice # 53649	Invoice Date 8/22/2023	Contractor ID 00462	Final Invoice Yes <input type="radio"/> No <input checked="" type="radio"/>
BP-BONITA-OLEUM CORP Facility Name			8/8/2023 Service Start Date	to 8/16/2023 Service End Date	PoS Extended 5% Retainage Percent	
9021 Bonita Beach Rd., Bonita Springs, Lee County Facility Address						

Vendor Remit Payment To: <u>Advanced Environmental Technologies, LLC</u> <u>1741 Philema Road South</u> <u>RE: 29035.00</u> <u>Albany, GA, 31701</u> Agent : <u>Jonathan Williams</u> Email Address : <u>jwilliams@aetllc.com</u> Telephone : <u>904-514-3608</u>	Bill To : Florida Dept. of Environmental Protection Petroleum Restoration Program 2600 Blair Stone Road, M.S. 4575 Tallahassee, Florida 32399-2400 Submit invoices via email to: PRP_AcctingInvoices@dep.state.fl.us	8/22/23 FDEP Received Date
---	---	--

	Amount	Retainage
Purchase Order Amount	\$74,605.68	
Previously Invoiced	\$0.00	\$0.00
Available Purchase Order Balance	\$74,605.68	
<hr/>		
Amount Approved This Invoice	\$262.11	\$13.11
Forfeited Retainage		<input type="text"/>
Total Retainage Held		\$13.11
Retainage (Final Invoice)	\$0.00	
Total Amount Payable This Invoice	\$249.00	
<hr/>		
Purchase Order Balance Remaining	\$74,356.68	

NOTE: THIS INVOICE REQUIRES ATTACHMENT OF DEP SITE MANAGER APPROVED SCHEDULE OF PAY ITEMS INVOICE RATE SHEET AND MUST BE SUBMITTED ON COMPANY LETTERHEAD.

Aug. 21, 2023

ELECTRONIC MAIL – DELIVERY RECEIPT REQUESTED

Jonathan Williams
Advanced Environmental Technologies, LLC
4864 Corlett St.; Tallahassee, FL 32303
jwilliams@aetllc.com

Subject: **Deliverable Review – Partial Task 1 Site-Specific Health & Safety Plan**
BP-Bonita-Oleum Corp
9021 Bonita Beach Road; Bonita Springs, Lee County
FDEP Facility ID #36/8520618
Discharge Date: Nov. 17, 1994 (PLRIP)

Dear Mr. Williams:

Sarasota County Air & Water Quality, on behalf of the Florida Department of Environmental Protection (FDEP), has reviewed the Partial Task 1 Site-Specific Health & Safety Plan (Health and Safety Plan) dated and received Aug. 16, 2023, submitted for the subject facility in accordance with Purchase Order #C246EF. The work is acceptable and demonstrates that the pay item being invoiced for under Task 1 on the attached SPI was satisfactorily completed. If needed, the remaining pay items in Task 1 may be used in future site activities.

Please continue the implementation of the purchase order. Pursuant to Petroleum Restoration Program procedures, the invoice for this deliverable must be received by Sept. 20, 2023. The approved costs for completion of this deliverable are **\$262.11**, including retainage, as detailed in the attached rate sheet. Please continue implementation of the Purchase Order by completing the remainder of Task 1.

I, James Yurkovich, certify that I am the contract manager, and the provided information is true and correct; the goods and services have been satisfactorily received and payment is now due. I understand that the office of the State Chief Financial Officer reserves the right to require additional documentation and/or to conduct periodic post-audits of any agreements.

If you should have any questions about the review, please contact me at **(941) 861-0911** or at jjurkovich@scgov.net. Remember to copy AWQ@scgov.net when submitting electronic copies of reports or deliverables.

Sincerely,

James M. Yurkovich
Environmental Specialist III
Air & Water Quality

Attachment: Signed Invoice Rate Sheet

cc: Bradley Newman, Fifth Third Bank – Bradley.Newman@53.com
OCULUS – Cleanup/Approval Related/PO C246EF Partial TK1 HASP Approval

**Petroleum Contamination Site Response Action Services
SCHEDULE OF PAY ITEMS INVOICE RATE SHEET**

Facility Name: BP-BONITA-OLEUM CORP
 7-Digit Facility ID #: 8520618
 County: 36
 Region: South
 Site Manager Name: JAMES YURKOVICH
 Site Manager Phone: (941)861-0911
 Site Manager Email: jyurkovich@scgov.net

Contractor: ADVANCED ENVIRONMENTAL TECHNOLOGIES, LLC.
 CID #: 00462 Retainage %: 5% Purchase Order: C246EF
 Contract #: GC833 FDEP Cost Share %: 100.00% Download Date: 6/30/23 16:36
 SPI ID #: 29372 Total Extended Cost: \$ 74,605.68 Assignment Type: CSF
 Without Handling Fee: \$ 74,575.68
 Transition Agreement: Yes No

PAY ITEM	DESCRIPTION	UNIT OF MEASURE	PO Rate Sheet			Previously Invoiced	This Invoice		Balance
			UNITS	NEGOTIATED ITEM PRICE	TOTAL EXTENDED PRICE	UNITS	UNITS	EXTENDED PRICE	UNITS
Task 1									
1-1.	File Review	Per Review	1	\$ 652.05	\$ 652.05	0	0	\$ -	1
1-2.	Site Health & Safety Plan	Per Site	1	\$ 262.11	\$ 262.11	0	1	\$ 262.11	0
1-5.	Off-Site Property Access Agreement	Per Agreement	1	\$ 458.40	\$ 458.40	0	0	\$ -	1
2-1.	Site Reconnaissance/Field Measurement Visit	Per Visit	1	\$ 720.36	\$ 720.36	0	0	\$ -	1
3-2.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - > 100 miles each way	Per Round Trip	2	\$ 677.65	\$ 1,355.30	0	0	\$ -	2
4-1.a.	Per Diem - For travel > 1 consecutive day (prorated in quarter day increments in accordance with 112.061, F.S.) - Travel Voucher required and quoted rate should be per person per day	Per Person, Per Day	1	\$ 80.00	\$ 80.00	0	0	\$ -	1
8-7.	Water Level or Free Product Gauging	Per Well	3	\$ 31.03	\$ 93.09	0	0	\$ -	3
20-6.	Scientist/Technical Specialist (Key)	Per Hour	2	\$ 108.68	\$ 217.36	0	0	\$ -	2
		RETAINAGE			\$ 191.93	\$ -		\$ 13.11	\$ 178.83
		SUBTOTAL			\$ 3,838.67	\$ -		\$ 262.11	\$ 3,576.56
Task 2									
1-4.	Permit Fees (actual fee only, cost to obtain permit is included in applicable pay items)	Reimbursable*	350	\$ 1.00	\$ 350.00	0	0	\$ -	350
1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	350	\$ 0.06	\$ 21.00	0	0	\$ -	350
3-2.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - > 100 miles each way	Per Round Trip	2	\$ 677.65	\$ 1,355.30	0	0	\$ -	2
3-9.a.	Drill Rig and Support Vehicles Mobilization (hollow stem auger, mud rotary or sonic) - ≤ 100 miles each way	Per Round Trip	1	\$ 1,304.10	\$ 1,304.10	0	0	\$ -	1
3-17.	Mini Excavator/Loader (Bobcat™) Mobilization - ≤ 100 miles each way	Per Round Trip	1	\$ 470.86	\$ 470.86	0	0	\$ -	1
4-1.a.	Per Diem - For travel > 1 consecutive day (prorated in quarter day increments in accordance with 112.061, F.S.) - Travel Voucher required and quoted rate should be per person per day	Per Person, Per Day	8	\$ 80.00	\$ 640.00	0	0	\$ -	8
5-2.	Hand Auger Boring ≤ 10 foot total depth	Per Boring	13	\$ 182.80	\$ 2,376.40	0	0	\$ -	13
5-6.	HSA or MR Boring, ≤ 6 inch diameter, < 50 foot total depth	Per Foot	25	\$ 28.71	\$ 717.75	0	0	\$ -	25
5-9.	HSA or MR Boring, > 6 to 10 inch diameter, < 50 foot total depth	Per Foot	72	\$ 39.35	\$ 2,833.20	0	0	\$ -	72
5-12.	HSA or MR Boring, > 10 to 14 inch diameter, < 50 foot total depth	Per Foot	18	\$ 51.53	\$ 927.54	0	0	\$ -	18
6-2.a.	Well Installation - 2 inch diameter (vertical)	Per Foot	97	\$ 43.59	\$ 4,228.23	0	0	\$ -	97
6-5.	Surface Casing - 6 inch diameter	Per Foot	18	\$ 56.34	\$ 1,014.12	0	0	\$ -	18
8-1.	Monitoring Well Sampling with Water Level, ≤ 100 foot depth	Per Well	20	\$ 265.70	\$ 5,314.00	0	0	\$ -	20
8-6.	Soil/Sediment Sample Collection	Per Sample	13	\$ 138.46	\$ 1,799.98	0	0	\$ -	13
8-11.	Electronic Data Deliverables (EDD)	Per Sampling Event	2	\$ 136.92	\$ 273.84	0	0	\$ -	2
8-14.	Encore (25 gram) for SPLP Soil Sample Collection: [Per Encore]. The cost will include the 25 gram Encore samples submitted to the laboratory for SPLP testing and the 25 gram Encore samples collected in the field but not submitted to the laboratory for testing (discarded).	Per Sample	13	\$ 17.91	\$ 232.83	0	0	\$ -	13
9-2.	Soil, BTEX + MTBE (EPA 8021 or EPA 8260)	Per Sample	13	\$ 59.31	\$ 771.03	0	0	\$ -	13
9-5.	Soil, Polycyclic Aromatic Hydrocarbons (EPA 8270 or EPA 8310)	Per Sample	13	\$ 120.17	\$ 1,562.21	0	0	\$ -	13
9-8.	Soil, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	13	\$ 94.16	\$ 1,224.08	0	0	\$ -	13

**Petroleum Contamination Site Response Action Services
SCHEDULE OF PAY ITEMS INVOICE RATE SHEET**

PAY ITEM	DESCRIPTION	UNIT OF MEASURE	PO Rate Sheet			Previously Invoiced	This Invoice		Balance
			UNITS	NEGOTIATED ITEM PRICE	TOTAL EXTENDED PRICE	UNITS	UNITS	EXTENDED PRICE	UNITS
9-8.a.	Soil, TRPH Fractionation (MADEP-EPH/VPH Method or TPHCWG Direct Method)	Per Sample	13	\$ 340.36	\$ 4,424.68	0	0	\$ -	13
9-15.	Soil, Toxicity Characteristic Leaching Procedure-Extraction Only (EPA 1311)	Per Sample	1	\$ 50.70	\$ 50.70	0	0	\$ -	1
9-16.	Soil, Synthetic Precipitation Leaching Procedure-Extraction Only (EPA1312)	Per Sample	26	\$ 39.53	\$ 1,027.78	0	0	\$ -	26
9-27.	Water, BTEX + MTBE (EPA 602, EPA 624, EPA 8021 or EPA 8260)	Per Sample	31	\$ 59.31	\$ 1,838.61	0	0	\$ -	31
9-30.	Water, Polycyclic Aromatic Hydrocarbons, including 1-methylnaphthalene + 2-methylnaphthalene (EPA 610 [HPLC], EPA 625, EPA 8270 or EPA 8310)	Per Sample	33	\$ 114.44	\$ 3,776.52	0	0	\$ -	33
9-33.	Water, Priority Pollutant Volatile Organics (EPA 8260)	Per Sample	3	\$ 114.45	\$ 343.35	0	0	\$ -	3
9-36.	Water, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	20	\$ 89.69	\$ 1,793.80	0	0	\$ -	20
9-38.	Water, Arsenic, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	1	\$ 7.23	\$ 7.23	0	0	\$ -	1
9-39.	Water, Cadmium, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	1	\$ 7.23	\$ 7.23	0	0	\$ -	1
9-40.	Water, Chromium, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	1	\$ 7.23	\$ 7.23	0	0	\$ -	1
9-41.	Water, Lead, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	21	\$ 7.59	\$ 159.39	0	0	\$ -	21
9-77.	Additional Laboratory % Surcharge authorized in the ATC contract for 1 Day Turnaround. The price should be a total of all standard costs for analysis receiving 1 Day Turnaround in each Task. Enter this price in the Quant. column for the associated task. The rate is the % surcharge authorized in the ATC contract (% surcharge is calculated using the item price, where: \$1.00 = 100%, \$0.75 = 75%, ect.). This will be payable per sample per % surcharge utilizing the dollars as the number of units.	PercentSurcharge	88.59	\$ 1.24	\$ 109.85	0	0	\$ -	88.59
12-8.	Transport Petroleum Impacted Soil (bulk) > 100 miles	Per Ton	3	\$ 38.02	\$ 114.06	0	0	\$ -	3
12-11.	Disposal of Petroleum Impacted Soil at a Thermal Treatment Facility (bulk) ≤ 450 tons	Per Ton	3	\$ 41.27	\$ 123.81	0	0	\$ -	3
12-17.	Delivery, Pick Up and Rental of 20 Cubic Yard Roll-Off Container	Per Week	1	\$ 1,206.28	\$ 1,206.28	0	0	\$ -	1
19-27.	Interim Assessment Report	Per Report	1	\$ 791.44	\$ 791.44	0	0	\$ -	1
		RETAINAGE			\$ 2,159.92	\$ -		\$ -	\$ 2,159.92
		SUBTOTAL			\$ 43,198.43	\$ -		\$ -	\$ 43,198.43
Task 3									
1-4.	Permit Fees (actual fee only, cost to obtain permit is included in applicable pay items)	Reimbursable*	150	\$ 1.00	\$ 150.00	0	0	\$ -	150
1-7.	6% Handling Fee for Cost Reimbursable Items	% Surcharge	150	\$ 0.06	\$ 9.00	0	0	\$ -	150
3-2.	Mobilization, Light Duty Vehicle (car or 1/2 ton truck) - > 100 miles each way	Per Round Trip	2	\$ 677.65	\$ 1,355.30	0	0	\$ -	2
3-9.a.	Drill Rig and Support Vehicles Mobilization (hollow stem auger, mud rotary or sonic) - ≤ 100 miles each way	Per Round Trip	1	\$ 1,304.10	\$ 1,304.10	0	0	\$ -	1
4-1.a.	Per Diem - For travel > 1 consecutive day (prorated in quarter day increments in accordance with 112.061, F.S.) - Travel Voucher required and quoted rate should be per person per day	Per Person, Per Day	4	\$ 80.00	\$ 320.00	0	0	\$ -	4
5-2.	Hand Auger Boring ≤ 10 foot total depth	Per Boring	6	\$ 182.80	\$ 1,096.80	0	0	\$ -	6
5-9.	HSA or MR Boring, > 6 to 10 inch diameter, < 50 foot total depth	Per Foot	36	\$ 39.35	\$ 1,416.60	0	0	\$ -	36
6-2.a.	Well Installation - 2 inch diameter (vertical)	Per Foot	36	\$ 43.59	\$ 1,569.24	0	0	\$ -	36
8-1.	Monitoring Well Sampling with Water Level, ≤ 100 foot depth	Per Well	10	\$ 265.70	\$ 2,657.00	0	0	\$ -	10
8-6.	Soil/Sediment Sample Collection	Per Sample	6	\$ 138.46	\$ 830.76	0	0	\$ -	6
8-11.	Electronic Data Deliverables (EDD)	Per Sampling Event	2	\$ 136.92	\$ 273.84	0	0	\$ -	2
8-14.	Encore (25 gram) for SPLP Soil Sample Collection: [Per Encore]. The cost will include the 25 gram Encore samples submitted to the laboratory for SPLP testing and the 25 gram Encore samples collected in the field but not submitted to the laboratory for testing (discarded).	Per Sample	6	\$ 17.91	\$ 107.46	0	0	\$ -	6
9-2.	Soil, BTEX + MTBE (EPA 8021 or EPA 8260)	Per Sample	6	\$ 59.31	\$ 355.86	0	0	\$ -	6
9-5.	Soil, Polycyclic Aromatic Hydrocarbons (EPA 8270 or EPA 8310)	Per Sample	6	\$ 120.17	\$ 721.02	0	0	\$ -	6
9-8.	Soil, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	6	\$ 94.16	\$ 564.96	0	0	\$ -	6

**Petroleum Contamination Site Response Action Services
SCHEDULE OF PAY ITEMS INVOICE RATE SHEET**

PAY ITEM	DESCRIPTION	UNIT OF MEASURE	PO Rate Sheet			Previously Invoiced	This Invoice		Balance
			UNITS	NEGOTIATED ITEM PRICE	TOTAL EXTENDED PRICE	UNITS	UNITS	EXTENDED PRICE	UNITS
9-8.a.	Soil, TRPH Fractionation (MADEP-EPH/VPH Method or TPHCWG Direct Method)	Per Sample	6	\$ 340.36	\$ 2,042.16	0	0	\$ -	6
9-16.	Soil, Synthetic Precipitation Leaching Procedure-Extraction Only (EPA1312)	Per Sample	12	\$ 39.53	\$ 474.36	0	0	\$ -	12
9-27.	Water, BTEX + MTBE (EPA 602, EPA 624, EPA 8021 or EPA 8260)	Per Sample	16	\$ 59.31	\$ 948.96	0	0	\$ -	16
9-30.	Water, Polycyclic Aromatic Hydrocarbons, including 1-methylnaphthalene + 2-methylnaphthalene (EPA 610 [HPLC], EPA 625, EPA 8270 or EPA 8310)	Per Sample	16	\$ 114.44	\$ 1,831.04	0	0	\$ -	16
9-36.	Water, Total Recoverable Petroleum Hydrocarbons (FL-PRO)	Per Sample	10	\$ 89.69	\$ 896.90	0	0	\$ -	10
9-41.	Water, Lead, Total (EPA 200.7, EPA 200.8, EPA 6010 or EPA 6020)	Per Sample	10	\$ 7.59	\$ 75.90	0	0	\$ -	10
12-6.	Transport and Disposal of Petroleum Impacted Soil (includes drum)	Per Drum	4	\$ 253.55	\$ 1,014.20	0	0	\$ -	4
19-4.	Supplemental Site Assessment Report	Per Report	1	\$ 1,944.53	\$ 1,944.53	0	0	\$ -	1
20-6.	Scientist/Technical Specialist (Key)	Per Hour	2	\$ 108.68	\$ 217.36	0	0	\$ -	2
21-16.	P.G. or Qualified P.E. Review, Evaluation and Certification of a Supplemental Site Assessment Report	Per Report	1	\$ 391.23	\$ 391.23	0	0	\$ -	1
23-1.	Contingent Funding - Allowance only to be used as offset for field change orders	NOT BILLABLE	5000	\$ 1.00	\$ 5,000.00	n/a	n/a	n/a	5000
	RETAINAGE				\$ 1,378.43	\$ -		\$ -	\$ 1,378.43
	SUBTOTAL				\$ 27,568.58	\$ -		\$ -	\$ 27,568.58
	TOTAL COST				\$ 74,605.68	\$ -		\$ 262.11	\$ 74,343.57
					Owner Cost Share:	\$ -	\$ -	\$ -	\$ -
					FDEP Cost Share:	\$ 74,605.68	\$ -	\$ 262.11	\$ 74,343.57
					Retainage:	\$ 3,730.28	\$ -	\$ 13.11	\$ 3,717.18
					FDEP Less Retainage:	\$ 70,875.40	\$ -	\$ 249.00	\$ 70,626.39

Version: 13.0

Site Manager Approval: James M. Yurkovich
 Print Name
 Signature 
 Date of Review Letter 8/21/2023

REVISED SUBCONTRACTOR UTILIZATION REPORT FORM FOR COMMODITIES/SERVICES

DIRECTIONS:

Contractors working for the Florida Department of Environmental Protection (DEP) **must complete and submit this attachment with each invoice submitted for payment.** Questions regarding use of this form should be directed to the Procurement Section (MS93), Florida Department of Environmental Protection, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, Phone 850/245-2361.

DEP Contract No.: <u>GC833</u> Invoice Number <u>53649</u> Task Assignment No. (if applicable): <u>833-048A</u> Invoice Service Period: <u>08/08/2023 - 08/16/2023</u>		INDICATE THE ONE CATEGORY THAT BEST DESCRIBES EACH ORGANIZATION LISTED																		
		BUSINESS CLASSIFICATION					CERTIFIED MBE			NON-CERTIFIED MBE			NON-PROFIT ORG.							
		NON-MINORITY	SMALL BUSINESS (STATE)	SMALL BUSINESS (FEDERAL)	GOVERNMENTAL AGENCY	NON-PROFIT ORGANIZATION	P.R.I.D.E.	AFRICAN AMERICAN	HISPANIC	ASIAN/HAWAIIAN	NATIVE AMERICAN	AMERICAN WOMAN	AFRICAN AMERICAN	HISPANIC	ASIAN/HAWAIIAN	NATIVE AMERICAN	AMERICAN WOMAN	BOARD IS 51% OR MORE MINORITY	51% OR MORE MINORITY OFFICERS	51% OR MORE MINORITY COMMUNITY SERVED
LIST NAMES AND ADDRESSES OF SUBCONTRACTORS UTILIZED THIS INVOICE PERIOD	List Amount for Each Sub-contractor this Invoice Period to be Paid in Accordance with Section 376.3071(6), F.S.																			
N/A																				

TEMPLATE SITE ASSESSMENT REPORT

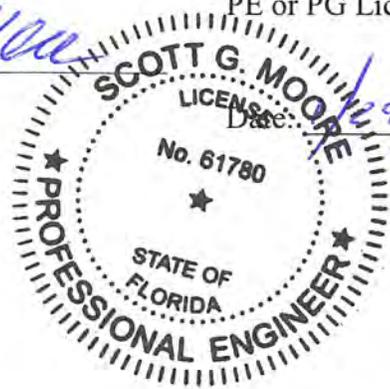
DATE: January 2, 2018
 PO#/TA#/WO#: PO# AFE071/B0D4A2
 Site FDEP Facility ID # 36/8520618 Score: 10
 Site Name: BP Bonita-Oleum Corp.
 Address: 9021 Bonita Beach Road
 City: Bonita Springs
 County: Lee
 Consultant Company: Earth Systems Inc.
 Address: 445 Lantana Road
 City, State, Zip: Lantana, Florida 33462
 Consultant Rep.: Scott Moore
 Phone #: (561) 588-3985
 Responsible Party Name: Fifth Third Bank
 Address: 4427 West Kennedy Boulevard
 City, State, Zip: Tampa, Florida 33609
 Responsible Party Rep.: Bradley Newman
 Phone #: (813) 289-7022

CERTIFICATION:

Qualified Registered Professional Engineer or Registered Professional Geologist Certification.
 I hereby certify that I have supervised the field work (as summarized in the "Recent Site Assessment Activities" section) and preparation of this report, in accordance with Florida Rules and Regulations. As a registered professional geologist and/or professional engineer, as authorized by Chapters 492 or 471, Florida Statutes, I certify that I am a qualified groundwater professional, with knowledge and experience in groundwater contamination assessment and cleanup. To the best of my knowledge, the information and laboratory data summarized in the "Recent Site Assessment Activities" section (including the applicable attachments) are true, accurate, complete, and in accordance with applicable State Rules and Regulations. *Include a hard (paper) copy of this cover page, signed and sealed, when submitting the report electronically.*

Consultant Name: Scott G. Moore, P.E.

Signature:  PE or PG License #: No. 61780



FLORIDA Stamp or Seal

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

SECTION I - Facility & Discharge Information/Initial Abatement

Cluster Site
Part Facility FDEP# Site Name:

I-A) Site Description

Please provide a brief description of the site and a summary of site history and operations. What type of business or businesses (if any), non-petroleum as well as petroleum, operated at the former/present site? If petroleum, describe where all former and current fuel tanks, lines and dispensers were/are located (indicating how this information was obtained). Describe any access constraints (utility conduits, canopies, land cover, etc.) which also might influence the placement of monitoring wells and/or the installation of soil borings. Indicate whether there are any owner issues or traffic concerns which might effect when the work can be performed? Please indicate when the requested information is best illustrated on the site map.

The site was formerly a BP gas station that was demolished in 1994 and is currently developed as a Fifth Third Bank. File review information indicates that three 10,152-gallon underground storage tanks (USTs) and one 12,000-gallon UST were installed between 1976 and 1980. The USTs, formerly located near the northeast corner of the property, were used for storing leaded gasoline, unleaded gasoline, and diesel fuel and were removed in November 1988. Subsequently, four 10,000-gallon USTs were installed in the same UST area and were used to store unleaded gasoline and diesel fuel. Those USTs were removed in November 1994 during demolition of the gas station facility. A Discharge Reporting Form (DRF) was filed on November 17, 1994 after elevated soil vapor screening readings were encountered during the removal of the USTs, product piping, and dispenser islands. Over 400 tons of petroleum contaminated soil were stockpiled on site during the UST system removal. The soil was later transported offsite for thermal treatment in December of 1994.
Currently, access constraints at the Fifth Third Bank building include dense landscaping in front of the bank building. The southern portion of the former dispenser area is now located under a portion of the building. The bank requested that the deep monitoring well installation via sonic drilling be conducted after hours on the weekend to prevent disruptions to their business operations.
A utility corridor north of the bank parking lot prevented the advancement of soil boring and installation of monitoring wells in this area. The soil borings and monitoring wells were installed onsite, south of the utility corridor and in the Bonita Beach Road right-of-way, north of the utility corridor.
The site location is included on Figure 1A. A site plan depicting underground utilities, former USTs, dispensers, adjacent structures, and current and former well locations is provided as Figure 1B.

Site map (Figures 1A, 1B) illustrating all current & former tanks, lines and dispensers (including utilities, canopies, etc.) is included in Appendix B

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
 Facility ID #: 36/8520618
 Date: January 2018

I-B) Petroleum System/Tank History

List current and former UST's and/or AST's operated at site. Systems (PAST AND PRESENT) must be illustrated on Site Plan. This information should be a summary of the Department's STCM database, all tank closure reports (if applicable) and site owner & operator information.

<u>ID#</u>	<u>AST or UST</u>	<u>Size</u> (gallons)	<u>Installation Date</u>	<u>Contents</u> (unleaded gasoline/diesel/etc.)	<u>Status</u> (active, removed or abandoned [in place])	<u>Date Removed or Abandoned</u> (if applicable)
1	UST	10,152	7/1976	Leaded Gasoline	removed	11/1988
1R1	UST	10,000	11/1988	Unleaded Gasoline	removed	11/9/1994
2	UST	12,000	7/1980	Unleaded Gasoline	removed	11/1988
2R1	UST	10,000	11/1988	Unleaded Gasoline	removed	11/9/1994
3	UST	10,152	7/1976	Unleaded Gasoline	removed	11/1988
3R1	UST	10,000	11/1988	Leaded Gasoline	removed	11/9/1994
4	UST	10,152	7/1976	Diesel	removed	11/1988
4R1	UST	10,000	11/1988	Diesel	removed	11/9/1994

-If above information is different than the Department's STCM database, please indicate source of updated information:

Active Site? If yes, please indicate method, date and extent of latest tank and line tightness test (include copy of tightness test results). If tank tightness test results are not available, please explain why they are not necessary or indicate when next tightness test will be performed.

YES NO

The site is no longer a fuel dispensing facility and currently operates as a Fifth Third Bank.

Copy of tightness test results included in Appendix --

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
 Facility ID #: 36/8520618
 Date: January 2018

I-B) Petroleum System/Tank History (continued)

YES NO

Petroleum System Closure? If yes, briefly describe type of petroleum system (AST, UST, distribution lines, etc.) and closure activities conducted. **Description not needed if copy of system tank closure report included.**

Note: Section I-C should be used to document soil, groundwater or product removal performed during closures.

The USTs that were originally installed in July 1976 were removed in November 1988. A UST Closure Report was not found for the July 1976 UST removal. Replacement USTs were installed in the same location in November 1988. The replacement USTs were removed in November 1994. A copy of the UST Closure Report is included in **Appendix C**.

Description of system closure activities included in attached tank closure report.

Copy of tank or system closure report (if applicable) included in Appendix C

I-C) Release Information

	<u>Discovery Date(s)</u>	<u>Program Type(s): ATRP, EDI, PCPP, PLRIP or Non-program</u> <i>(please indicate if a non-program discharge has been combined with an eligible discharge)</i>
1 st	<u>November 17, 1994</u>	<u>Petroleum Liability and Restoration Insurance Program (PLRIP)</u>
2 nd	<u></u>	<u></u>
3 rd	<u></u>	<u></u>
4 th	<u></u>	<u></u>
5 th	<u></u>	<u></u>
6 th	<u></u>	<u></u>

-Source description and release history that includes date(s) of release(s), cause(s) of release(s), where they occurred, type(s) of product released and volume(s) of release(s) [please explain how estimates were derived].

A Discharge Reporting Form (DRF) was filed on December 16, 1992 as a result of a DER inspection and an elevated MTBE concentration in a monitoring well sample. A DRF was filed on November 17, 1994 after elevated soil vapor screening readings were collected during the removal of the USTs, product piping, and dispenser islands. On April 27, 1995, FDEP determined that the site was eligible for state-funded cleanup assistance under the Florida PLRIP. Copies of the DRFs and the program eligibility letter is provided in **Appendix C**.

- Suspected type(s) of product released:

Leaded Gasoline
 Diesel/Kerosene
 Unleaded Gasoline
 Used Oil
 Unknown
 Other: _____

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

I-D) Initial Abatement/Source Removal

(Soil/Groundwater/Free Product removal during tank closures):

Was soil contamination detected during petroleum system closure? If yes, please briefly describe extent of petroleum impacts and method(s) used to identify soil contamination.

YES NO N/A

Elevated soil vapor screening readings were encountered during the removal of the USTs, product piping, and dispenser islands. A copy of the January 1995 Site Closure Report is included in Appendix C.

Site map (Figure 3) illustrating soil sampling locations is included in Appendix C
Tabular summary of soil sampling results (Table 1) is included in Appendix C

Was contaminated soil removed? If yes, please describe the horizontal and vertical extents of the soil removal and indicate where contaminated soil might still exist.

YES NO N/A

According to the January 1995 Site Closure Report, 403.17 tons of petroleum contaminated soil were stockpiled on site during the UST system removal. Contaminated soil was removed from the UST area and the east and west dispenser islands to a total depth of approximately six feet below land surface (bls). The soil was later transported offsite for thermal treatment in December of 1994. Contaminated soil may still be present outside of the excavated area or below five feet bls.

Approximate depth to water at time of excavation (if known) ~6 feet bls
Approximate amount removed 403.17 tons yds³ Date: 12/1994
Disposal method: Thermal Treatment

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

I-D) Initial Abatement/Source Removal (continued)

Was groundwater contamination detected during petroleum system closure? If yes, please indicate whether wells were installed (including their construction details if possible) and indicate the maximum levels for petroleum contaminants of concern that were detected.

YES NO N/A

The January 1995 Site Closure Report did not include the investigation of groundwater impacts or indicate the presence groundwater contamination at the site.

Site map (Figure --) illustrating groundwater sampling locations is included in Appendix --

Was contaminated water removed? If yes, please identify removal location(s) and describe method of removal.

YES NO N/A

Approximate volume removed: -- gallons Date(s): --
Disposal method: --

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

I-D) Initial Abatement/Source Removal (continued)

Was free product detected during petroleum system closure? If yes, please describe location(s) where product was observed and thickness observed.

YES NO N/A

According to the January 1995 Site Closure Report, the water table was encountered at a depth of approximately six feet below grade. The presence or absence of free product was not mentioned in the report. A copy of the January 1995 Site Closure Report is included in Appendix C.

Site map (Figure --) illustrating locations where free product was observed is included in Appendix --
Tabular summary of product thickness (Table --) is included in Appendix --

Was free product removed? If yes, please identify removal location(s) and describe method of removal.

YES NO N/A

Volume removed: -- gallons Date(s): --
Disposal method: --

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

SECTION II - Background Site Assessment Information

II-A) Receptor Investigation

Are large (>100,000 gallons per day) public supply potable wells located within 1/2 mile? If yes, please indicate distance(s) and direction(s) from site, if they are located downgradient and if the well(s) are screened deeper than contamination. If unknown, please explain. YES NO Unknown

Earth Systems performed a site vicinity reconnaissance and receptor survey during site visits in November 2016 and February 2017 and reviewed the most recent Florida Department of Health (FDOH) Well Survey (conducted in April 2013). Public supply wells were not identified within one half-mile of the property. A Potable Well Radius Map and a copy of the Receptor Survey and Exposure Pathway Identification Form are provided in Appendix C.

Potable well survey map (Figure --) is included in Appendix C
Potable well construction summary (Table --) is included in Appendix --

Are water wells, including irrigation, industrial and all potable wells (<100,000 gallons per day), located within 1/4 mile? If yes, please identify the type(s) of wells, their distances and directions from the site, if they are located downgradient and if the well(s) are screened deeper than the contamination. If unknown, please explain. YES NO Unknown

Earth Systems performed a site vicinity reconnaissance and receptor survey during site visits that occurred in November 2016 and February 2017 and reviewed the most recent Florida Department of Health (FDOH) Well Survey (conducted in April 2013). One commercial irrigation well (WEL2001-00039) was located approximately 250 feet downgradient at 9020 Bonita Beach Road SE. Industrial or private potable wells were not identified within one quarter-mile of the property.

Water well survey map (Figure --) is included in Appendix C
Water well construction summary (Table --) is included in Appendix --

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

II-A) Receptor Investigation (continued)

Was an area use survey performed? If yes, please identify all water wells within the survey area (as identified in the database searches and walk through survey), all surface waters, any basements or other subsurface structures and any other receptors which might be impacted. Please indicate predominant property use in area and if there are any potential off-site contamination sources located within at least a one block radius of the contaminant plume.

YES

NO

An area survey was performed during site visits that occurred in November 2016 and February 2017. The subject property is a Fifth Third Bank located in the Bonita Springs on the southeast corner of Bonita Beach Road SE and Arroyal Road (Figure 1B). The areas adjacent to the site are developed primarily as commercial properties. Residential properties are situated immediately south of the Fifth Third Bank property. An land use radius map and a copy of the Receptor Survey and Exposure Pathway Identification Form are included in Appendix C.

The Florida Department of Environmental Protection Contamination Locator Map System identified Spring Fresh Cleaners (FAC ID ERIC_4849) as pending cleanup site within a one block radius of the Fifth Third Bank property. No other potential off-site contamination sources were identified. A Site Vicinity Map is provided as Figure 2.

Area use survey map (Figure 2) is included in Appendix B

Are there any potable wells that have been impacted by contamination? If yes, please describe what was done to provide users of the contaminated potable well(s) an alternative drinking water supply. If unknown, please explain.

YES

NO

Unknown

No known potable wells affected by this facility were identified.

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

II-A) Receptor Investigation (continued)

Are there any surface water bodies which have been impacted by the contamination? If yes, please describe what (if anything) has been done to abate or prevent contamination impacting surface water. If unknown, please explain.

YES NO Unknown

There are no reports that any nearby surface water bodies have been impacted by contamination associated with the BP Bonita-Oleum site.

Are the Chapter 62-777, F.A.C., (effective April 17, 2005) default Cleanup Target Levels (CTLs) for soil and groundwater the cleanup goals for this site?

YES NO

If no, please indicate if the cleanup goals are from the 1999 version of Chapter 62-770, F.A.C., or pre-1999, apply to this site (providing the reason why) or if alternative cleanup target levels have been or might be established for this site (outlining all engineering and/or institutional controls which already exist or will need to be implemented in the future).

The Chapter 62-777, F.A.C. default CTLs for soil and groundwater are the cleanup goals for this site.

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
 Facility ID #: 36/8520618
 Date: January 2018

II-B) Previous Site Assessment

Information not described in Section I (“release information” or “initial abatement/source removal”)

Was site assessment work performed? If yes, please indicate who performed it (with reason performed) and dates performed (see table below)

YES NO

List of all reports where site assessment information was originally submitted to the FDEP (oldest to most recent):

<u>Date of report</u>	<u>Title of report</u>	<u>Company that prepared report</u>
<u>3/1995</u>	<u>Contamination Assessment Report</u>	<u>Coastal Resource Management</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Was soil assessment performed? If yes, please briefly describe work performed and discuss results. A description of the sampling results can be omitted if the data are included with current tabular summaries and soil plume maps (if applicable).

YES NO

On December 1, 1994, 62 soil borings were advanced to 6.5 feet below land surface (bls), the approximate depth of the water table. Soils were screened with an organic vapor analyzer (OVA) and elevated vapor concentrations greater than 50 parts per million (ppm) were detected on the northern half of the property and west of the former UST area. The results also indicated impacts to soils north of the property boundary.

Results included in current soil OVA screening and soil analytical summary tables.

Site map (Figure 6-1, 6-2 (CAR)) illustrating sampling locations is included in Appendix C
 Tabular summary of soil sampling results (Table 1) is included in Appendix A

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

II-B) Previous Site Assessment (continued)

Any monitoring wells installed? If yes, briefly identify where the wells were installed and describe their construction. Please indicate if the wells are still on-site. YES [X] NO []

Between January and March 1995, Coastal Resource Management (CRM) supervised the installation of five onsite and six offsite monitoring wells (MW-1 through MW-8, MW-9D, MW-10 and MW-11). The 11 previously installed monitoring wells were not found during the site reconnaissance visit conducted by Earth Systems in November 2016. Monitoring well MW-7 was later located during additional site assessment work.

Site map (Figure 1B) illustrating well locations is included in Appendix B
Tabular summary of well construction details (Table 3) is included in Appendix A

Has direct push (geoprobe) groundwater grab-sampling been performed? If yes, briefly identify the locations and depths where the samples were collected. YES [] NO [X]
A description of the sample locations and results can be omitted if the information is included in current site maps and tabular summaries

No previous direct push groundwater grab-sampling has been performed at this facility.

Site map (Figure --) illustrating the groundwater sampling results is included in Appendix --
Tabular summary of groundwater sampling results (Table --) is included in Appendix --

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

II-B) Previous Site Assessment (continued)

Was groundwater sampling performed? If yes, briefly describe what sampling was performed and summarize results. YES [X] NO []
A description of the sampling results can be omitted if the data are included with the current tabular summaries and groundwater plume maps (if applicable).

Between January and March 1995, CRM supervised the installation of five onsite and six offsite monitoring wells (MW-1 through MW-8, MW-9D, MW-10 and MW-11). The wells were subsequently sampled, and petroleum hydrocarbon and lead concentrations were detected above respective Groundwater Cleanup Target Levels (GCTLs). In March 1995, benzene was detected above its GCTL in the onsite deep well (MW-9D) which is screened from 19 to 24 feet bls.
[X] Results included in current groundwater analytical summary table.

Site map (Figure 6-5 (CAR)) illustrating sampling locations is included in Appendix C
Tabular summary of groundwater results (Table 4A, 4B) is included in Appendix A

Has free product been observed in wells or excavations (not including tank and/or system closures)? If yes, please describe. YES [] NO [X]
A description of the thickness measured can be omitted if the previous data are included with the current tabular summaries and illustrated on current free product plume maps (if applicable).

Free product has not been observed in any wells or excavations on site.

Site map (Figure --) illustrating locations where free product was observed is included in Appendix --
Tabular summary of free product thickness (Table --) is included in Appendix --

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

II-B) Previous Site Assessment (continued)

Has the previous site assessment been approved by the FDEP (was a CAR or SAR approval letter issued?) YES NO
Date site assessment (or contamination assessment) was approved: CAR Comments 6/15/95

II-C) Previous Remediation

Has a Remedial Action Plan been prepared? If yes, please briefly describe the remedial strategy. The description of the remedial strategy can be omitted if the RAP was implemented (this item will be addressed in the active remediation section that follows).

FDEP records do not indicate that a Remedial Action Plan has been prepared at the site.

Date of RAP: -- Prepared by: --
Remedial Action Plan approved by FDEP. Date of RAP approval order --

Was soil excavation (not associated with a system closure) performed? If yes, please briefly describe work performed and discuss results. The description of the source removal can be omitted if already discussed in the initial abatement section.

Source removal activities, other than during the UST system closure, have not been reported for this facility.

Approximate depth to water at time of excavation (if known) -- feet
Site map (Figure --) illustrating sampling locations and extent of excavation(s) is included in Appendix --
Tabular summary of soil sampling results (Table --) is included in Appendix --

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

II-C) Previous Remediation (continued)

Has active remediation been performed? If yes, please indicate dates performed (each applicable technology), evaluate previous system effectiveness and indicate if any previous equipment is still available for cleanup.

YES

NO

Active remediation has not been reported for this facility.

Identify type(s) of active remediation previously performed:

- Air Sparging & Vapor Extraction Groundwater Recovery (pump & treat) Multiphase Extraction (w/dual phase)
- Limited scope well over-development Excavation Enhanced Bio-Remediation (ORC, etc.)
- Free Product Recovery Other: _____

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

SECTION III - Recent Site Assessment Activities

III-A) Soil Investigation

[soil sampling]

Was soil (vadose zone and smear zone) investigated? If yes, please provide a brief discussion of soil sampling methodology, including the method(s) used to collect the laboratory samples. If no, please explain.

Form with YES and NO columns. YES column contains an 'X' in a box, NO column is empty.

On January 30 and January 31, 2017, Earth Systems supervised the advancement of 27 soil borings (SB-A through SB-AA) to a depth of 10 feet bls at the subject site. Soil samples were collected via hand auger and direct push technology (DPT) drilling equipment.
On February 1, 2017, Earth Systems supervised the advancement of four soil borings that were later converted to monitoring wells MW-12 through MW-15. These soil borings were each advanced to a depth of 12 feet bls via hand auger and hollow stem auger. During advancement of the soil borings, Earth Systems collected soil samples at one-foot depth intervals for the first six feet, and at two-foot depth intervals thereafter for organic vapor screening and lithological evaluation.
Based on the previous data, on July 27, 2017 Earth Systems supervised the advancement of 10 additional soil borings (SB-AB through SB-AK).
On July 27 and 28, 2017, Earth Systems supervised the advancement of six soil borings that were later converted to monitoring wells MW-16 through MW-21.
On November 11 and 12, 2017, Earth Systems supervised the advancement of four soil borings that were later converted to monitoring wells MW-12D, MW-15D, MW-16D, and MW-22.
During the soil investigations, Earth Systems characterized soil quality using an OVA equipped with a photoionization detector (OVA/PID) in accordance with the methodology prescribed in Section 62-770 Florida Administrative Code (F.A.C.). OVA/PID readings ranging from less than 1 ppm to 3,664 ppm were detected within the vadose zone. OVA/PID readings ranging from less than 1 ppm to 4,835 ppm were also detected within the smear and saturated zones. The vadose zone is defined as the interval extending from land surface to the water table (approximately 4.0 to 6.0 feet bls).
Based on discussions with the FDEP from the field, on February 1, 2017, a total of eight duplicate vadose zone soil samples were collected for laboratory analyses from the following locations and depth intervals: SB-C (1-2 feet bls); SB-H (2-3 feet bls); SB-K (1-2 feet and 3-4 feet bls); SB-M (1-2 feet and 3-4 feet bls); and SB-Y (1-2 feet and 3-4 feet bls). The soil samples were delivered to SGS Accutest Southeast (Accutest) and analyzed for benzene, toluene, ethylbenzene, total xylenes, and methyl-tert butyl ether (BTEX/MTBE) using EPA Method 8260B, polynuclear aromatic hydrocarbons (PAHs) using EPA Method 8270, and total recoverable petroleum hydrocarbons (TRPH) using the FLPRO Method. Extra soil was collected for contingent TRPH speciation and synthetic precipitate leaching procedure (SPLP) analyses.

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

On July 28, 2017, a total of four duplicate vadose zone soil samples were collected for laboratory analyses from the following locations and depth intervals: SB-AC (2-3 feet bls); SB-AD (1-2 feet bls), SB-AG (1-2 feet bls) and SB-AH (2-3 feet bls). The soil samples were delivered to Accutest for BTEX/MTBE, PAH, TRPH and contingent analyses. Laboratory samples were not collected or analyzed during the November 11 and 12, 2017 well installation.

Date of last soil screening event (OVA data) with or without laboratory sampling: 11/12/17
Site map (Figure 3A & 3B) illustrating sampling locations is included in Appendix B
Tabular summary of soil screening results (Table 1) is included in Appendix A
Tabular summary of laboratory soil sampling results (Table 2A-2E) is included in Appendix A
Soil sampling logs (for laboratory samples) are included in Appendix D

Soil samples (previous sampling events included) have been collected and analyzed for:

Required for all suspected GAG & KAG contaminated sites.

[X] BTEX/MTBE (low/high) [X] PAHs [X] TRPHs

Required for all sites where Used Oil contamination is suspected.

[] Priority Pollutant Volatile [] As, Cd, Cr, Pb [] TRPH
[] Organics & Extractable Organics

III-A) Soil Investigation

Was soil Investigative Derived Waste (IDW) generated? YES NO N/A
[X] [] []
If yes, please describe method used for identifying soil needing disposal:

Based on the soil screening results using an OVA/PID, a total of 15 drums of soil IDW were generated during the soil investigation and monitoring well installation. A pre-disposal soil sample was analyzed by Accutest to profile the soil for proper disposal. A copy of the laboratory analytical report is included in Appendix E. On March 10, 2017, five drums were picked up for disposal. On August 29, 2017, four drums were picked up for disposal. On December 12, 2017, six drums were picked for disposal. The 15 drums were picked up by Clark Environmental, Inc. for proper disposal. A copy of the waste disposal manifests are included in Appendix D.

Volume of contaminated soil disposed of: 15 [X] drums [] cu. yds.
Disposal method: Thermal Treatment

Was soil contamination above applicable Cleanup Target Levels identified above the water table? YES NO N/A
[X] [] []
If yes, identify where concentrations above CTLs were detected, depths encountered and corresponding OVA readings. If no, please indicate whether laboratory results agree with OVA readings (if they do not agree, please discuss significance of OVA screening data and/or reliability of laboratory results). If "N/A", please explain.

Laboratory analytical results indicate hydrocarbons were detected in the soil above SCTLs in the samples collected from soil borings SB-C (1-5.5), SB-K (0-5.5), SB-M (0-5.5), SB-Y (0-5.5), SB-AC (0-4), SB-AD (0-4.5), SB-AG (0-4.5), and SB-AH (0-4). Using OVA/PID soil screening data in conjunction with the laboratory analytical soil data, Earth Systems believes hydrocarbons are present above SCTLs in soil borings SB-B (0-5.5), SB-D (2-5.5), SB-F (1-5.5), SB-G (1-5.5), SB-L (0-5.5), SB-S (2-5), SB-V (0-5.5), SB-Z (2-5.5), and SB-AF (0-4).

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

Approximate volume of vadose zone soil contamination: ~273 cu. yds.
Site map (Figure 3B) illustrating extent of soil contamination is included in Appendix B
Soil concentration summary (Table 2A-2E) is included in Appendix A
Soil sampling logs (for laboratory samples) are included in Appendix D

III-A) Soil Investigation (continued)

Was vadose zone soil contamination delineated? If no, please describe where additional borings should be located (indicating proposed depths of investigations). If "N/A", please explain.

YES NO N/A

[Empty text box for describing where additional borings should be located]

Site map (Figure 3B) illustrating proposed sampling locations is included in Appendix B

Has a smear zone been identified? Definition: The "smear zone" is the soil contamination located within the zone of water table fluctuation (it has been described as a "secondary source" of contamination). If yes, please discuss the horizontal and vertical contaminant mass distribution in the smear zone. If no, please describe what additional information is needed (soil borings, well data, etc.). If "N/A", please explain.

YES NO N/A

According to the January 1995 Site Closure Report, 403.17 tons of petroleum contaminated soil were stockpiled on site during the UST system removal. Contaminated soil was removed from the UST area and the east and west dispenser islands to a total depth of approximately five feet bls. The soil was later transported offsite for thermal treatment. The limited depth to water data from the site indicates a water table fluctuation from approximately 4 to 6.5 feet bls. Based on this information, contaminated soil below 5 feet bls (smear zone) remains at the site.

Site map (Figure --) illustrating proposed sampling locations is included in Appendix --

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

III-B) Groundwater Investigation

[monitoring wells/direct push]

Were monitoring wells installed (or abandoned)? If yes, briefly identify which wells were installed/abandoned and describe their construction. The well locations and construction details can be omitted if the information is included in current site maps and tabular summaries. YES [X] NO []

Earth Systems supervised the installation of four onsite shallow monitoring wells (MW-12 through MW-15) on February 1, 2017. The monitoring wells were installed to assess the presence and the extent of dissolved hydrocarbon impacts in the vicinity of the former dispenser, product lines, and UST areas. The monitoring wells were constructed with 2 feet of 2-inch diameter solid PVC riser and 10 feet of 0.010-inch slotted PVC well screen. All manholes were completed flush to surface grade within a 2-feet by 2-feet concrete well pad with locking cap.
On July 27 and July 28, 2017, Earth Systems supervised the installation of six additional shallow monitoring wells (MW-16 through MW-21). The monitoring wells were installed to delineate the shallow dissolved impacts and two of the wells (MW-16 and MW-17) were installed offsite to the north of the property boundary on the south side of Bonita Beach Road.
On November 11 and 12, 2017, Earth Systems supervised the installation of one additional shallow monitoring well (MW-22) and three deep monitoring wells (MW-12D, MW-15D, and MW-16D). The shallow monitoring well was installed to delineate the shallow dissolved impacts and the three deep wells were installed to delineate the vertical extent of the dissolved impacts.

Site map (Figure 1B) illustrating the well locations is included in Appendix B
Tabular summary of well construction details (Table 3) is included in Appendix A
Monitoring well completion reports are included in Appendix D

Was direct push (geoprobe) groundwater grab-sampling performed? If yes, briefly identify the locations and depths where the samples were collected. A description of the sample locations and results can be omitted if the information is included in current site maps and tabular summaries. YES [] NO [X]

No direct push groundwater grab samples were collected during this investigation.

Site map (Figure --) illustrating the groundwater sampling results is included in Appendix --
Tabular summary of groundwater sampling results (Table --) is included in Appendix --

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

III-B) Groundwater Investigation (continued)

Was groundwater IDW generated? If yes, please explain why disposal on-site was not possible. YES NO N/A

Groundwater IDW was not generated at the site.

Volume of contaminated groundwater disposed of: -- drums gallons

[groundwater results]

Was groundwater contamination identified above the applicable Cleanup Target Levels? If yes, indicate locations where highest concentrations detected with depths encountered. If "N/A", please explain. YES NO N/A

Groundwater impacts were identified in the location of monitoring wells MW-12, MW-13, MW-15, and MW-22 that were screened from the interval of 2 feet to 12 feet bls. The highest concentrations were detected near the former eastern dispensers.

Approximate volume of contaminated groundwater: 500,000 gallons
Plume maps [Figure(s) 4A] illustrating extent of groundwater contamination is/are included in Appendix B

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp

Facility ID #: 36/8520618

Date: January 2018

III-B) Groundwater Investigation (continued)

Has horizontal delineation been completed in the surficial aquifer? If no, please describe where additional sampling is required (indicating wells and needed analyses) and/or additional monitoring wells should be installed (indicating proposed screened intervals for each). If "N/A", please explain.

YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Site map (Figure --) illustrating proposed monitoring well locations is included in Appendix --

Has vertical delineation been completed in the plume area? If no, please describe where additional sampling is required (indicating needed analyses) and/or identify locations where vertical extent well(s) should be installed (indicating proposed screened intervals, single or double cased and length of surface casings). If "N/A", please explain.

YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Site map (Figure --) illustrating proposed vertical extent well locations is included in Appendix --

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

III-B) Groundwater Investigation (continued)

Is the lower aquifer(s) contaminated? If yes, please describe location and estimated depth of contamination. If unknown, please explain. YES NO Unknown

During the installation of deep monitoring wells MW-12D, MW-15D, and MW-16D, a dense clayey layer was encountered beginning at a depth of approximately 24 feet bls. The clayey layer was not penetrated during the deep well installation. Since the groundwater samples collected from deep monitoring wells MW-12D, MW-15D, and MW-16D did not contain tested compounds above GCTLs, deeper groundwater impacts are not expected.

Cross-section (Figure 6B) illustrating vertical extent of contamination is included in Appendix B

Were natural attenuation parameters data collected? If yes, please specify which parameters were collected (and where collected) and provide interpretation of results. YES NO

Natural attenuation parameter data were not collected during this assessment.

Site map (Figure --) illustrating natural attenuation parameter data is included in Appendix --
Tabular summary of parameter sampling results (Table --) is included in Appendix --

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp

Facility ID #: 36/8520618

Date: January 2018

III-B) Groundwater Investigation (continued)

[impacted receptors]

YES NO Unknown

Have any supply wells or surface waters been impacted?
If yes, please indicate concentration(s) of water sample(s) taken and the wells/surface water body/bodies impacted. If unknown, please explain.

No known supply wells or surface water bodies have been impacted.

YES NO Unknown

Is surface water and/or sediment sampling required? If yes, please indicate where samples should be collected, and the proposed analyses.
[Note: surface water sampling results should be summarized with the groundwater analytical results and sediment sampling results should be summarized with the soil analytical results.] If unknown, please explain.

Surface water and/or sediment samples are not required at this time.

Site map (Figure --) illustrating sampling locations is included in Appendix --

YES NO Unknown

Are there any potable wells that need to be sampled? If yes, please indicate wells to be sampled, and the proposed analyses. If unknown, please explain.

No known potable wells need to be sampled.

Site map (Figure --) illustrating potable well locations is included in Appendix --

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

III-C) Free Product Investigation

Is free product present? If yes, please indicate where product has been observed and its thickness, describe the product (color, odor, etc.) and estimate the type and age of the product.

YES [] NO [X]

Free product has not been observed at the site.

Site map (Figure --) illustrating free product thickness at well locations is included in Appendix --
Tabular summary of free product thickness (Table --) is included in Appendix --

Has the extent of free product been delineated? If no, please describe where additional wells or piezometers should be located.

YES [] NO [] N/A [X]

[Empty response box]

Site map (Figure --) illustrating locations of proposed piezometers or wells is included in Appendix --

Is free product recovery ongoing? If yes, please indicate the method and frequency of removal and summarize recovery efforts to date.

YES [] NO [] N/A [X]

[Empty response box]

Tabular summary of product recovery amounts (Table --) is included in Appendix --

If free product recovery is not ongoing, are free product recovery efforts recommended? If yes, please indicate the proposed method and frequency of removal. If no, please explain why product removal is not recommended.

YES [] NO [] N/A [X]

[Empty response box]

Site map (Figure --) illustrating locations of proposed additional piezometers and/or wells for free product recovery is included in Appendix --

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

III-D) Comments

Any issues or concerns not addressed in previous questions which might help better describe the degree and extent of the contamination at this site.

Based on the CAR (1994) four USTs were removed on November 9, 1994. The three pump dispensers and associated product piping were excavated and removed on November 16, 17, and 18, 1994. The Bonita B.P. station had been registered with the FDEP as having maintained four 10,000-gallon USTs prior to November 1994. Three of the UST's had contained gasoline, and the fourth UST contained diesel.

On June 6, 2017 following a heavy rain event, the Fire Department was dispatched to investigate a strong petroleum odor in the northeast portion of the parking lot at the Fifth Third Bank. The Fire Department concluded the odors were associated with fuel tanks at the former gas station and were not hazardous. A copy of the Fire Department Report is included in **Appendix C**.

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

SECTION IV - Impacted Media

IV-A) Lithologic Summary

The impacted aquifer(s) can be best characterized by the following description (predominantly):

Select One

- Sands [SW, SP, SM]
Sandy Clay, Clayey Sand or Silty Clays [SC, ML, CL]
Clays [CH]
Intermingled Sands and Clays
Intermingled Sands, Clays and Limestone
Limestone [LS]

Please describe a typical soil column and all defined aquifers (perched/upper/lower). This should include a brief description of the site lithology (using the Unified Soil Classification System), and all other geologic and/or hydrogeologic characteristics of the area which might influence migration or transport of the contamination.

During advancement of soil borings and installation of monitoring wells from January to November 2017, Earth Systems described the lithology based on collected soil samples. Earth Systems encountered fine to medium grained sands to a depth of approximately 24 feet bls. Dense clay was encountered at approximately 25 feet bls (the total depth of the boring).
Depth to groundwater in the study area is approximately 4 to 6.5 feet bls. Soil boring logs with lithologic descriptions are provided in Appendix D. The descriptions include the Unified Soil Classification System (USCS) abbreviations.

Lithologic cross-section (Figure 6A, 6B) is included in Appendix B

Is the lithologic information obtained to date sufficient to characterize the impacted media? If no, please explain [indicating area(s) where additional lithologic data are needed].

YES [X] NO

A map illustrating where the additional borings/wells need to be located can be omitted if those locations have been identified in the soil and/or groundwater sections.

Additional lithologic characterization is not requested.

Site map illustrating proposed lithologic boring locations (Figure --) is included in Appendix --

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

IV-B) Hydrologic Summary

Have all the monitoring well tops-of-casings been surveyed? If no, please describe why this information has not been obtained. [Note, the TOC survey does not have to be performed by a Professional Land Surveyor. However, if the monitoring wells are installed prior to the survey, then the TOCs should be included in the Professional Land Survey.]

The site's monitoring wells were surveyed relative to an arbitrary datum during field events on February 13, 2017; August 2, 2017; and December 1, 2017. Well elevation data is provided on Table 3.

Was a professional land survey performed? If yes, please indicate date of survey, whether it was saved on disk (indicating type of program), and who performed it. Also indicate which monitoring wells (if any) were included in the survey. [Note: the site map must be based on the professional land survey.]

A professional land survey was not conducted as part of this assessment.

Is original signed and sealed professional land survey included?

Is copy of electronic version of land survey (labeled with ID #, site name & report date) included?

Have depth to groundwater and groundwater flow direction in the upper zone aquifer been determined? If yes, please indicate average depth to water and fluctuation range (low/high stand) in all impacted areas of the site. If no, please explain.

The average depth to water on August 14, 2017 was 3.44 feet bls. Water level measurements in the ten monitoring wells which bisect the water table indicate shallow groundwater flow is generally towards the northwest. The depth to water measurements are summarized in Table 3. Shallow Groundwater Elevation Contour Maps from February 13, 2017 and August 14, 2017 are provided as Figure 5A and Figure 5B.

Site map(s) [Figure(s) 5A, 5B] illustrating upper zone water table elevations and interpretation(s) of groundwater flow direction(s) is/are included in Appendix B
Tabular summary of all groundwater elevation data (Table 3) is included in Appendix A

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

IV-B) Hydrologic Summary (continued)

Have depth to groundwater and groundwater flow direction(s) in lower and/or intermediate aquifer(s) been determined? YES NO X

If yes, please indicate average depth to water and fluctuation range in vertical extent wells (low/high stand). If no, please explain.

Although deep monitoring wells MW-12D, MW-15D, and MW-16D are screened deeper than the shallow wells at the site, an intermediate or lower aquifer was not encountered during the investigation. A groundwater elevation contour map for monitoring wells MW-12D, MW-15D, and MW-16D is included as Figure 5C.

Site map [Figure(s) 5C] illustrating lower/intermediate zone water table elevations and interpretation(s) of groundwater flow direction(s) is/are included in Appendix B

Are perched aquifer conditions suspected? If yes, please indicate estimated depth and thickness of perched zone and whether perched zone extends across entire site. YES NO X

Perched aquifer conditions were not encountered at the site.

Site map (Figure --) illustrating estimated lateral extent of perched zone (when it does not extend across entire site), water level elevations and interpretation(s) of groundwater flow direction(s) is/are included in Appendix --

Is the site tidally influenced? If yes, please indicate tidal fluctuation range and whether groundwater flow direction might change during tidal cycle. YES NO Unknown X

If unknown, please indicate whether this issue is important at this site (outlining data collection plan if needed).

A tidal influence was not encountered at the site.

Site map(s) [Figure(s) --] illustrating changes in flow direction is/are included in Appendix --

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

IV-B) Hydrologic Summary (continued)

Is groundwater flow in the impacted aquifers being influenced by pumping from nearby water supply wells? YES NO Unknown
If yes, please explain how this was determined and indicate which water well(s) are influencing groundwater flow. If unknown, please indicate whether this issue is important at this site (outlining data collection plan if needed).

Groundwater flow does not appear to be influenced by pumping from nearby water supply wells.

Site map(s) [Figure(s) --] illustrating changes in flow direction due to pumping from nearby water supply wells is/are included in Appendix --

Has the average hydraulic gradient (ft/ft) been determined? YES NO N/A
If yes, please indicate range of values (if applicable) and whether gradient is uniform across the site. Is there evidence of a vertical gradient? If "N/A", please explain.

Based on the August 14, 2017 gauging data, the average hydraulic gradient across the limited study area is approximately 0.003 ft/ft.
(elevation of groundwater in MW-20 - elevation of groundwater in MW-18 divided by distance from MW-20 to MW-18 = (6.77 - 6.28) / 150 = 0.003 ft/ft)
(elevation of groundwater in MW-21 - elevation of groundwater in MW-16 divided by distance from MW-21 to MW-16 = (6.68 - 6.16) / 155 = 0.003 ft/ft).

Hydraulic gradient data and calculations included in Appendix --

Have any aquifer tests been performed at the subject site? YES NO
If yes, please describe test method (slug test, pumping test, etc.), which wells were used, date performed and summarize test results [transmissivity, hydraulic conductivity, rate of groundwater flow, pumping rates (gpm), etc.]

An aquifer performance test (APT) was conducted during the preparation of the CAR. The APT consisted of pumping monitoring well MW-1 at a steady rate and measuring induced water level drawdown in a temporary observation well designated as OW-1. The APT was completed on January 17, 1995. Monitoring well MW-1 was pumped with the use of a centrifugal pump. Induced water level drawdown were measured within observation well OW-1 utilizing the United States Geological Survey (USGS) wetted-tape method, which is accurate to 0.01 ± feet. The APT was one (1) hour in duration. The transmissivity of the water table aquifer was calculated utilizing the straight-line method (Jacob, 1950) and the graphic method of Hantush-Jacob (1955) as adapted to a method devised by Cooper (1963). The transmissivity was calculated to 3,000 gallons per day per square foot at a pumping rate of 2.5 gallons per minute and a drawdown of 0.15 feet using the graphic method. The transmissivity was calculated to 1,900 gallons per day per square foot at a pumping rate of 2.5 gallons per minute and a drawdown of 0.22 feet using the straight-line method. The average transmissivity is estimated to be 2,300 gallons per day per square foot and the average storage coefficient is calculated to be 0.012. Details of the test and method are provided in the CAR in Appendix C.

Aquifer test data and calculations included in Appendix C (CAR)

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

IV-B) Hydrologic Summary (continued)

Depth to groundwater in upper zone water-table wells (ft):	<u>2.93</u>	to	<u>4.20</u>	Average (ft):	<u>3.44</u>
Depth to groundwater in lower zone vertical extent wells (ft):	<u>4.27</u>	to	<u>4.69</u>	Average (ft):	<u>4.41</u>
Observed maximum range of upper zone fluctuation (ft):	<u>1.27</u>	Tidally influenced? Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>

IV-C) Risk Evaluation

Is human health, safety, or welfare affected by exposure to the contamination or will the contamination substantially affect, or migrate to and substantially affect a known public or private source of potable water? If yes, please describe in detail.

YES NO

SECTION V - Post Assessment Summary & Recommendations

Filled out AFTER site assessment has been completed

V-A) Site Assessment Summary

The Site Assessment Summary table shall be completed and submitted as an attachment to this TSAR. The summary is a separate Excel worksheet.

Site Assessment Summary completed and included as Table 5 in Appendix A.

Are all the documents submitted to date adequate to meet the site assessment requirements of Rule 62-780.600, Florida Administrative Code (F.A.C.)? YES NO

V-B) Recommendations

Is No Further Action (NFA) without conditions recommended? If yes, please provide reasons NFA is appropriate. YES NO

Is No Further Action (NFA) with conditions recommended? If yes, please provide reasons conditional NFA is appropriate and describe the conditions [the needed institutional or engineering controls] pursuant to Rule 62-770.680(2), F.A.C. YES NO

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

V-B) Recommendations (continued)

If the groundwater plume is shrinking or stable is there any reason that Remediation by Natural Attenuation (RNA) cannot be the selected remedial strategy?

YES

NO

If no, outline the proposed monitoring plan including monitoring wells, sampling parameters and sampling frequency. If yes, specify why natural attenuation is not appropriate.

Due to NADC exceedances in groundwater and a soil source apparently leaching to the groundwater, natural attenuation is not recommended as a remedial strategy.

Monitoring Wells: --

Contaminants: -- Frequency: -- Duration: --

Is Source Removal (soil or free product) recommended? If yes, please outline proposed method and extent of source removal (is dewatering needed?)

YES

NO

Site map (Figure --) illustrating proposed extent of excavation is included in Appendix --

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

V-B) Recommendations (continued)

Is a Limited Scope Remedial Action Plan (LSRAP) needed?
If yes, please provide reasons for performing limited remediation and briefly outline plan for remediation.

YES NO

Site map (Figure --) illustrating locations of any proposed recovery wells (if applicable) is included in Appendix --

If RAP already approved for site...

Is a Remedial Action Modification Plan (RAMP) needed?
If yes, please provide reasons for continuing approved RA at the site and indicate proposed modifications.

YES NO

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

V-B) Recommendations (continued)

Is a Remedial Action Plan (RAP) needed? If yes, please provide reasons for performing in-situ remediation at the site and indicate which remediation technology or combination of technologies is recommended or should be evaluated (with reasons for recommendation).

YES

NO

Based on the current use of the property (developed as a bank), in-situ air sparging with soil vapor extraction is recommended to reduce disruptions to the active business.

Is a Pilot Test recommended? If yes, please indicate recommended remedial technology and outline specifics of proposed pilot test. Details include area of site where test is planned, recovery/air sparging well construction details, which wells will be used to evaluate test, proposed recovery and/or pumping and/or blowing rates and plan for IDW disposal (if applicable).

YES

NO

The FDEP should be consulted before preparing a pilot test outline.

An air sparge and soil vapor extraction pilot test is recommended to provide site-specific data and confirm the technologies will be effective for cleanup at the site. Due to the magnitude of the soil and groundwater impacts at the site, high vapor levels are possible and may require a catalytic oxidizer for off-gas treatment instead of typical activated carbon treatment. The pilot test outline (Pilot Test Plan) is typically prepared during the Remedial Action Plan phase of the project.

Site map (Figure --) illustrating pilot test layout is included in Appendix --

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
Facility ID #: 36/8520618
Date: January 2018

V-C) Comments

Any issues or concerns not addressed in previous questions which might influence remediation decisions at this site.

None at this time.

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp
 Facility ID #: 36/8520618
 Date: January 2018

SECTION VI - Program Issues
(for state funded cleanup sites)

List of all consultant company personnel (not subcontractor employees) that participated in the field work or helped to prepare the report:

<u>Name</u>	<u>Duties</u>	<u>Dates On-Site</u> <u>(if applicable)</u>	
<u>Jeremy Turner</u>	<u>Project Manager/TSAR Preparation</u>	<u>12-1-16</u>	<u>thru 11-3-17</u>
<u>Danny Christ</u>	<u>Field Technician</u>	<u>5-17-17</u>	<u>thru 5-17-17</u>
<u>Kris Decker</u>	<u>Field Technician</u>	<u>8-1-17</u>	<u>thru 11-12-17</u>
<u>Gary Bosco</u>	<u>TSAR Preparation/Review</u>		
<u>Scott Moore</u>	<u>TSAR Preparation/Review</u>		
			<u>thru</u>
			<u>thru</u>

VI-A) Work Plan and Cost Summary

Briefly summarize initial work plan.

Conduct File Review, prepare Historical Summary Worksheet and Health & Safety Plan (HASP). Conduct site reconnaissance/field measurement visit including gauging depth to water and determining top of casing elevations in the existing monitoring wells according to the attached Water Sampling Table; Prepare a Modified Site Assessment Proposal.

Obtain all necessary off-site access agreement(s), conduct Receptor Survey/Exposure Pathway ID. Advance soil borings (screening & sampling), install monitoring wells, collect groundwater and soil samples per the attached Water Sampling Table, Soil and Air Sampling Table, and Soil Boring and Well Installation Table. Upon completion of Task 2 field activities, and contingent on FDEP site manager approval, prepare an Interim Assessment Report.

Prepare and submit a General Site Assessment Report in the TSAR format.

Copy of original work order or task assignment is included in appendix F

Was any extra work authorized? If yes, please summarize extra work planned for site.

YES	NO
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Per Diem was added to the Purchase Order (PO) in CO #2. Additional soil and groundwater assessment to delineate the plumes was added to the PO in CO #5. Additional monitoring wells to delineate the horizontal and vertical extent of the groundwater impacts was added to the PO in CO #7. COs #1, #3, #4, and CO #6 were related to due date extensions. The approved CO forms are included in **Appendix F**.

Copies of all authorization forms are included in Appendix F

TEMPLATE SITE ASSESSMENT REPORT

Site Name: BP Bonita-Oleum Corp

Facility ID #: 36/8520618

Date: January 2018

VI-A) Work Plan and Cost Summary (continued)

Was any planned work not performed? If yes, please describe work not performed with reasons why not performed.

YES

NO

Are there any changes in cost from original work order, purchase order, or task assignment? If yes, please describe the changes and cost adjustments that will be required for invoicing.

YES

NO

Changes have been reflected in the issued COs and will be invoiced accordingly.

Copies of all needed subcontractor and/or materials invoices and draft change order cost template included in Appendix F

TABLE 2A: SOIL ANALYTICAL SUMMARY - VOAs, TRPHs and Metals

Facility ID#: 36/8520618

Facility Name: BP Bonita-Oleum Corp

See notes at end of table.

Sample				OVA	Laboratory Analyses										Comments
Boring/ Well No.	Date Collected	Depth to Water (ft)	Sample Interval (fbls)	Net OVA Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TRPHs (mg/kg)	Arsenic (mg/kg)	Cad-mium (mg/kg)	Chro-mium (mg/kg)	Lead (mg/kg)	
SB-C	2/1/17	5.5	1-2	>1000	0.695	0.072 U	11.6	3.32	0.072 U	39.0	--	--	--	--	
SB-H	2/1/17	5.0	2-3	41.9	0.0012 U	0.0010 U	0.0010 U	0.0021 U	0.0010 U	5.31 I	--	--	--	--	
SB-K	2/1/17	5.5	1-2	>1000	0.086 U	0.070 U	1.15	0.515 I	0.070 U	35.5	--	--	--	--	
			3-4	>1000	5.29	1.06 I	101	111	0.53 U	1300 D⁴⁰	--	--	--	--	
SB-M	2/1/17	5.5	1-2	>1000	1.12	0.0706 I	22.8	0.410 I	0.050 U	437 D¹⁰	--	--	--	--	
			3-4	>1000	0.529	0.051 U	11.2	0.287 I	0.051 U	323 D ¹⁰	--	--	--	--	
SB-Y	2/1/17	5.5	1-2	>1000	2.54	0.380	43.7	52.8	0.061 U	359 D¹⁰	--	--	--	--	
			3-4	>1000	1.36	0.202 I	22.1	25.8	0.049 U	241 D ¹⁰	--	--	--	--	
SB-AC	7/28/17	4.0	2-3	>1000	3.94	0.322	71.4	1.88	0.057 U	553 D⁵	--	--	--	--	
SB-AD	7/28/17	4.5	1-2	>1000	0.248 I	0.149 I	43.2	0.326 I	0.066 U	507 D⁵	--	--	--	--	
SB-AG	7/28/17	4.5	1-2	>1000	0.852	0.286	13.2	0.295 I	0.052 U	274 D ⁵	--	--	--	--	
SB-AH	7/28/17	4.0	2-3	>1000	0.438	0.114 I	9.67	0.284 I	0.055 U	224 D ⁵	--	--	--	--	
Leachability Based on Groundwater Criteria (mg/kg)					0.007	0.5	0.6	0.2	0.09	340	*	7.5	38	*	
Direct Exposure Residential (mg/kg)					1.2	7,500	1,500	130	4,400	460	2.1	82	210	400	

-- = Sample not analyzed for constituent

OVA = Organic Vapor Analyzer

MTBE = Methyl tert-Butyl Ether

TRPH = Total Recoverable Petroleum Hydrocarbons

ft = feet, fbls = feet below land surface

ppm = parts per million, mg/kg = milligrams per kilogram

Exposure values based upon 62-777 F.A.C. criteria (April 17, 2005)

Results in bold exceed Soil Cleanup Target Levels (SCTLs)

* = Leachability value may be determined using TCLP

Qualifiers:

U = Result below MDL

I = Result between MDL and PQL

D^x = Sample diluted by a factor of x

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Synthetic Precipitate Leaching Procedure (SPLP) Results

Sample				OVA	Laboratory Analyses										Comments
Boring/ Well No.	Date Collected	Depth to Water (ft)	Sample Interval (fbls)	Net OVA Reading (ppm)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TRPHs (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chro-mium (µg/L)	Lead (µg/L)	
SB-C	2/1/2017	5.5	1-2	>1000	2.8	1.5 V	64.3 V	16.7	0.23 U	--	--	--	--	--	
SB-K	2/1/2017	5.5	1-2	>1000	0.53 I	1.4 V	8.9 V	5.4	0.23 U	--	--	--	--	--	
SB-M	2/1/2017	5.5	1-2	>1000	5.5	1.9 V	91.2 V	3.4	0.23 U	--	--	--	--	--	
			3-4	>1000	4.2	1.9 V	85.7 V	3.5	0.23 U	--	--	--	--	--	
SB-AD	7/28/2017	4.5	1-2	>1000	2.7	6.0	171 D⁵	24.1	0.23 U	--	--	--	--	--	
SB-AG	7/28/2017	4.5	1-2	>1000	1.3	1.6	36.7	12.3	0.23 U	--	--	--	--	--	
SB-AH	7/28/2017	4.0	2-3	>1000	0.62 I	4.0	70.2	193	0.38 I	--	--	--	--	--	
GCTLs					1**	40**	30**	20**	20	5,000	10**	5**	100**	15**	
NADCs					100	400	300	200	200	50,000	100	50	1,000	150	

-- = Sample not analyzed for constituent

NCD = no compounds detected

** = As provided in Chapter 62-550, F.A.C.

Concentrations in bold are above GCTLs

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

NADCs = Natural Attenuation Default Source Concentrations specified in Table V of Chapter 62-777, F.A.C.

Analytical Results reported in micrograms per liter (µg/L)

MTBE = Methyl tert-Butyl Ether

VOAs = Volatile Organic Aromatics

Qualifiers:

U = Result below MDL

I = Result between MDL and PQL

V = Analyte found in associated method blank

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

TABLE 2B: SOIL ANALYTICAL SUMMARY - Non-Carcinogenic PAHs

Facility ID#: 36/8520618

Facility Name: BP Bonita-Oleum Corp

See notes at end of table.

Sample				OVA	Laboratory Analyses											Comments	
Boring/ Well No.	Date Collected	Depth to Water (ft)	Sample Interval (fbls)	Net OVA Reading (ppm)	Naphthalene (mg/kg)	1-Methylnaphthalene (mg/kg)	2-Methylnaphthalene (mg/kg)	Acenaphthene (mg/kg)	Acenaphthylene (mg/kg)	Anthracene (mg/kg)	Benzo (g,h,i) perylene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Phenanthrene (mg/kg)	Pyrene (mg/kg)		
SB-C	2/1/17	5.5	1-2	>1000	2.67	1.88	3.62 D ¹⁰	0.029 U	0.029 U	0.018 U	0.0051 I	0.018 U	0.029 U	0.018 U	0.018 U		
SB-H	2/1/17	5.0	2-3	41.9	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.018 U	0.0035 U	0.018 U	0.028 U	0.018 U	0.018 U		
SB-K	2/1/17	5.5	1-2	>1000	1.91	1.40	2.37 D ⁴	0.027 U	0.027 U	0.017 U	0.0034 U	0.017 U	0.027 U	0.017 U	0.017 U		
			3-4	>1000	54.5 D⁴⁰	33.3 D⁴⁰	70.2 D⁴⁰	0.199 I	0.14 U	0.088 U	0.0268 I	0.124 I	0.195 I	0.246 I	0.113 I	5X or 40X Dilution	
SB-M	2/1/17	5.5	1-2	>1000	17.9 D¹⁰	12.5 D¹⁰	26.4 D¹⁰	0.120	0.0411 I	0.0477 I	0.0057 I	0.017 U	0.164	0.172	0.0438 I		
			3-4	>1000	20.0 D¹⁰	11.6 D¹⁰	25.3 D¹⁰	0.134	0.0427 I	0.0483 I	0.0079 I	0.0435 I	0.198	0.176	0.0433 I		
SB-Y	2/1/17	5.5	1-2	>1000	19.2 D¹⁰	12.9 D¹⁰	26.4 D¹⁰	0.0798	0.030 U	0.0312 I	0.0177	0.0632 I	0.0951	0.103	0.0698 I		
			3-4	>1000	13.5 D¹⁰	8.93 D¹⁰	17.6 D¹⁰	0.0455 I	0.028 U	0.0198 I	0.0046 I	0.0212 I	0.0550 I	0.0669 I	0.0251 I		
SB-AC	7/28/17	4.0	2-3	>1000	40.5 D²⁵	25.8 D¹⁰	42.8 D²⁵	0.30 U	0.30 U	0.19 U	0.037 U	0.19 U	0.30 U	0.238 I	0.19 U	10X or 25X Dilution	
SB-AD	7/28/17	4.5	1-2	>1000	17.7 D¹⁰	9.99 D¹⁰	20.0 D¹⁰	0.12 U	0.12 U	0.073 U	0.015 U	0.073 U	0.299	0.183 I	0.073 U	4X or 10X Dilution	
SB-AG	7/28/17	4.5	1-2	>1000	15.1 D¹⁰	9.63 D¹⁰	18.9 D¹⁰	0.11 U	0.11 U	0.071 U	0.014 U	0.071 U	0.304	0.215 I	0.0844 I	4X or 10X Dilution	
SB-AH	7/28/17	4.0	2-3	>1000	5.64 D¹⁰	5.17 D¹⁰	11.2 D¹⁰	0.029 U	0.029 U	0.0197 I	0.0037 U	0.018 U	0.0465 I	0.0670 I	0.0212 I		
Leachability Based on Groundwater Criteria (mg/kg)					1.2	3.1	8.5	2.1	27	2,500	32,000	1,200	160	250	880		
Direct Exposure Residential (mg/kg)					55	200	210	2,400	1,800	21,000	2,500	3,200	2,600	2,200	2,400		

-- = Sample not analyzed for constituent

Exposure values based upon 62-777 F.A.C. criteria (April 17, 2005)

Qualifiers: U = Result below MDL

OVA = Organic Vapor Analyzer

Results in bold exceed Soil Cleanup Target Levels (SCTLs)

I = Result between MDL and PQL

ft = feet, fbls = feet below land surface

D^x = Sample diluted by a factor of x

ppm = parts per million, mg/kg = milligrams per kilogram

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Synthetic Precipitate Leaching Procedure (SPLP) Results

Sample				OVA	Laboratory Analyses											Comments
Boring/ Well No.	Date Collected	Depth to Water (ft)	Sample Interval (fbls)	Net OVA Reading (ppm)	Naphthalene (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Acenaphthene (µg/L)	Acenaphthylene (µg/L)	Anthracene (µg/L)	Benzo (g,h,i) perylene (µg/L)	Fluoranthene (µg/L)	Fluorene (µg/L)	Phenanthrene (µg/L)	Pyrene (µg/L)	
SB-C	2/1/2017	5.5	1-2	>1000	2.6	1.6	1.3	0.39 U	0.39 U	0.25 U	0.039 U	0.25 U	0.39 U	0.25 U	0.25 U	
SB-K	2/1/2017	5.5	1-2	>1000	16.4	5.2	7.1	0.41 U	0.41 U	0.26 U	0.041 U	0.26 U	0.41 U	0.26 U	0.26 U	
			3-4	>1000	363 D²⁰	86.3 D²⁰	138 D²⁰	0.41 U	0.41 U	0.26 U	0.041 U	0.26 U	0.41 U	0.26 U	0.26 U	
SB-M	2/1/2017	5.5	1-2	>1000	248 D²⁰	78.1 D²⁰	115 D²⁰	0.44 I	0.40 U	0.25 U	0.040 U	0.25 U	0.54 I	0.30 I	0.25 U	
			3-4	>1000	179 D¹⁰	52.7 D¹⁰	78.7 D¹⁰	0.41 U	0.41 U	0.26 U	0.041 U	0.26 U	0.41 U	0.26 U	0.26 U	
SB-Y	2/1/2017	5.5	1-2	>1000	182 D²⁰	51.1 D²⁰	78.8 D²⁰	0.41 I	0.40 U	0.25 U	0.040 U	0.25 U	0.40 U	0.25 U	0.25 U	
			3-4	>1000	39.5 D¹⁰	37.9 D¹⁰	16.6 D¹⁰	0.40 U	0.40 U	0.25 U	0.040 U	0.25 U	0.40 U	0.25 U	0.25 U	
SB-AC	7/28/2017	4.0	2-3	>1000	348 D¹⁰	83.0 D¹⁰	126 D¹⁰	0.40 U	0.40 U	0.25 U	0.040 U	0.25 U	0.40 U	0.25 U	0.25 U	
SB-AD	7/28/2017	4.5	1-2	>1000	189 D⁸	53.1 D⁸	77.2 D⁸	0.40 U	0.40 U	0.25 U	0.040 U	0.25 U	0.40 U	0.25 U	0.25 U	
SB-AG	7/28/2017	4.5	1-2	>1000	139 D¹⁰	37.9 D¹⁰	58.8 D¹⁰	0.40 U	0.40 U	0.25 U	0.040 U	0.25 U	0.40 U	0.26 I	0.25 U	
SB-AH	7/28/2017	4.0	2-3	>1000	55.6 D⁴	23.9	36.3	1.0	0.40 U	0.26 I	0.040 U	0.48 I	0.89 I	4.0	0.25 U	
GCTLs					14	28	28	20	210	2,100	210	280	280	210	210	
NADCs					140	280	280	200	2,100	21,000	2,100	2,800	2,800	2,100	2,100	

Concentrations in bold are above GCTLs

Qualifiers: U = Result below MDL

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

I = Result between MDL and PQL

NADCs = Natural Attenuation Default Source Concentrations specified in Table V of Chapter 62-777, F.A.C.

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

TABLE 2C: SOIL ANALYTICAL SUMMARY - Carcinogenic PAHs

Facility ID#: 36/8520618

Facility Name: BP Bonita-Oleum Corp

See notes at end of table.

Sample				OVA	Laboratory Analyses								Comments
Boring/ Well No.	Date Collected	Depth to Water (ft)	Sample Interval (fbls)	Net OVA Reading (ppm)	Benzo (a) pyrene (mg/kg)	Benzo (a) anthracene (mg/kg)	Benzo (b) fluoranthene (mg/kg)	Benzo (k) fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenz (a,h) anthracene (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)	Benzo (a) pyrene equivalent (mg/kg)	
SB-C	2/1/17	5.5	1-2	>1000	0.0057 I	0.0045 I	0.0097 I	0.0036 U	0.0050 I	0.0036 U	0.0055 I	0.01	
SB-H	2/1/17	5.0	2-3	41.9	0.0035 U	0.0035 U	0.0049 I	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.004	
SB-K	2/1/17	5.5	1-2	>1000	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.004	
			3-4	>1000	0.0406 I	0.0459 I	0.0673 I	0.0244 I	0.0570 I	0.018 U	0.0294 I	0.064	5X Dilution
SB-M	2/1/17	5.5	1-2	>1000	0.0067 I	0.0121 I	0.0097 I	0.0035 U	0.0110 I	0.0035 U	0.0042 I	0.011	
			3-4	>1000	0.0079 I	0.0121 I	0.0083 I	0.0035 U	0.0101 I	0.0035 U	0.0053 I	0.012	
SB-Y	2/1/17	5.5	1-2	>1000	0.0204	0.0221	0.0377	0.0101 I	0.0319	0.0037 U	0.0166	0.030	
			3-4	>1000	0.0058 I	0.0095 I	0.0094 I	0.0035 U	0.0087 I	0.0035 U	0.0046 I	0.01	
SB-AC	7/28/17	4.0	2-3	>1000	0.037 U	0.0402 I	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.045	10X Dilution
SB-AD	7/28/17	4.5	1-2	>1000	0.015 U	0.0193 I	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.019	4X Dilution
SB-AG	7/28/17	4.5	1-2	>1000	0.0160 I	0.0243 I	0.014 U	0.014 U	0.0221 I	0.014 U	0.014 U	0.027	4X Dilution
SB-AH	7/28/17	4.0	2-3	>1000	0.0037 U	0.0114 I	0.0037 U	0.0037 U	0.0058 I	0.0037 U	0.0037 U	0.005	
Leachability Based on Groundwater Criteria (mg/kg)					8	0.8	2.4	24	77	0.7	6.6	**	
Direct Exposure Residential (mg/kg)					0.1	#	#	#	#	#	#	0.1	

-- = Sample not analyzed for constituent

= Direct Exposure value not applicable except as part of the Benzo(a)pyrene equivalent.

NCD = No Compounds Detected

** = Leachability value not applicable

OVA = Organic Vapor Analyzer

Qualifiers: U = Result below MDL

ft = feet, fbls = feet below land surface

I = Result between MDL and PQL

ppm = parts per million, mg/kg = milligrams per kilogram

MDL = Method Detection Limit

Exposure values based upon 62-777 F.A.C. criteria (April 17, 2005)

PQL = Practical Quantitation Limit

Results in bold exceed Soil Cleanup Target Levels

Synthetic Precipitate Leaching Procedure (SPLP) Results

Sample				OVA	Laboratory Analyses								Comments
Boring/ Well No.	Date Collected	Depth to Water (ft)	Sample Interval (fbls)	Net OVA Reading (ppm)	Benzo (a) anthracene (µg/L)	Benzo (a) pyrene (µg/L)	Benzo (b) fluoranthene (µg/L)	Benzo (k) fluoranthene (µg/L)	Chrysene (µg/L)	Dibenz (a,h) anthracene (µg/L)	Indeno (1,2,3-cd) pyrene (µg/L)		
SB-C	2/1/2017	5.5	1-2	>1000	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U		
SB-K	2/1/2017	5.5	1-2	>1000	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U		
			3-4	>1000	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U		
SB-M	2/1/2017	5.5	1-2	>1000	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U		
			3-4	>1000	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U		
SB-Y	2/1/2017	5.5	1-2	>1000	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U		
			3-4	>1000	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U		
SB-AC	7/28/2017	4.0	2-3	>1000	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U		
SB-AD	7/28/2017	4.5	1-2	>1000	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U		
SB-AG	7/28/2017	4.5	1-2	>1000	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U		
SB-AH	7/28/2017	4.0	2-3	>1000	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U		
GCTLs					0.05 ^a	0.2 ^{**}	0.05 ^a	0.5	4.8	0.005 ^a	0.05 ^a		
NADCs					5	20	5	50	480	0.5	5		

Analytical Results reported in µg/L

Qualifiers: U = Result below MDL

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

I = Result between MDL and PQL

NADCs = Natural Attenuation Default Source Concentrations specified in Table V of Chapter 62-777, F.A.C.

MDL = Method Detection Limit

** = As provided in Chapter 62-550, F.A.C.

PQL = Practical Quantitation Limit

a = See the October 12, 2004 "Guidance for the Selection of Analytical Methods and for the Evaluation of Practical Quantitation Limits" to determine how to evaluate data when the CTL is lower than the PQL.

TABLE 2E: SOIL TRPH SPECIATION ANALYTICAL RESULTS

Facility Name: BP Bonita-Oleum Corp

Facility ID#: 36/8520618

Sample										
Location	Date	Collection Interval (fbls)	OVA Response (ppm)	TRPH*	C9-C10 Aromatics	C11-C22 Aromatics	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C18 Aliphatics	C19-C36 Aliphatics
SB-K	2/1/2017	3-4	>1000	1,300 D⁴⁰	2,210	930 D ²⁵	3,290	1,980	440 D ²⁵	140 U, D ²⁵
SB-M	2/1/2017	1-2	>1000	437 D¹⁰	403	445 D ¹⁰	642	492	186 D ¹⁰	54 U, D ¹⁰
SB-Y	2/1/2017	1-2	>1000	359 D¹⁰	739	553 D ¹⁰	973	743	313 D ¹⁰	53 U, D ¹⁰
SB-AC	7/28/2017	2-3	>1000	553 D⁵	441	222 D ⁴ , V	717	420	232 D ⁴	15.2 I, D ⁴
SB-AD	7/28/2017	1-2	>1000	507 D⁵	321	112 D ⁴ , V	728	329	120 D ⁴	19.1 I, D ⁴
Direct Exposure, Residential				460	560	1,800	7,100	1,700	2,900	42,000
Leachability (based on GW)				340	380	1,000	960	31,000	140,000	#

* TRPH speciated using the MADEP Method

Results in bold exceed Soil Cleanup Target Levels (SCTLs)

TRPH = Total Recoverable Petroleum Hydrocarbons

Analytical Results in milligrams per kilogram (mg/kg)

OVA = Organic Vapor Analyzer

fbls = feet below land surface, ppm = parts per million

U = below laboratory detection limit

I = Result > MDL but < PQL

D^x = Sample diluted by a factor of x

V = Analyte found in associated method blank

= Not a health concern for this exposure scenario

Exposure values based upon 62-777 F.A.C. criteria (August 5, 1999) and Technical Report: Development of CTLs for Chapter 62-777 (Table C-9) (February 2005)

TABLE 3: GROUNDWATER ELEVATION SUMMARY

Facility ID#: 36/8520618

Facility Name: BP Bonita-Oleum Corp

WELL NO.	MW-1			MW-2			MW-3			MW-4			MW-5		
DIAMETER (in)	2			2			2			2			2		
WELL DEPTH (ft)	13.1			13.4			12.8			12.6			13.4		
SCREEN INTERVAL (ft)	3.1-13.1			3.4-13.4			2.8-12.8			2.6-12.6			3.4-13.4		
TOC ELEVATION (ft)	10.00			9.57			8.49			8.61			8.62		
DATE	ELEV	DTW	FP												
2/2/1995	5.99	4.01	NM	6.09	3.48	NM	5.98	2.51	MN	5.74	2.87	NM	5.53	3.09	NM
3/20/1995		NM													
2/13/2017	Destroyed														
12/1/2017															

WELL NO.	MW-6			MW-7			MW-8			MW-9D			MW-10		
DIAMETER (in)	2			2			2			2			2		
WELL DEPTH (ft)	11.2			12.7			12.9			24.2			13.0		
SCREEN INTERVAL (ft)	1.2-11.2			2.7-12.7			2.9-12.9			19.2-24.2			3-13		
TOC ELEVATION (ft)	8.89			9.97			9.95			9.79			NM		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
2/2/1995	5.62	3.27	NM	5.92	4.05	NM	5.80	4.15	NM	5.82	3.97	NM		NI	
3/20/1995		NM			NM			NM			--			--	
2/13/2017	Destroyed			Blocked			Destroyed			Destroyed			Destroyed		
12/1/2017															

WELL NO.	MW-11			MW-12			MW-12D			MW-13			MW-14		
DIAMETER (in)	2			2			2			2			2		
WELL DEPTH (ft)	13.0			12.0			25.0			12.0			12.0		
SCREEN INTERVAL (ft)	3-13			2-12			20-25			2-12			2-12		
TOC ELEVATION (ft)	NM			10.00			10.19			9.87			10.10		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
2/2/1995		NI			NI			NI			NI			NI	
3/20/1995		NM			NI			NI			NI			NI	
2/13/2017	Destroyed			4.62	5.38	0.00		NI		4.73	5.14	0.00	4.78	5.32	0.00
8/14/2017				6.43	3.57	0.00		NI		6.59	3.28	0.00	6.53	3.57	0.00
12/1/2017					NM		5.92	4.27	0.00		NM			NM	

TABLE 3: GROUNDWATER ELEVATION SUMMARY

Facility ID#: 36/8520618

Facility Name: BP Bonita-Oleum Corp

WELL NO.	MW-15			MW-15D			MW-16			MW-16D			MW-17		
DIAMETER (in)	2			2			2			2			2		
WELL DEPTH (ft)	12.0			25.0			12.0			30.0			12.0		
SCREEN INTERVAL (ft)	2-12			20-25			2-12			25-30			2-12		
TOC ELEVATION (ft)	10.66			10.14			9.40			9.52			9.70		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
2/2/1995		NI			NI			NI			NI			NI	
3/20/1995		NI			NI			NI			NI			NI	
2/13/2017	4.66	6.00	0.00		NI			NI			NI			NI	
8/14/2017	6.46	4.20	0.00		NI		6.16	3.24	0.00		NI		6.38	3.32	0.00
12/1/2017		NM		5.45	4.69	0.00		NM		5.25	4.27	0.00		NM	

WELL NO.	MW-18			MW-19			MW-20			MW-21			MW-22		
DIAMETER (in)	2			2			2			2			2		
WELL DEPTH (ft)	12.0			12.0			12.0			12.0			12.0		
SCREEN INTERVAL (ft)	2-12			2-12			2-12			2-12			2-12		
TOC ELEVATION (ft)	9.21			10.09			10.21			9.81			9.93		
DATE	ELEV	DTW	FP												
2/2/1995		NI													
3/20/1995		NI													
2/13/2017		NI													
8/14/2017	6.28	2.93	0.00	6.40	3.69	0.00	6.77	3.44	0.00	6.68	3.13	0.00		NI	
12/1/2017		NM			NM			NM			NM		5.46	4.47	0.00

ELEV = Water level elevation in feet (ft)

NM = Not Measured

DTW = Depth to water in feet (ft)

NI = Not Installed

FP = Free product thickness in feet (ft)

TOC = Top-of-casing

All TOC elevations surveyed relative to an arbitrary datum

TABLE 4A: MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility ID#: 36/8520618

Facility Name: BP Bonita-Oleum Corp

See notes at end of table.

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	EDB	EDC	Chloro-benzene	1,4-Di-chloro-benzene	Total Lead
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-1	2/2/1995	1 U	1 U	1 U	1 U	NCD	5 U	0.02 U	--	13.9	6.5	5.0
MW-2	2/2/1995	1 U	1 U	1 U	1 U	NCD	5 U	0.02 U	--	1 U	1 U	26.0
MW-3	2/2/1995	1 U	1 U	1 U	1 U	NCD	5 U	0.02 U	--	1 U	1 U	24.0
MW-4	2/2/1995	1 U	1 U	1 U	8.5	8.5	5 U	0.02 U	--	1 U	1 U	6.6
MW-5	2/2/1995	1,060	26	360	445	1,891	775	0.02 U	--	10 U	10 U	8.2
MW-6	2/2/1995	135	63	16	71	285	1,650	0.02 U	--	10 U	10 U	3 U
MW-7	2/2/1995	870	1,630	410	2,450	5,360	6,800	0.02 U	--	100 U	100 U	22.0
MW-8	2/2/1995	6,620	4,270	1,080	4,830	16,800	58,000	0.02 U	--	100 U	100 U	23.0
MW-9D	2/2/1995	15.7	75.1	16.7	102.2	209.7	11.4	0.02 U	--	1 U	1 U	17.0
	3/20/1995	6.7	1 U	3.6	3.0	13.3	8.0	--	--	--	--	--
MW-10	3/20/1995	1 U	1 U	1 U	1 U	NCD	5 U	0.02 U	--	--	--	6.6
MW-11	3/20/1995	1,440	77.0	32.0	348	1,897	8,650	0.02 U	--	--	--	5.1
MW-12	2/13/2017	1,250 D ⁵⁰⁰	704 D ⁵⁰⁰	602 D ⁵⁰⁰	1,850 D ⁵⁰⁰	4,406	98.2	0.0095 U	0.31 U	--	--	1.1 U
MW-12D	12/1/2017	0.31 U	0.30 U	0.36 U	0.72 U	NCD	0.23 U	--	--	--	--	--
MW-13	2/13/2017	389 D ⁵⁰	71.7	283 D ⁵⁰	239	982	2.3	0.0095 U	0.31 U	--	--	1.1 U
MW-14	2/13/2017	0.31 U	0.30 U	0.36 U	0.72 U	NCD	0.23 U	0.0095 U	0.31 U	--	--	1.1 U
MW-15	2/13/2017	1,660 D ²⁰	9.1	385 D ²⁰	447 D ²⁰	2,501	15.3	--	--	--	--	--
MW-15D	12/1/2017	0.31 U	0.30 U	0.36 U	0.72 U	NCD	0.23 U	--	--	--	--	--
MW-16	8/14/2017	0.31 U	1.2	0.36 U	0.72 U	1.2	0.23 U	--	--	--	--	--
MW-16D	12/1/2017	0.31 U	0.30 U	0.36 U	0.72 U	NCD	0.23 U	--	--	--	--	--
MW-17	8/14/2017	0.31 U	1.1	0.36 U	0.72 U	1.1	0.23 U	--	--	--	--	--
MW-18	8/14/2017	0.31 U	1.5	0.36 U	0.72 U	1.5	0.23 U	--	--	--	--	--
MW-19	8/14/2017	0.31 U	0.88	0.36 U	0.72 U	0.88	0.23 U	--	--	--	--	--
MW-20	8/14/2017	0.31 U	1.3	0.36 U	0.72 U	1.3	0.23 U	--	--	--	--	--
MW-21	8/14/2017	0.31 U	1.2	0.36 U	0.72 U	1.2	0.23 U	--	--	--	--	--
MW-22	12/1/2017	135 D ²	7.6 D ²	77.1 D ²	241 D ²	460.7	8.4 D ²	--	--	--	--	--
GCTLs		1**	40**	30**	20**	NA	20	0.02**	3**	100	75	15**
NADCs		100	400	300	200	NA	200	2	300	1000	750	150

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

µg/L = micrograms per liter

NCD = no compounds detected

-- = Sample not analyzed for constituent or not reported

** = As provided in Chapter 62-550, F.A.C.

Concentrations in bold are above Groundwater Cleanup Target Levels (GCTLs)

Qualifiers: U = Result below MDL

I = Result between MDL and PQL

D^x = Sample diluted by a factor of x

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

TABLE 4B: MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility ID#: 36/8520618

Facility Name: BP Bonita-Oleum Corp

See notes at end of table.

Sample		TRPHs	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Phenanthrene	Pyrene
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-1	2/2/1995	1000 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-2	2/2/1995	1000 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-3	2/2/1995	1000 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-4	2/2/1995	1000 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-5	2/2/1995	1000 U	12	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-6	2/2/1995	1,400	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-7	2/2/1995	68,000	195	49	125	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-8	2/2/1995	65,000	215	38	93	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-9D	2/2/1995	1000 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
	3/20/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	3/20/1995	1000 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-11	3/20/1995	1000 U	24	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
MW-12	2/13/2017	5,100 D⁵	115 D¹⁰	13.6	24.7	0.31 U	0.31 U	0.19 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.19 U	0.19 U	0.031 U	0.19 U	0.19 U
MW-12D	12/1/2017	223 I	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.20 U	0.20 U	0.032 U	0.20 U	0.20 U
MW-13	2/13/2017	1,020	38.1	7.3	13.4	0.33 U	0.33 U	0.21 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.21 U	0.21 U	0.033 U	0.21 U	0.21 U	
MW-14	2/13/2017	397	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.20 U	0.20 U	0.032 U	0.20 U	0.20 U
MW-15	2/13/2017	4,120 D⁵	347 D²⁰	30.4	59.6 D²⁰	0.32 U	0.32 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.20 U	0.20 U	0.032 U	0.20 U	0.20 U
MW-15D	12/1/2017	204 I	0.38 I	0.36 I	0.32 U	0.32 U	0.32 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.20 U	0.20 U	0.032 U	0.20 U	0.20 U
MW-16	8/14/2017	140 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.20 U	0.20 U	0.032 U	0.20 U	0.20 U
MW-16D	12/1/2017	208 I	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.20 U	0.20 U	0.032 U	0.20 U	0.20 U
MW-17	8/14/2017	140 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.21 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.21 U	0.21 U	0.033 U	0.21 U	0.21 U
MW-18	8/14/2017	140 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.20 U	0.20 U	0.032 U	0.20 U	0.20 U
MW-19	8/14/2017	247	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.21 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.21 U	0.21 U	0.033 U	0.21 U	0.21 U
MW-20	8/14/2017	272	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.20 U	0.20 U	0.032 U	0.20 U	0.20 U
MW-21	8/14/2017	235 I	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.20 U	0.20 U	0.032 U	0.20 U	0.20 U
MW-22	12/1/2017	406	14.2 V	1.5	2.6	0.32 U	0.32 U	0.20 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.20 U	0.20 U	0.032 U	0.20 U	0.20 U
GCTLs		5,000	14	28	28	20	210	2,100	0.05 ^a	0.2 ^{**}	0.05 ^a	210	0.5	4.8	0.005 ^a	280	280	0.05 ^a	210	210
NADCs		50,000	140	280	280	200	2,100	21,000	5	20	5	2,100	50	480	0.5	2,800	2,800	5	2,100	2,100

TRPHs = Total Recoverable Petroleum Hydrocarbons

µg/L = micrograms per liter

-- = Sample not analyzed for constituent or not reported

** = As provided in Chapter 62-550, F.A.C.

Concentrations in bold are above Groundwater Cleanup Target Levels (GCTLs)

a = See the October 12, 2004 "Guidance for the Selection of Analytical Methods and for the Evaluation of Practical Quantitation Limits" to determine how to evaluate data when the CTL is lower than the PQL.

Qualifiers: U = Result below MDL

I = Result between MDL and PQL

D^x = Sample diluted by a factor of x

V = Analyte found in associated method blank

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

TABLE 5 Site Assessment Summary Worksheet

FDEP FAC ID #: 36/8520618
 Does Site Qualify for LTNAM: _____

Site Name: BP Bonita-Oleum Corp

Dominant Lithology Vadose Zone
 First Lithology (USCS): SP
 Second Lithology (USCS): SW

Dominant Lithology Saturated Zone
 First Lithology (USCS): SP
 Second Lithology (USCS): CL

Average Depth to Water: 0' - 5'
 Groundwater Flow Direction: Northwest

Recommended Technology for SRCO: Air Sparging
 Combined Technology: Soil Vapor Extraction

Consultant SRCO Cost Estimate: \$400,000
 Consultant NFAC Cost Estimate: \$250,000

GW Contaminants one per constituent	≤ GCTLs	≤ NADC	> NADC	Not Analyzed
Benzene			X	
Ethylbenzene			X	
Toluene			X	
Total Xylenes			X	
MTBE		X		
Naphthalene			X	
1-Methylnaphthalene		X		
2-Methylnaphthalene		X		
TRPHs		X		
EDB	X			
As				X
Pb	X			
Other	X			

Plume Characteristics	Groundwater	Soil
Shrinking or Stable	No	
On-site only	Yes	Yes
Plume <1/4 acre	No	Yes
Exclusion Zone Only	No	No
In FDOT ROW only	No	No
On State-Owned Land Only	No	No
Organoleptic Exceedence only (< HB CTLs)	No	
DE Soil Exceedences above 2'		Yes
DE Soil Exceedences from 2' to 10'		Yes
DE Soil Exceedences below 10'		N/A
Free Product	No	
Site Qualifies for LSSI NFA (any score)	No	No

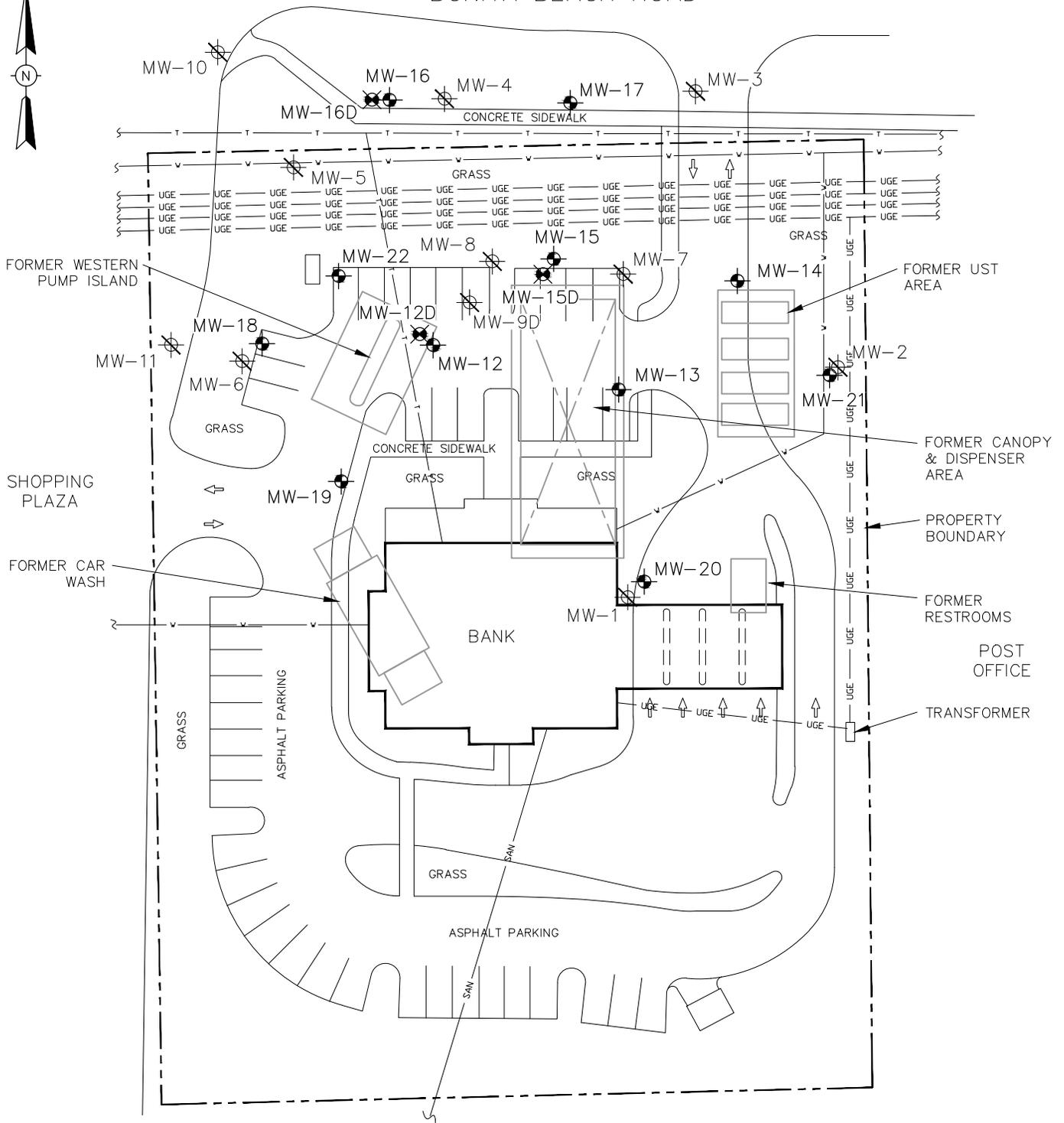
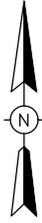
Soil Contaminants (select one unless Leachability & Direct Exposure CTLs exceeded)	No Soil Exceedences*	Exceeds Leachability	Exceeds Direct Exposure	Not Analyzed
Benzene		X	X	
Ethylbenzene		X		
Toluene		X		
Total Xylenes		X		
MTBE	X			
Naphthalene		X		
1-Methylnaphthalene		X		
2-Methylnaphthalene		X		
Other PAHs	X			
TRPHs		X	X	
As				X
Pb				X
Other				X

* Below direct exposure and leachability (or alternative SCTLs established through SPLP or fractionation)

APPENDIX B

Figures

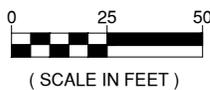
BONITA BEACH ROAD



LEGEND

- SHALLOW MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- DESTROYED MONITORING WELL LOCATION
- UNDERGROUND WATER / FIRE LINE
- UNDERGROUND TELECOMMUNICATION LINE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND ELECTRIC LINE

RESIDENTIAL



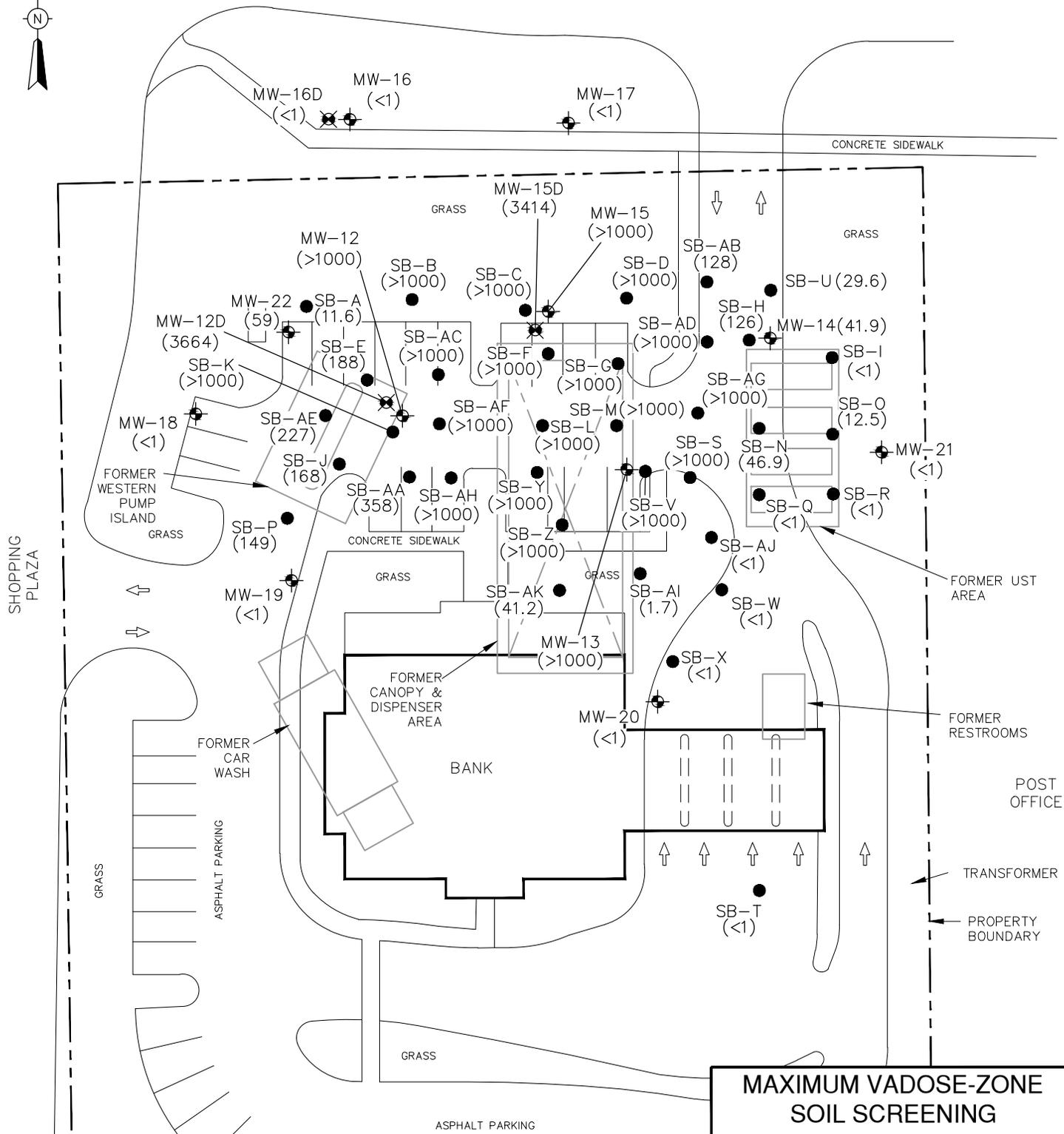
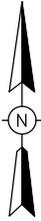
SITE PLAN

Former BP Bonita-Oleum Corp.
 FDEP FAC. ID NO.: 36/8520618
 9021 Bonita Beach Road, Bonita Springs, Florida



Figure 1B

BONITA BEACH ROAD



LEGEND

- SHALLOW MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- SOIL BORING LOCATION
- (>1000) MAXIMUM VADOSE ZONE OVA READING (ppm)
- OVA ORGANIC VAPOR ANALYZER
- ppm PARTS PER MILLION



MAXIMUM VADOSE-ZONE SOIL SCREENING RESULTS (JANUARY, FEBRUARY & JULY 2017)

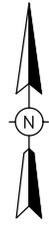
Former BP Bonita-Oleum Corp.
FDEP FAC. ID NO.: 36/8520618
9021 Bonita Beach Road, Bonita Springs, Florida



Figure 3A

12/17 FIG3A

BONITA BEACH ROAD



8/14/2017	
B	0.31 U
T	1.2
E	0.36 U
X	0.72 U
M	0.23 U
N	0.32 U
1-M	0.32 U
2-M	0.32 U
TR	140 U

8/14/2017	
B	0.31 U
T	1.1
E	0.36 U
X	0.72 U
M	0.23 U
N	0.33 U
1-M	0.33 U
2-M	0.33 U
TR	140 U

2/13/2017	
B	0.31 U
T	0.30 U
E	0.36 U
X	0.72 U
M	0.23 U
N	0.32 U
1-M	0.32 U
2-M	0.32 U
TR	397

12/1/2017	
B	135
T	7.6
E	77.1
X	241
M	8.4
N	14.2
1-M	1.5
2-M	2.6
TR	406

8/14/2017	
B	0.31 U
T	1.5
E	0.36 U
X	0.72 U
M	0.23 U
N	0.32 U
1-M	0.32 U
2-M	0.32 U
TR	140 U

8/14/2017	
B	0.31 U
T	0.88
E	0.36 U
X	0.72 U
M	0.23 U
N	0.33 U
1-M	0.33 U
2-M	0.33 U
TR	247

2/13/2017	
B	1250
T	704
E	602
X	1850
M	98.2
N	115
1-M	13.6
2-M	24.7
TR	5100

8/14/2017	
B	0.31 U
T	1.3
E	0.36 U
X	0.72 U
M	0.23 U
N	0.32 U
1-M	0.32 U
2-M	0.32 U
TR	272

2/13/2017	
B	389
T	71.7
E	283
X	239
M	2.3
N	38.1
1-M	7.3
2-M	13.4
TR	1020

2/13/2017	
B	1660
T	9.1
E	385
X	447
M	15.3
N	347
1-M	30.4
2-M	59.6
TR	4120

MW-16 MW-17
CONCRETE SIDEWALK

MW-22 MW-15D MW-15
FORMER WESTERN PUMP ISLAND
MW-12D MW-12
MW-18
GRASS

MW-14
FORMER UST AREA
MW-21
FORMER CANOPY & DISPENSER AREA

MW-19
CONCRETE SIDEWALK
GRASS
MW-13
FORMER RESTROOMS
MW-20

FORMER CAR WASH
ASPHALT PARKING
BANK
ESTIMATED EXTENT OF SHALLOW DISSOLVED HYDROCARBON IMPACTS >GCTLs

GRASS
ASPHALT PARKING
TRANSFORMER

PROPERTY BOUNDARY
RESIDENTIAL

LEGEND

- MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- B BENZENE (ug/L)
- T TOLUENE (ug/L)
- E ETHYLBENZENE (ug/L)
- X TOTAL XYLENES (ug/L)
- M MTBE (ug/L)
- N NAPHTHALENE (ug/L)
- 1-M 1-METHYLNAPHTHALENE (ug/L)
- 2-M 2-METHYLNAPHTHALENE (ug/L)
- TR TRPH (ug/L)
- U RESULT BELOW DETECTION LIMIT
- I MDL < RESULTS < REPORTING LIMIT
- BOLD** CONCENTRATIONS EXCEED LIMITS
- GCTLs GROUNDWATER CLEANUP TARGET LEVELS



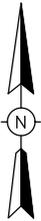
SHALLOW DISSOLVED HYDROCARBON MAP
(FEBRUARY 13 & DECEMBER 1, 2017)

Former BP Bonita-Oleum Corp.
FDEP FAC. ID NO.: 36/8520618
9021 Bonita Beach Road, Bonita Springs, Florida

Earth Systems **Figure 4A**

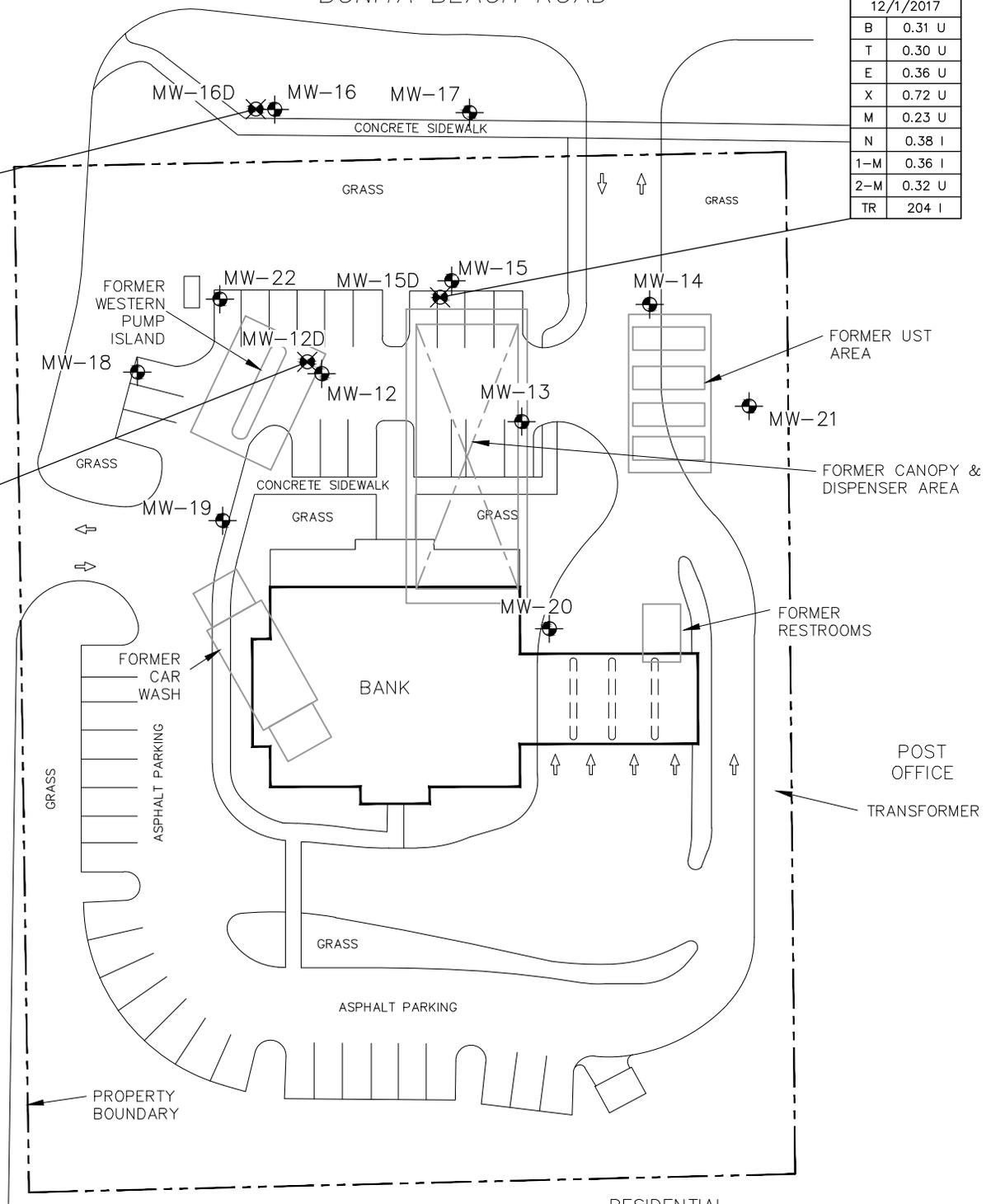
BONITA BEACH ROAD

12/1/2017	
B	0.31 U
T	0.30 U
E	0.36 U
X	0.72 U
M	0.23 U
N	0.38 I
1-M	0.36 I
2-M	0.32 U
TR	204 I



12/1/2017	
B	0.31 U
T	0.30 U
E	0.36 U
X	0.72 U
M	0.23 U
N	0.32 U
1-M	0.32 U
2-M	0.32 U
TR	208 I

12/1/2017	
B	0.31 U
T	0.30 U
E	0.36 U
X	0.72 U
M	0.23 U
N	0.32 U
1-M	0.32 U
2-M	0.32 U
TR	223 I



LEGEND

- MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- B BENZENE (ug/L)
- T TOLUENE (ug/L)
- E ETHYLBENZENE (ug/L)
- X TOTAL XYLENES (ug/L)
- M MTBE (ug/L)
- N NAPHTHALENE (ug/L)
- 1-M 1-METHYLNAPHTHALENE (ug/L)
- 2-M 2-METHYLNAPHTHALENE (ug/L)
- TR TRPH (ug/L)
- U RESULT BELOW DETECTION LIMIT
- I MDL < RESULTS < REPORTING LIMIT



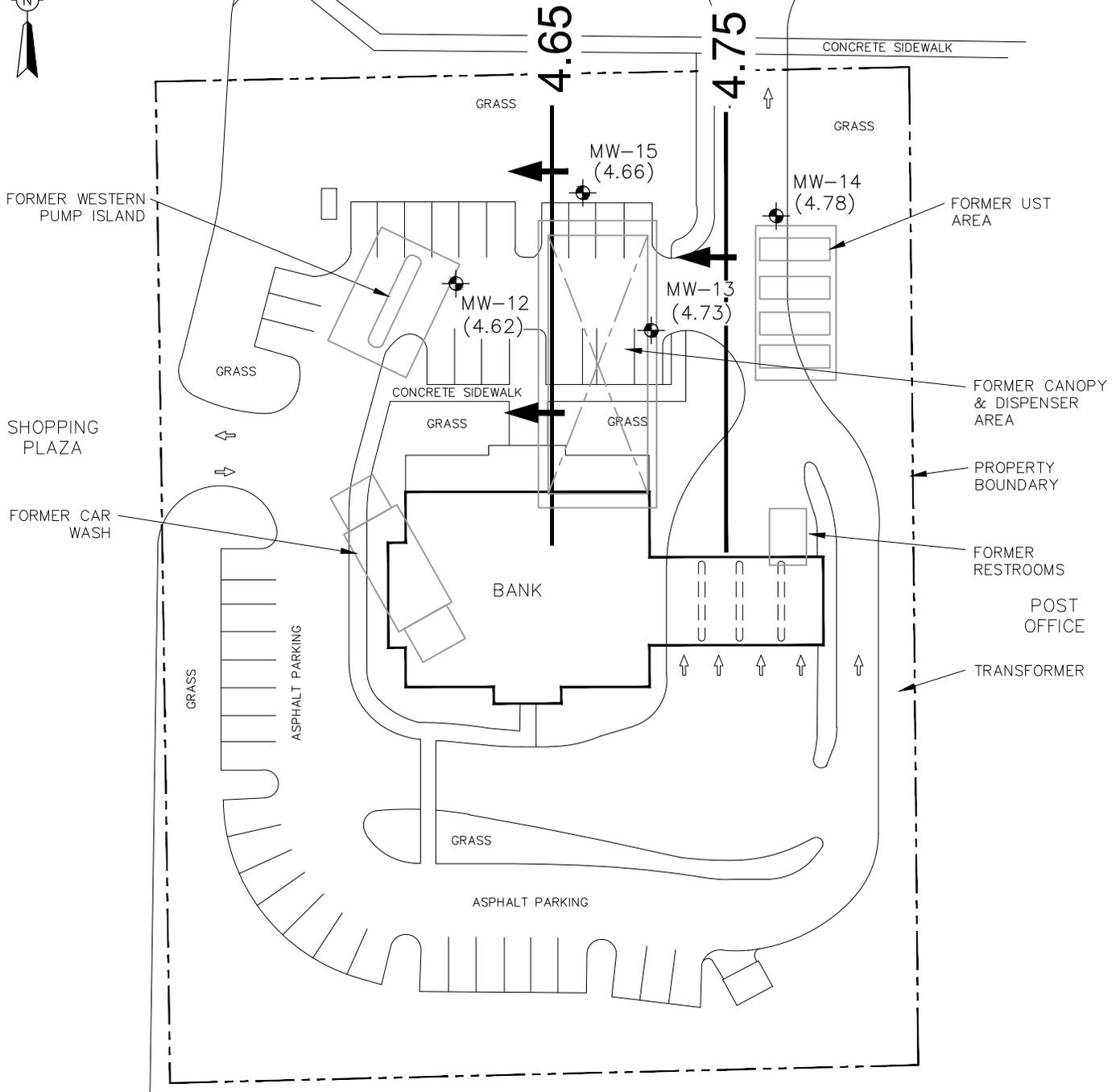
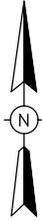
**DEEP DISSOLVED
HYDROCARBON MAP
(DECEMBER 1, 2017)**

Former BP Bonita-Oleum Corp.
FDEP FAC. ID NO.: 36/8520618
9021 Bonita Beach Road, Bonita Springs, Florida

Figure 4B

12/17 FIG4B

BONITA BEACH ROAD



RESIDENTIAL

**SHALLOW GROUNDWATER
ELEVATION
CONTOUR MAP
(FEBRUARY 13, 2017)**

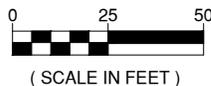
Former BP Bonita-Oleum Corp.
FDEP FAC. ID NO.: 36/8520618
9021 Bonita Beach Road, Bonita Springs, Florida



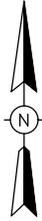
Figure 5A

LEGEND

-  SHALLOW MONITORING WELL LOCATION
-  (4.78) GROUNDWATER ELEVATION (FT.)
-  4.75 — GROUNDWATER CONTOUR (FT.)
-  ← DIRECTION OF GROUNDWATER FLOW



BONITA BEACH ROAD



MW-16
(6.16)

MW-17
(6.38)

CONCRETE SIDEWALK

GRASS

GRASS

MW-15
(6.46)

MW-14
(6.53)

FORMER UST AREA

FORMER WESTERN PUMP ISLAND

MW-18
(6.28)

MW-12
(6.43)

MW-13
(6.59)

MW-21
(6.68)

FORMER CANOPY & DISPENSER AREA

SHOPPING PLAZA

MW-19
(6.40)

CONCRETE SIDEWALK

GRASS

GRASS

PROPERTY BOUNDARY

6.30

FORMER CAR WASH

MW-20
(6.77)

FORMER RESTROOMS

BANK

POST OFFICE

GRASS

ASPHALT PARKING

6.50

6.70

TRANSFORMER

GRASS

ASPHALT PARKING

RESIDENTIAL

SHALLOW GROUNDWATER ELEVATION CONTOUR MAP (AUGUST 14, 2017)

Former BP Bonita-Oleum Corp.
FDEP FAC. ID NO.: 36/8520618
9021 Bonita Beach Road, Bonita Springs, Florida



Figure 5B

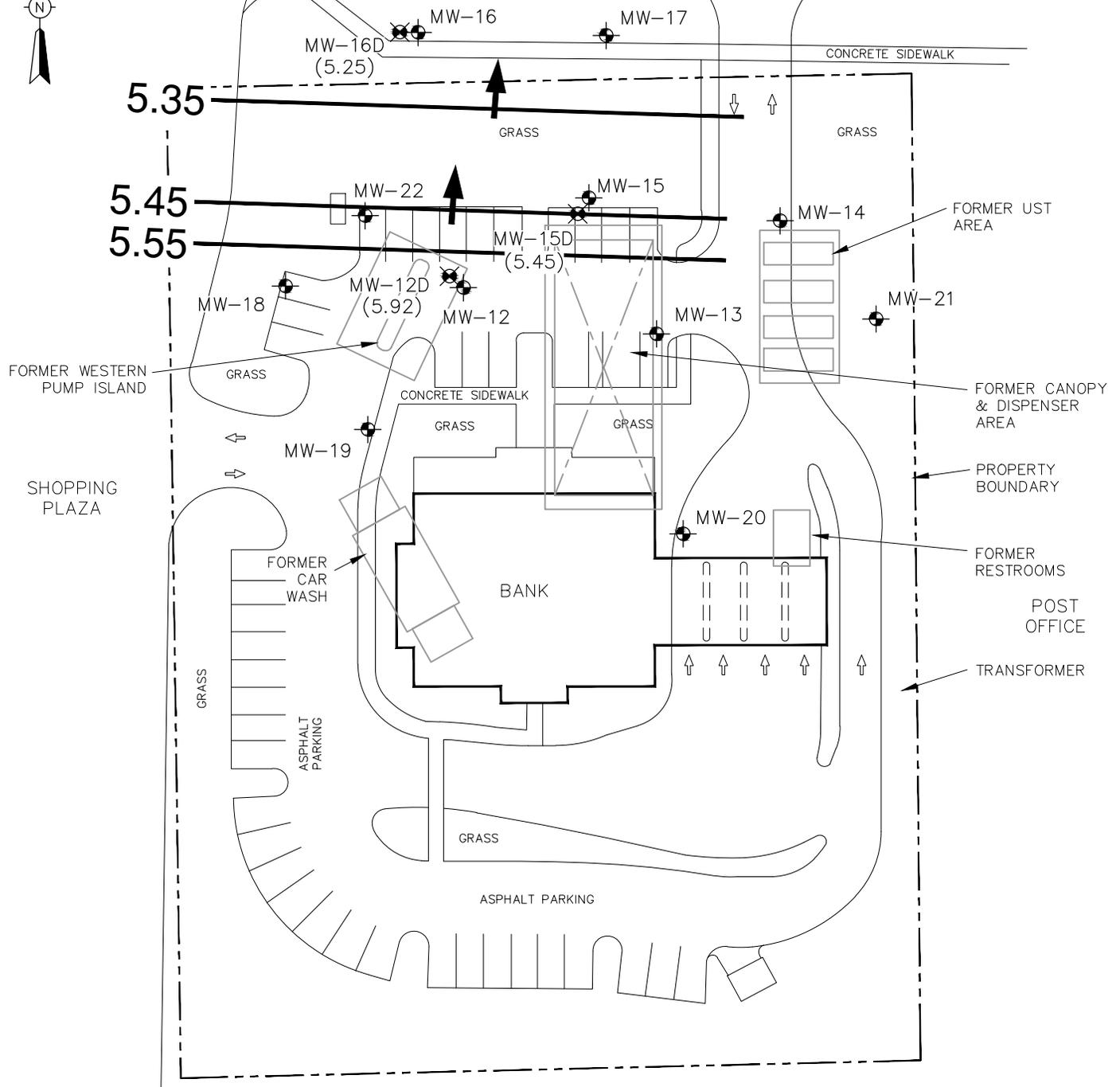
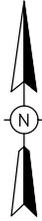
LEGEND

- SHALLOW MONITORING WELL LOCATION
- (6.77)

 GROUNDWATER ELEVATION (FT.)
- 6.70 GROUNDWATER CONTOUR (FT.)
- DIRECTION OF GROUNDWATER FLOW



BONITA BEACH ROAD



RESIDENTIAL

LEGEND

- SHALLOW MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- (6.77) GROUNDWATER ELEVATION (FT.)
- 6.70 — GROUNDWATER CONTOUR (FT.)
- DIRECTION OF GROUNDWATER FLOW



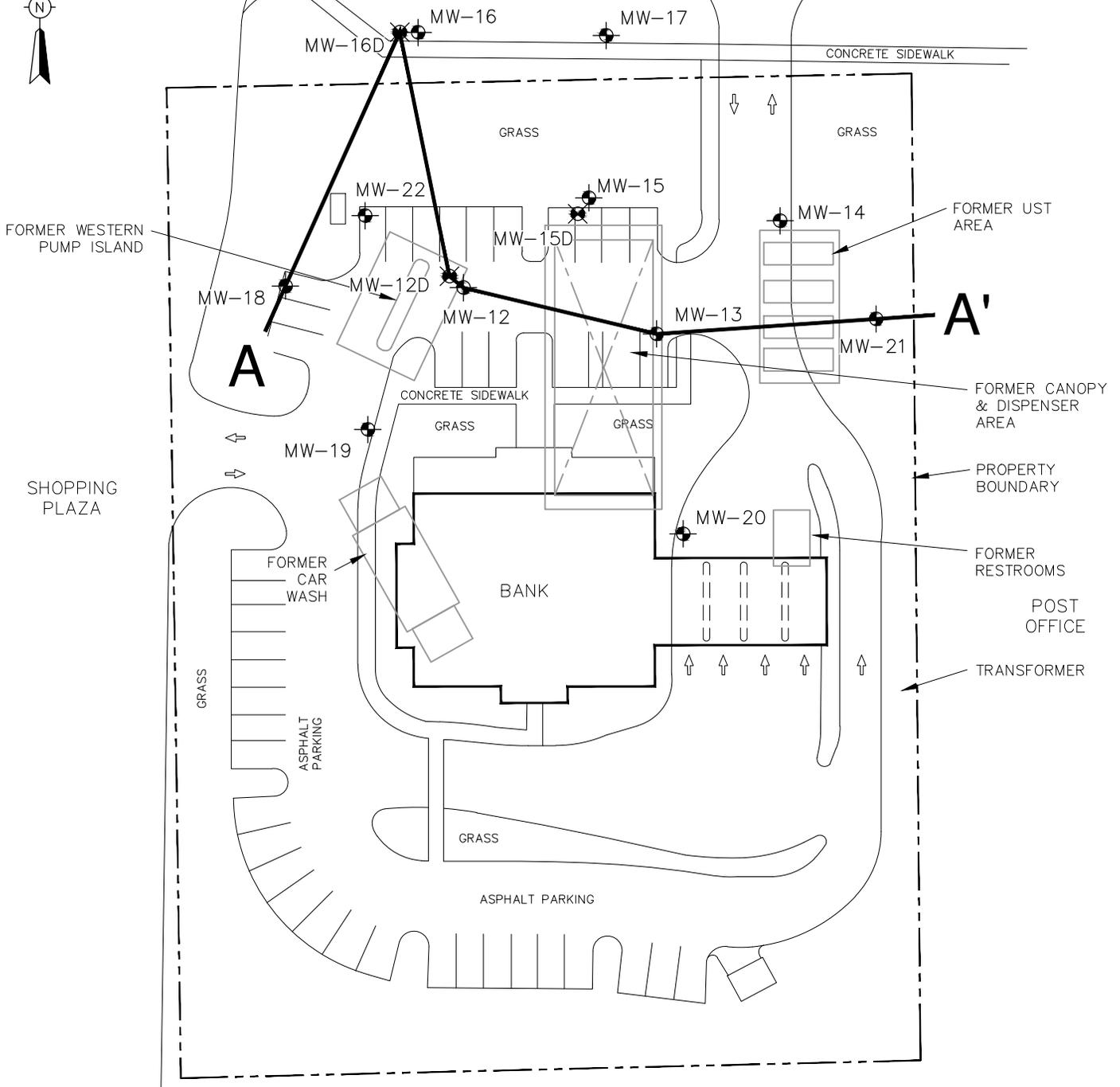
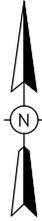
**DEEP GROUNDWATER
ELEVATION
CONTOUR MAP
(DECEMBER 1, 2017)**

Former BP Bonita-Oleum Corp.
FDEP FAC. ID NO.: 36/8520618
9021 Bonita Beach Road, Bonita Springs, Florida



Figure 5C

BONITA BEACH ROAD



LEGEND

- SHALLOW MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION

A A'

 LITHOLOGIC CROSS SECTION
 (SEE FIG 6B FOR DETAILS)

RESIDENTIAL

**LITHOLOGIC
PLAN VIEW**

Former BP Bonita-Oleum Corp.
 FDEP FAC. ID NO.: 36/8520618
 9021 Bonita Beach Road, Bonita Springs, Florida



Figure 6A

APPENDIX C

Storage Tank Facility Search

Site Closure Assessment

Discharge Reporting Forms

Eligibility Letter

Potable Well Survey

Receptor Survey and Exposure Pathway Identification Form

Contamination Assessment Report & Review Comments

Fire Department Complaint Report

Florida Department of Environmental Protection
Bureau of Petroleum Storage Systems
Storage Tank/Contaminated Facility
Name & Address Search

Facility ID#: 8520618

Name: Bp-Bonita-Oleum Corp
9021 Bonita Beach Rd
Bonita Springs, FL 33923- 4213

Contact: Oleum Corp**Phone:** 813-992-4941**District:** SD**County:** 36 - Lee**Type:** A-Retail Station**Status:** Closed**Latitude:** 26:19:48.3326**Longitude:** 81:48:09.1978**LL Method:** DPHO-Unverified**Account Owner:** Oleum Corp

Tank #	Size	Content	Installed	Placement	Status	Construction Piping Monitoring
1	10152	Leaded Gas	07/01/1976	UNDER	Removed from Site	
1R1	10000	Unleaded Gas	11/01/1988	UNDER	Removed from Site	
2	12000	Unleaded Gas	07/01/1980	UNDER	Removed from Site	
2R1	10000	Unleaded Gas	11/01/1988	UNDER	Removed from Site	
3	10152	Unleaded Gas	07/01/1976	UNDER	Removed from Site	
3R1	10000	Leaded Gas	11/01/1988	UNDER	Removed from Site	
4	10152	Vehicular Diesel	07/01/1976	UNDER	Removed from Site	
4R1	10000	Vehicular Diesel	11/01/1988	UNDER	Removed from Site	

*****Note:**

**Construction, Piping, and Monitoring Info not shown for CLOSED tanks
(Status A: Closed in Place, B: Removed from the site).**



BOARD OF COUNTY COMMISSIONERS

P.O. Box 398
Fort Myers, Florida 33902-0398
(813) 335-2111

813/335-2141

Writer's Direct Dial Number

November 21, 1994

John E. Manning
District One

Douglas R. St. Cerny
District Two

Ray Judah
District Three

Andrew W. Coy
District Four

John E. Albion
District Five

Donald D. Stilwell
County Administrator

James G. Yaeger
County Attorney

Diana M. Parker
County Hearing Examiner

Mr. Frank Holland
Oleum Corporation
P.O. Box 413038
Naples, FL 33941-3038

RE: BP - Bonita - Oleum Corp.
DEP ID#: 368520618

Dear Mr. Holland:

For your records, I have enclosed a copy of the recent closure compliance inspection conducted at your facility on November 10, 1994.

Although a Closure Assessment Report is not required for the closure of these tanks, this office does require a copy of the disposal manifests for any residual fuel, contaminated water and sludges as well as the tanks, to document proper closure. It is also unknown if the piping was capped and/or removed.

Pursuant to FAC Rule 62-761.800(2) and (3), the required information requested above is due in this office by January 10, 1995. If you have any questions regarding this matter, please contact me at the above number.

Sincerely,

DEPARTMENT OF COMMUNITY DEVELOPMENT
Division of Natural Resources Management

Bill W. Johnson
Supervisor
Storage Tanks Program

BWJ:alc
WDocsc8520618

Enclosure



Entered into
OCULUS
South District

RECEIVED

JAN 10 1995

LEE COUNTY DIV. OF
NATURAL RESOURCES MGMT.

**SITE CLOSURE ASSESSMENT
BONITA B.P. - OLEUM CORPORATION
9021 BONITA BEACH ROAD
BONITA SPRINGS, FLORIDA**

FDER FACILITY IDENTIFICATION NUMBER 368520618

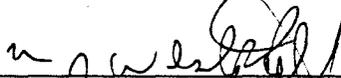
Prepared for:

Oleum Corporation
P.O. Box 413038
Naples, Florida 33941-3038

By:

Coastal Resource Management, Inc.
2029 Bayside Parkway
Fort Myers, Florida 33901
(813) 334-4435

January, 1995
CRM File No. E94-176



Michael J. Westphal
Geologist #340

Coastal Resource Management, Inc.



2029 Bayside Parkway
Fort Myers, Florida 33901-3101

Phone: (813) 334-4435
Fax: (813) 334-6932

January 6, 1995

Mr. Steven Hooper
Lee County Division of Natural Resources Management
P. O. Box 398
Fort Myers, Florida 33902-0398

RE: Site Closure Assessment and Remedial
Action Report
Bonita B.P. - Oleum Corporation
FDER Facility Number: 368520618
CRM File Number: E94-176

Dear Mr. Hooper:

Enclosed please find the referenced report which describes the removal of UST's, and associated dispenser islands and piping.

Should you have any comments or questions concerning this matter, please do not hesitate to contact me.

Sincerely,

COASTAL RESOURCE MANAGEMENT, INC.

A handwritten signature in black ink, appearing to read 'Michael J. Westphall', is written over the typed name.

Michael J. Westphall, P.G.
Registration Number 340
President

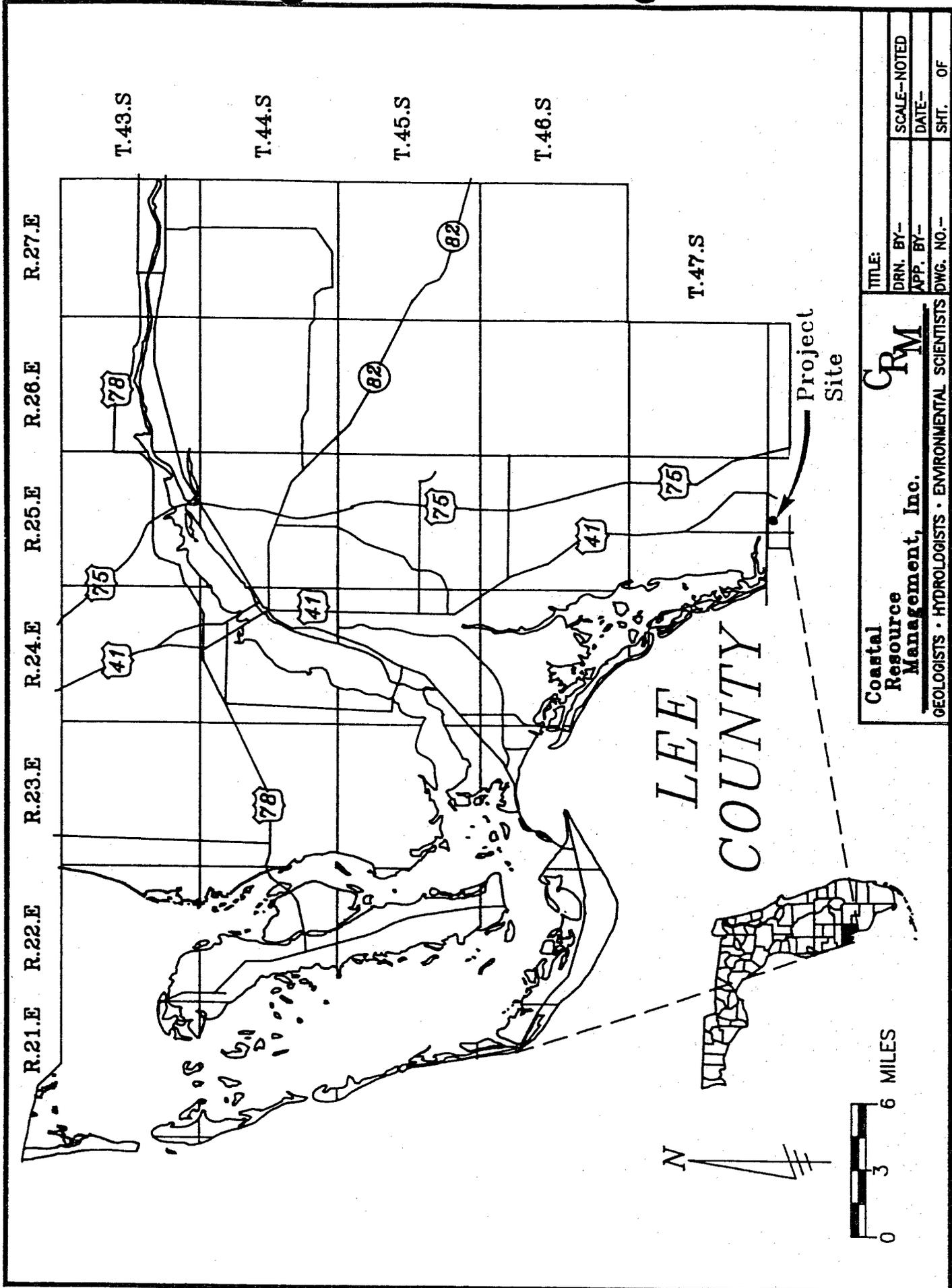
DBH:smd

Enclosure

I. INTRODUCTION

Four (4) underground storage tanks (UST's) have been removed from the Bonita B.P. facility, located at 9021 Bonita Beach Road, Bonita Springs, Florida (Figure 1). Each of the four (4) UST's had a capacity of 10,000 gallons: three (3) of the UST's were reported to have contained gasoline, and one (1) UST was reported to have contained diesel fuel. The project facility is registered with the Florida Department of Environmental Protection (FDEP) under the name B.P. Bonita - Oleum Corporation as facility identification number 368520618.

West Coast Mechanical, Inc. (WCM), was contracted to remove the UST's; Coastal Resource Management, Inc. (CRM) was contracted to supervise the removal of the UST's, and to assess for potential soil and groundwater contamination associated with the UST's and product distribution system. The following sections describe the work scope completed at the site, and the methodology employed to obtain data.



Coastal Resource Management, Inc.		CRM		TITLE:	
GEOLOGISTS • HYDROLOGISTS • ENVIRONMENTAL SCIENTISTS		DRN. BY-		SCALE-NOTED	
		APP. BY-		DATE-	
		DWG. NO.-		SHT. OF	

FIGURE 1. MAP SHOWING THE REGIONAL LOCATION OF THE PROJECT SITE.

II. REMOVAL OF THE FUEL STORAGE SYSTEM AND CONTAMINATED SOIL

A. Introduction

WCM, a licensed pollutant storage system contractor, removed and disposed of the UST's at the Bonita B.P. site. The UST's were removed on November 9, 1994, with the use of a trackhoe (refer to Appendix A for tank disposal manifests). Mr. David Hire of CRM and Mr. Paul Demack of the Lee County Division of Natural Resources Management were present on-site during the removal of the UST's. Prior to removal of the UST's, WCM pumped all fluids from the UST's and transported the fluids to a holding tank at the WCM facility. Fluids were removed from the WCM facility by Howco Environmental Services for proper treatment and/or disposal. A manifest showing the receipt of the liquid is provided as Appendix B. The petroleum storage system at the project facility consisted of one (1) tank farm area, three (3) dispenser islands and associated piping (refer to Figure 2 for the location of pertinent features). Dispenser islands and product piping were excavated on November 16, 17, and 18, 1994.

Soils within the excavated areas were quantitatively assessed for the presence of volatile organic hydrocarbons with the use of an organic vapor analyzer (OVA). The OVA used was a Foxboro Model 128, which had been pre-calibrated by the use of methane span gas in concentrations of 95 ppm and 500 ppm. Clean sample jars were half-filled with soil and covered tightly with aluminum foil; the remaining air space (head space) was tested for volatile organic hydrocarbon concentration with the use of an unfiltered probe. The soil samples were also tested using a filtered probe (activated carbon) to account for the presence of naturally-occurring methane in the soil.

B. Excavation of the UST's

On November 9, 1994, WCM removed four (4) UST's from the Bonita B.P. facility. Three (3) of the UST's were reported to have been used to store gasoline and one (1) of the UST's was reported to have been used to store diesel fuel; all four (4) UST's had capacities of 10,000 gallons. The UST's were manufactured by Buffalo Tank and were

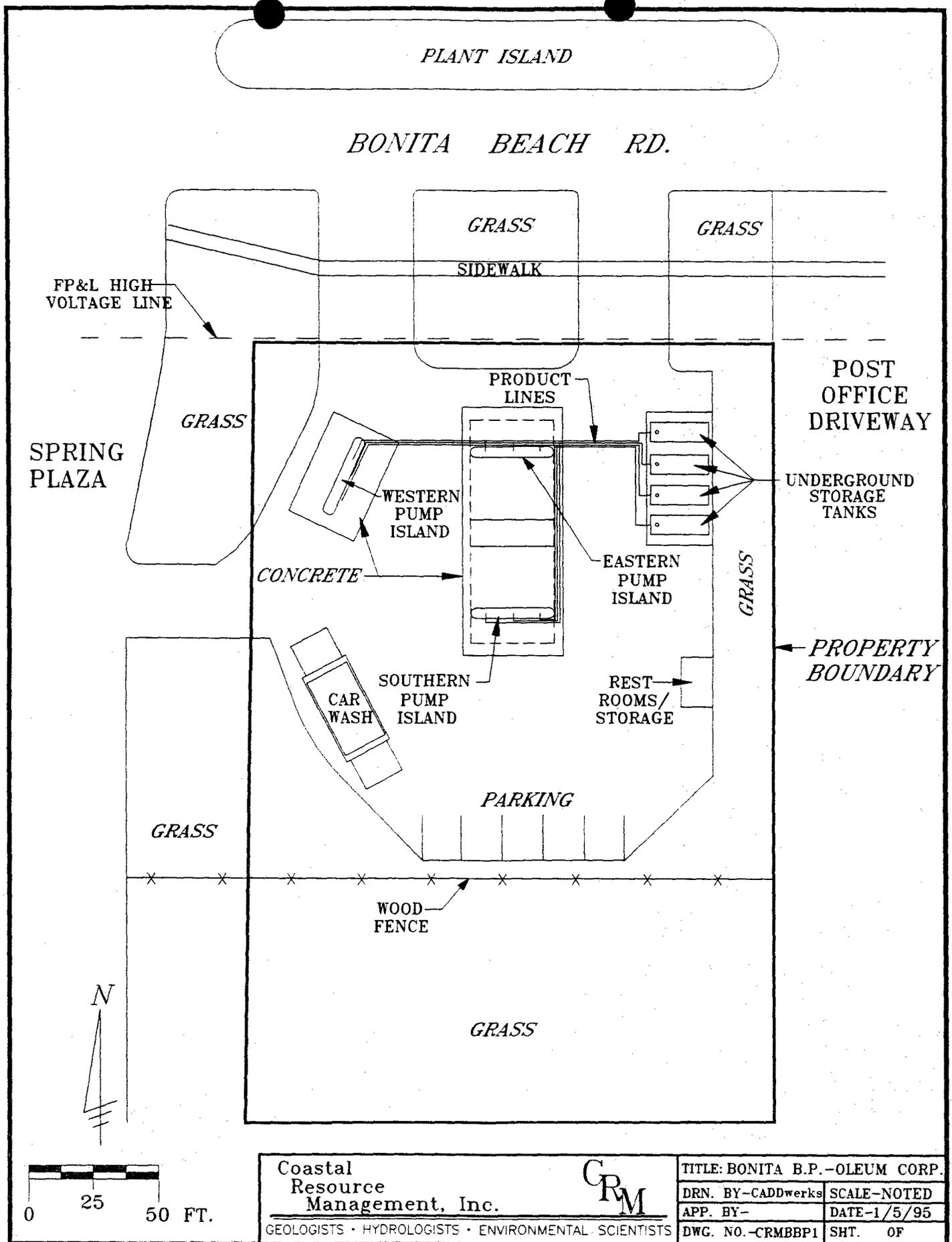


FIGURE 2. MAP SHOWING PERTINENT FEATURES, BONITA B.P., OLEUM CORP.

Coastal Resource Management, Inc. 		TITLE: BONITA B.P.-OLEUM CORP.	
GEOLOGISTS • HYDROLOGISTS • ENVIRONMENTAL • SCIENTISTS		DRN. BY-CADDwerks	SCALE-NOTED
		APP. BY-	DATE-1/5/95
		DWG. NO.-CRMBBP1	SHT. OF

constructed of fiberglass clad steel. All tanks were in good condition with no significant rust or pitting and no apparent holes.

Soil samples were collected for analyses by the OVA at selected intervals to depths of five (5) and five and one-half (5.5) feet below land surface. The surface of the water table was encountered at approximately six (6) feet below grade. Table 1 provides the results of the OVA survey and Figure 3 indicates locations of soils sampled.

C. Excavation of the Dispenser Islands and Contaminated Soil

The three (3) dispenser islands (designated as the western, eastern and southern islands) and the product piping were excavated on November 16, 17 and 18, 1994. Excavation of these areas was completed to a depth of about two and one half (2.5) to three (3) feet below grade. Excessively contaminated soils were encountered at the western and eastern dispenser islands (refer to Figure 3 for limits of excavated soil, and Table 1 for OVA survey).

Excessively contaminated soils encountered at the western and eastern dispenser islands were excavated and stockpiled on asphalt on-site. Excavation of soil was completed to a depth of approximately five (5) feet below land surface. The contaminated soil stockpile was covered with visqueen to prevent the potential spread of contamination. A groundwater sample was not collected for analyses because soil contamination was identified on-site. A Discharge Reporting Form was submitted to the LCDNRM on November 17, 1994 (refer to Appendix C).

III. PRE-BURN ANALYSES AND REMOVAL OF CONTAMINATED SOIL

On November 18, 1994, CRM collected three (3) composite samples of the contaminated soil stockpile for analyses of pre-burn parameters, which include EPA Method 8010, 8020, 9873 and the eight (8) RCRA metals (refer to Appendix D). On December 14, 1994, a total of 403.17 tons of contaminated soils were transported to South Florida Thermal Services, Inc. for remediation by thermal techniques. A Certificate

**TABLE 1. OVA SURVEY
BONITA B.P. - OLEUM CORPORATION**

Site No.	Depth Below Grade (ft.)	OVA Readings (ppm)	OVA Reading with Carbon Filter	OVA Reading Adjusted
1	2	0	0	0
	5	4	0	4
2	2	0	0	0
	5	70	44	26
3	2	0	0	0
	5	90	72	18
4	2	1	0	1
	5	88	46	42
5	2	65	25	40
	5	4	0	4
6	2	46	12	34
7	3	280	280	0
	4	180	140	40
	5.5	180	150	30
8	3	70	60	10
	5	40	0	40
9	2	28	8	20
	5	470	460	10
10	2	50	18	32
	5	880	490	390
11	2	40	0	40
12	2	90	90	0
	5	80	40	40
13	2	3	0	3
	5	120	100	20

**TABLE 1. OVA SURVEY
BONITA B.P. - OLEUM CORPORATION**

Site No.	Depth Below Grade (ft.)	OVA Readings (ppm)	OVA Reading with Carbon Filter	OVA Reading Adjusted
14	2	26	8	18
	3	58	14	44
	5	80	60	20
15	2	12	2	10
	5	62	40	22
16	2	>1,000	500	>500
	5	>1,000	>1,000	*
17	2	960	280	680
	5	>1,000	>1,000	*
18	2	38	8	30
	5	>1,000	120	880
19	2	20	4	16
	5	120	96	24
20	2	46	0	46
21	2	16	2	14
	5	12	8	4
22	2	48	16	32
	5	60	42	18
23	2	400	0	400
	4	900	82	818
24	2	180	0	180
	5	720	70	650
25	2	48	8	40
	5	68	32	36
26	2	26	6	20
	5	76	34	42

* Unable to obtain valid OVA reading.

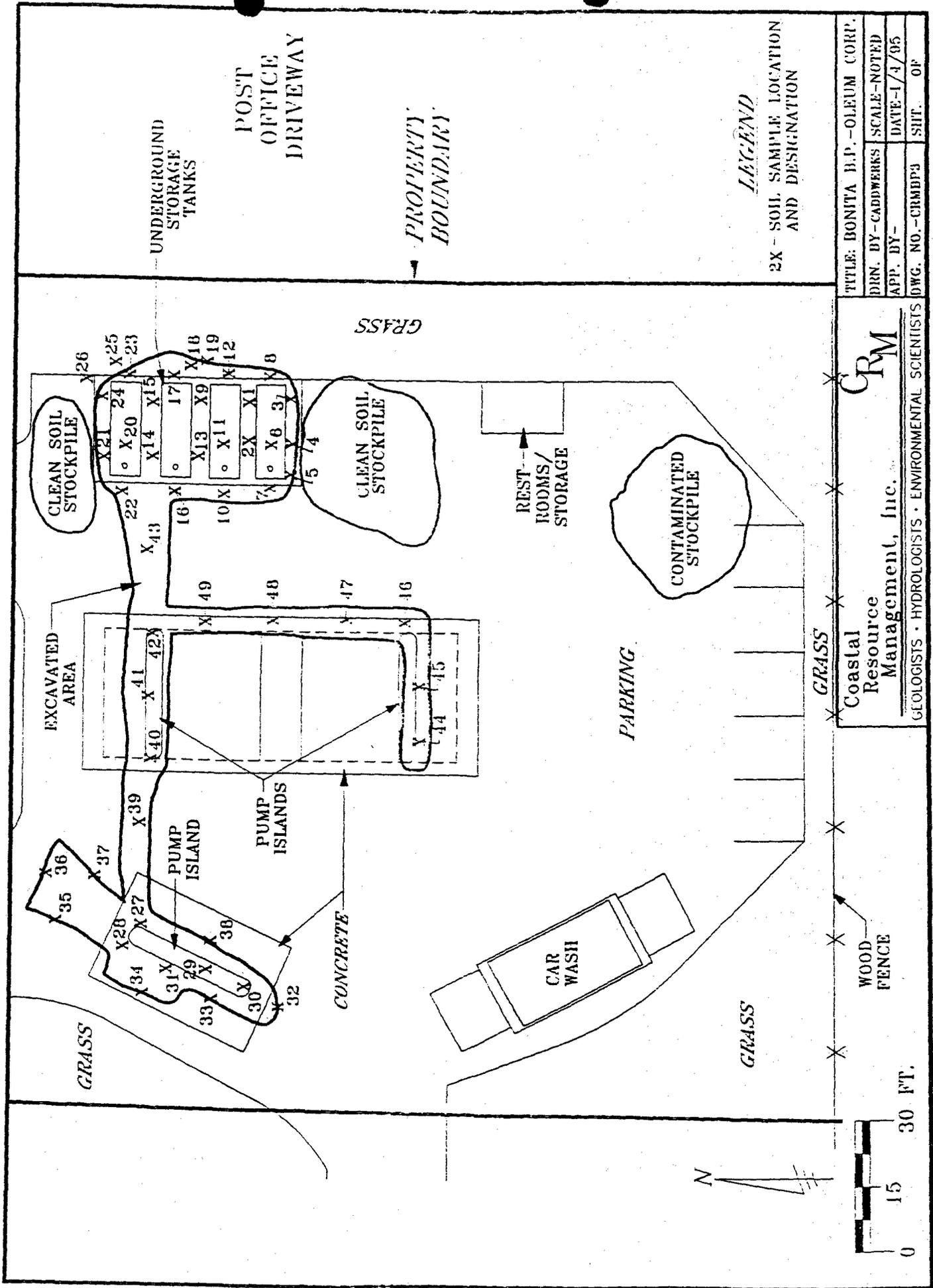
**TABLE 1. OVA SURVEY
BONITA B.P. - OLEUM CORPORATION**

Site No.	Depth Below Grade (ft.)	OVA Readings (ppm)	OVA Reading with Carbon Filter	OVA Reading Adjusted
27	2	420	140	280
	5	>1,000	260	>740
28	2	420	120	300
	5	>1,000	280	>720
29	2	100	30	70
	5	820	180	640
30	2	58	0	58
	3.5	>1,000	140	>860
	4.5	>1,000	>1,000	*
31	2	84	0	84
	5	>1,000	460	>540
32	2	0	0	0
	5	0	0	0
33	2.5	4	0	4
	5	>1,000	490	>510
34	2.5	2	0	2
	5	420	270	150
35	2.5	>1,000	24	>976
	5	>1,000	>1,000	*
36	2.5	40	0	40
	5	>1,000	120	>880
37	2.5	>1,000	8	>992
	5	>1,000	480	>520
38	2.5	0	0	0
	5	170	32	138
39	2.5	>1,000	180	>820
40	2.5	>1,000	180	>820

* Unable to obtain valid OVA reading.

**TABLE 1. OVA SURVEY
BONITA B.P. - OLEUM CORPORATION**

Site No.	Depth Below Grade (ft.)	OVA Readings (ppm)	OVA Reading with Carbon Filter	OVA Reading Adjusted
41	1.5	>1,000	110	>890
	2.5	>1,000	240	>760
42	1.5	>1,000	180	>820
	2.5	>1,000	220	>780
43	2.5	>1,000	120	>880
44	2	140	100	40
	4	80	58	22
45	1.5	180	180	0
	3	120	92	28
46	2.5	4	0	4
47	2.5	3	1	2
48	2.5	220	84	136
49	2.5	>1,000	420	>680



LEGEND

2X - SOIL SAMPLE LOCATION AND DESIGNATION

TITLE: BONITA B.P. - OLEUM CORP.
DIRN. BY - CADDWICKS SCALE - NOTED
APP. BY -
DATE - 1/4/95
DWG. NO. - CRMPP3
SHT. OF

CRM
Coastal Resource Management, Inc.
GEOLOGISTS • HYDROLOGISTS • ENVIRONMENTAL SCIENTISTS

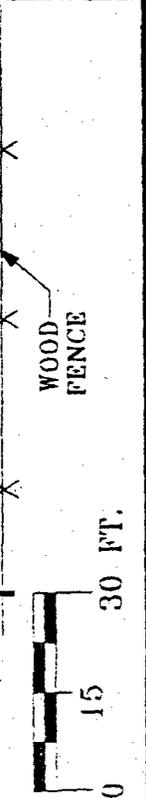


FIGURE 3. MAP SHOWING EXCAVATED AREA, SOIL STOCKPILES, AND SOIL SAMPLE LOCATIONS, BONITA B.P. - OLEUM CORP.

of Materials Recycling will be provided to the LCDNRM when available.

IV. CONCLUSIONS

Four (4) UST's and product piping have been removed from the Bonita B.P. facility located in Bonita Springs, Florida.

Excessively contaminated soils were encountered at the tank farm area and at the western and eastern dispenser islands. Excessively contaminated soil above the water table was excavated and stockpiled on-site.

A total of 403.17 tons of contaminated soils have been removed from the site for thermal treatment at a licensed facility. A Closure Assessment Form is provided as Appendix E; an Initial Remedial Action Report Form is provided as Appendix F.

A CAR will be submitted to Lee County Division of Natural Resources Management within six (6) months of discovery of the petroleum discharge.

APPENDICES

- Exhibit A. Tank Disposal Manifests
- Exhibit B. Contaminated Liquid Manifest
- Exhibit C. Discharge Reporting Form
- Exhibit D. Laboratory Results of Pre-Burn Analyses
- Exhibit E. Closure Assessment Form
- Exhibit F. Initial Remedial Action Report Form

EXHIBIT A - TANK DISPOSAL MANIFESTS



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-761.900(5)
Underground Storage Tank Installation & Removal Form for Certified Contractors
Form Title
Effective Date December 10, 1990
DER Application No. (Filed in by DER)

Underground Storage Tank Installation and Removal Form For Certified Contractors

Pollutant Storage System Specialty Contractors as defined in Section 489.113, Florida Statutes (Certified contractors as defined in Section 17-761.200, Florida Administrative Code) shall use this form to certify that the installation, replacement or removal of the storage tank system(s) located at the address listed below was performed in accordance with Department Reference Standards.

General Facility Information

- 1. DER Facility Identification No.: 368520618
2. Facility Name: B.P. STATION Telephone: (813) 262-2600
3. Street Address (physical location): 9021 BONITA BEACH ROAD, BONITA SPRINGS, FL.
4. Owner Name: OLEUM CORPORATION Telephone: (813) 262-2600
5. Owner Address: P.O. BOX 413038, NAPLES, FL. 33941
6. Number of Tanks: a. Installed at this time b. Removed at this time 4
7. Tank(s) Manufactured by: BUFFALO TANK CO.
8. Date Work Initiated: 11/1/94 9. Date Work Completed: 11/20/94

Underground Pollutant Tank Installation Checklist

Please certify the completion of the following installation requirements by placing an (X) in the appropriate box.

- 1. The tanks and piping are corrosion resistant and approved for use by State and Federal Laws.
2. Excavation, backfill and compaction completed in accordance with NFPA (National Fire Protection Association) 30(87), API (American Petroleum Institute) 1615, PEI (Petroleum Equipment Institute) RP100-87 and the manufacturers' specifications.
3. Tanks and piping pretested and installed in accordance with NFPA 30(87), API 1615, PEI/RP100(87) and the manufacturers' specifications.
4. Steel tanks and piping are cathodically protected in accordance with NFPA 30(87), API 1632, UL (Underwriters Laboratory) 1746, STI (Steel Tank Institute) R892-89 and the manufacturer's specifications.
5. Tanks and piping tested for tightness after installation in accordance with NFPA 30(87) and PEI/RP100-87.
6. Monitoring well(s) or other leak detection devices installed and tested in accordance with Section 17-761.640, Florida Administrative Code (F.A.C.)
7. Spill and overfill protection devices installed in accordance with Section 17-761.500, F.A.C.
8. Secondary containment installed for tanks and piping as applicable in accordance with Section 17-761.500, F.A.C.

Please Note: The numbers following the abbreviations (e.g. API 1615) are publication or specification numbers issued by these institutions.

Underground Pollutant Tank Removal Checklist

- 1. Closure assessment performed in accordance with Section 17-761.800, F.A.C.
2. Underground tank removed and disposed of as specified in API 1604 in accordance with Section 17-761.800, F.A.C.

WEST COAST
Mechanical, Inc.

P.O. Box 05-1016
Ft. Myers, FL 33905

State Certified Contractors
(813) 995-4900

TANK DISPOSAL MANIFEST

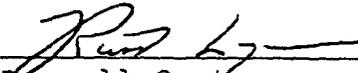
Date: 12/14/94

Re: Tank Disposal

Job Location: B.P. STATION
.....9021 BONITA BEACH RD.
.....BONITA SPRINGS, FL.

The following tanks were removed from the above location, cut up and scrapped in accord with all State and Local codes: D.E.R. and N.F.P.A.

.....TANKS: 4
.....SIZE: 10,000 GALLON
.....STEEL/FIBERGLASS

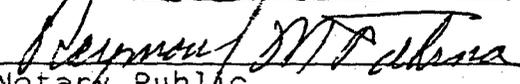


Russell C. Lynn
West Coast Mechanical, Inc.

Corporate Seal

RL:raa

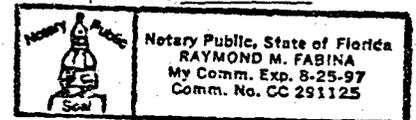
Signed and sealed this 14th
day of December, 1994.



Notary Public
State of Florida

My Commission expires _____

Seal



May 23, 2016

Charles A. Masella
FDEP South District CAP TK/SW/WC
239-344-5667
Charles.Masella@dep.state.fl.us

RE: Groundwater Sampling Letter Report/Site Rehabilitation Completion Report (SRCR)
8951 Bonita Beach Road
Bonita Springs, Florida 33923
FDEP Tracking: COM_50410 (Waste Cleanup)
EBI Project #1215000117

Dear Mr. Masella:

EBI Consulting (EBI) on behalf the current site owner is pleased to submit our *Groundwater Sampling Letter Report (Report)/ Site Rehabilitation Completion Report (SRCR)* requests for the property identified located at 8951 Bonita Beach Road in Bonita Springs, Florida (the Subject Property).

BACKGROUND

Spring Fresh Drycleaners was formerly located in Unit 210 of the northwest building from approximately the 1980s until the 1990s. Previous investigations at the Subject Property identified impact groundwater in the vicinity of the former dry cleaner. Mr. Steve Folsom of HAS Engineers & Scientists stated that the contamination appears to be confined primarily to the former drycleaners space and the direction of groundwater is to the north. The Subject Property was enrolled in the Florida Department of Environmental Protection (FDEP) Voluntary Cleanup Program (VCP). Initial remediation activities began in May 1999 and the FDEP approved the Remedial Action Plan (RAP) in June 1999.

The RAP consisted of a two –phase approach to remediation. Phase I concentrated on source removal in the unsaturated soils beneath the former drycleaner and in the rear of the building. This was accomplished by using dual-phase extraction (liquid ring pump) that created a high vacuum beneath the building slab and asphalt behind the building, and removing contamination soil vapor as well as groundwater in the vicinity. Phase II focused on treating groundwater contamination composed of cDCE using biosparging to accelerated natural attenuation. A groundwater recovery system was also included in Phase II to control movement of oxygenated groundwater. In June 2000, HAS submitted a report amending the RAP to include lactate injection. The Remediation Performance report dated November 27, 2002 recommended installation of an additional recovery well (RW-1) nearer the recognized source (back door of the former facility) to further reduce remediation time.

From reviewing the October 2003, December 2003, and March 2004 quarterly monitoring session reports, it appears that many of the contaminants levels have decreased over time. HAS proposed using alternative cleanup levels based on poor water quality in the general area of the Subject Property. Based on a letter dated January 2, 2004, FDEP approved the use of the alternative cleanup levels but indicated that an institutional control, such as a deed restriction, would be required to achieve closure if the alternative levels were utilized. As of March of 2006, the site has reached closure and no further remediation was required provided deed restrictions or engineering controls were implemented.

FIELD ACTIVITIES

In order to establish current groundwater conditions, the monitoring wells were inspected and sampled. On May 29, 2015, EBI conducted a well search at the Subject Property. A total of 10 monitoring wells were identified onsite. Each of the wells were inspected to determine the integrity of the well. Two of the monitoring wells could not be opened because the manhole covers were concreted on and could not be removed. The monitoring well locations are presented in Figure 1, attached. The table below summarizes the identified monitoring wells.

SUMMARY OF MONITORING WELL DETAILS

WELL ID #	DEPTH TO WATER (FEET)	WELL DEPTH (FEET)	WELL DIAMETER (INCHES)	NOTES
MW-1	UNKNOWN	UNKNOWN	UNKNOWN	COULD NOT OPEN
MW-3	4.30	11.90	1	GOOD CONDITION
MW-4	UNKNOWN	UNKNOWN	UNKNOWN	COULD NOT OPEN
MW-7	4.19	12	2	GOOD CONDITION
MW-8	2.55	12	2	WELL COVER BROKEN
MW-9	4.07	8.2	2	PARTIALLY FILLED WITH SEDIMENT
MW-10	2.61	12.8	2	GOOD CONDITION
CW-1	5.88	28.5	1	GOOD CONDITION
CW-2	5.70	39.35	1	GOOD CONDITION
DW-1	5.10	37.9	2	GOOD CONDITION

Note: bgs = below ground surface

Groundwater samples were collected from existing monitoring wells using a peristaltic pump and disposable tubing.

Prior to the collection of groundwater samples, each well was purged of three to five boring volumes of groundwater and the pH, specific conductance, and temperature, and dissolved oxygen (DO) of the groundwater was recorded approximately every one-half boring volume. Well purging continued until a minimum of three well volumes was purged and measurements of field parameters varied by less than 10% between consecutive readings. EBI recorded the field data collected during groundwater sampling onto Groundwater Sampling Records that are presented in Appendix B.

The groundwater samples were collected in clean laboratory-provided containers. Samples collected for VOC analysis were preserved with hydrochloric acid to a pH less than 2. Each sample was labeled/logged onto a chain-of-custody form, and placed in a cooler with ice for preservation in accordance with current Federal EPA SW-846 (3rd ed.). After collection, the samples were submitted to an independent qualified laboratory Accutest for analyses. The samples were analyzed for VOC analysis via EPA Method 8260.

ANALYTICAL RESULTS

The groundwater samples were analyzed for VOC analysis via EPA Method 8260. The following table presents only the contaminants identified above the laboratory method detection limits:

Table I		Groundwater Results								
Project:		8951 Bonita Beach Rd, Bonita Springs, FL								
Project Number:		I215000117								
Legend:								Hit	Exceed	
Client Sample ID:		FDEP Groundwater Criteria	CW-1	CW-2	DMW-2	MW-10	MW-3	MW-7	MW-8	MW-9
Lab Sample ID:			FA24850-4	FA24850-5	FA24850-8	FA24850-1	FA24850-3	FA24850-7	FA24850-2	FA24850-6
Date Sampled:			6/2/2015	6/2/2015	6/2/2015	6/1/2015	6/1/2015	6/2/2015	6/1/2015	6/2/2015
Matrix:			Ground Water							
VOCs										
Bromodichloromethane	ug/l	0.6	ND	0.67 I						
Chloroform	ug/l	70	ND	3						
cis-1,2-Dichloroethylene	ug/l	70	8.2	6	9	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	ug/l	100	5.1	2.1	7.7	ND	ND	ND	ND	ND
Tetrachloroethylene	ug/l	3	ND	ND	ND	ND	ND	0.34 I	ND	ND
Vinyl Chloride	ug/l	I	1.1	4.7	ND	ND	ND	ND	ND	ND

Notes: All results are shown in micrograms per liter ug/L
ND = Non-detected above laboratory detection limits

The analytical results of the groundwater samples revealed concentrations of bromodichloromethane and vinyl chloride above the FDEP Groundwater Criteria.

Laboratory groundwater analytical results and complete laboratory data sheets and chain-of-custody documentation are attached along with the groundwater sampling field data sheets.

ADDITIONAL REMEDIAL ACTIVITIES AND GROUNDWATER SAMPLING RESULTS

EBI returned to the Subject Property on December 3 and 4, 2015 to complete a round of groundwater extraction from wells CW-1, CW-2 and MW-9. Approximately 165 gallons were purged from MW-9, 55 gallons from CW-2 and 275 gallons from CW-1. Recovery was low from well CW-2 (deep well) so additional groundwater was purged from CW-1.

Groundwater samples were collected from all of the onsite monitoring wells on December 10, 2015. The groundwater samples were analyzed for VOC analysis via EPA Method 8260. The following table presents only the contaminants identified above the laboratory method detection limits:

Table 2		Groundwater Results									
									Legend:	Hit	Exceed
Client Sample ID:		FDEP Groundwater	CW-1	CW-2	DMW-2	MW-10	MW-3	MW-7	MW-8	MW-9	
Lab Sample ID:		Criteria	FA29984-4	FA29984-5	FA29984-8	FA29984-1	FA29984-3	FA29984-7	FA29984-2	FA29984-6	
Date Sampled:			12/10/2015	12/10/2015	12/10/2015	12/10/2015	12/10/2015	12/10/2015	12/10/2015	12/10/2015	
Matrix:			Ground Water								
VOCs											
cis-1,2-Dichloroethylene	ug/l	70	5	5.5	8.1	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethylene	ug/l	100	3	2.3	8	ND	ND	ND	ND	ND	
1,2-Dichloroethene (total)	ug/l	63	8.1	7.7	16.1	ND	ND	ND	ND	ND	
Vinyl Chloride	ug/l	1	ND	1.6	ND	ND	ND	ND	ND	ND	

Notes: All results are shown in micrograms per liter ug/L
ND = Non-detected above laboratory detection limits

The analytical results of the groundwater samples revealed concentrations of vinyl chloride above the FDEP Groundwater Criteria in monitoring well CW-2.

EBI returned to the Subject Property on March 10, 2016 to complete a round of groundwater sampling. Groundwater samples were collected from all of the onsite monitoring wells on December 10, 2015. The groundwater samples were analyzed for VOC analysis via EPA Method 8260. The following table presents only the contaminants identified above the laboratory method detection limits:

Table 3		Groundwater									
									Legend:	Hit	Exceed
Client Sample ID:		FDEP Groundwater Criteria	MW-10	MW-8	MW-3	CW-2	CW-1	MW-7	MW-9	DMW-2	
Lab Sample ID:		Criteria	FA32152-1	FA32152-2	FA32152-3	FA32152-4	FA32152-5	FA32152-6	FA32152-7	FA32152-8	
Date Sampled:			3/10/2016	3/10/2016	3/10/2016	3/10/2016	3/10/2016	3/10/2016	3/10/2016	3/10/2016	
Matrix:			Ground Water								
VOCs											
cis-1,2-Dichloroethylene	ug/l	70	ND	ND	ND	4.4	4.8	ND	ND	5.8	
trans-1,2-Dichloroethylene	ug/l	100	ND	ND	ND	1.6	3	ND	ND	6	
1,2-Dichloroethene (total)	ug/l	63	ND	ND	ND	6	7.9	ND	ND	11.8	
Tetrachloroethylene	ug/l	3	ND	ND	ND	ND	ND	0.33	1	ND	
Vinyl Chloride	ug/l	1	ND	ND	ND	1.5	1.3	ND	ND	ND	

The analytical result of the groundwater samples revealed concentrations of vinyl chloride above the FDEP Groundwater Criteria in monitoring wells CW-1 and CW-2.

Laboratory groundwater analytical results and complete laboratory data sheets and chain-of-custody documentation are attached along with the groundwater sampling field data sheets.

CONCLUSIONS AND RECOMMENDATIONS

On June 1 and 2, 2015, EBI conducted groundwater sampling from the existing monitoring wells at the Subject Property. The samples were analyzed for VOCs via EPA Method 8260. The analytical results of the groundwater samples revealed concentrations of bromodichloromethane and vinyl chloride above the FDEP Groundwater Criteria.

EBI returned to the Subject Property on December 3 and 4, 2015 complete a round of groundwater extraction from wells CW-1, CW-2 and MW-9. Approximately 165 gallons were purged from MW-9, 55 gallons from CW-2 and 275 gallons from CW-1. Recovery was low from well CW-2 (deep well) so additional groundwater was purged from CW-1.

Groundwater samples were collected from all of the onsite monitoring wells on December 10, 2015. The analytical results of the groundwater samples revealed concentrations of vinyl chloride above FDEP Groundwater Criteria in monitoring well CW-2.

EBI returned to the Subject Property on March 10, 2016 and collected groundwater samples from all of the onsite monitoring wells. The analytical result of the groundwater samples revealed concentrations of vinyl chloride above the FDEP Groundwater Criteria in monitoring wells CW-1 and CW-2.

Based on the results of the sampling and the email from FDEP dated April 19, 2016 (copy attached), EBI is requesting for consideration No Further Action (NFA), pursuant to Chapter 62-780.680(1) Risk Management Options Level I (RMO I).

The contact information for the responsible party is as follows:

Mr. John Kopans
DRA Advisors, LLC
220 E 42nd Street, 27th Floor
New York, NY 10017

Thank you for providing EBI the opportunity to assist you in this important project. Please contact Rich George at 954.483.6722 with any comments or questions you may have.

Respectfully submitted,
EBI CONSULTING



Richard George,
Author/Senior Project Manager
(954) 483-6722



David Brutcher, PG
Reviewer/Senior Program Manager
Florida PG # 1329

Attachments:

- A: Figure 1
- B: Laboratory Results
- C: Groundwater Sampling Field Data Sheets



Monitoring Well Location Map



Lab Data

Technical Report for

EBI Consulting

8951 Bonita Beach Rd, Bonita Springs, FL

1215000117

SGS Accutest Job Number: FA32152

Sampling Date: 03/10/16

Report to:

EBI Consulting
21 B St
Burlington, MA 01803
sclorety@ebiconsulting.com

ATTN: Stephanie Clorety

Total number of pages in report: 31



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001)
DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177),
AK, AR, GA, KY, MA, NV, OK, UT, WA

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: FA32152-1: MW-10	6
3.2: FA32152-2: MW-8	8
3.3: FA32152-3: MW-3	10
3.4: FA32152-4: CW-2	12
3.5: FA32152-5: CW-1	14
3.6: FA32152-6: MW-7	16
3.7: FA32152-7: MW-9	18
3.8: FA32152-8: DMW-2	20
Section 4: Misc. Forms	22
4.1: Chain of Custody	23
Section 5: GC/MS Volatiles - QC Data Summaries	25
5.1: Method Blank Summary	26
5.2: Blank Spike Summary	28
5.3: Matrix Spike/Matrix Spike Duplicate Summary	30

1

2

3

4

5



Sample Summary

EBI Consulting

Job No: FA32152

8951 Bonita Beach Rd, Bonita Springs, FL
 Project No: 1215000117

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA32152-1	03/10/16	16:33 HT	03/11/16	AQ	Ground Water	MW-10
FA32152-2	03/10/16	15:54 HT	03/11/16	AQ	Ground Water	MW-8
FA32152-3	03/10/16	15:07 HT	03/11/16	AQ	Ground Water	MW-3
FA32152-4	03/10/16	14:36 HT	03/11/16	AQ	Ground Water	CW-2
FA32152-5	03/10/16	13:46 HT	03/11/16	AQ	Ground Water	CW-1
FA32152-6	03/10/16	12:58 HT	03/11/16	AQ	Ground Water	MW-7
FA32152-7	03/10/16	12:18 HT	03/11/16	AQ	Ground Water	MW-9
FA32152-8	03/10/16	11:39 HT	03/11/16	AQ	Ground Water	DMW-2

Summary of Hits

Job Number: FA32152
Account: EBI Consulting
Project: 8951 Bonita Beach Rd, Bonita Springs, FL
Collected: 03/10/16

Lab Sample ID	Client Sample ID	Result/ Qual	PQL	MDL	Units	Method
---------------	------------------	-----------------	-----	-----	-------	--------

FA32152-1 MW-10

No hits reported in this sample.

FA32152-2 MW-8

No hits reported in this sample.

FA32152-3 MW-3

No hits reported in this sample.

FA32152-4 CW-2

cis-1,2-Dichloroethylene	4.4	1.0	0.31	ug/l	SW846 8260B
trans-1,2-Dichloroethylene	1.6	1.0	0.33	ug/l	SW846 8260B
1,2-Dichloroethene (total)	6.0	2.0	0.64	ug/l	SW846 8260B
Vinyl Chloride	1.5	1.0	0.31	ug/l	SW846 8260B

FA32152-5 CW-1

cis-1,2-Dichloroethylene	4.8	1.0	0.31	ug/l	SW846 8260B
trans-1,2-Dichloroethylene	3.0	1.0	0.33	ug/l	SW846 8260B
1,2-Dichloroethene (total)	7.9	2.0	0.64	ug/l	SW846 8260B
Vinyl Chloride	1.3	1.0	0.31	ug/l	SW846 8260B

FA32152-6 MW-7

Tetrachloroethylene	0.33 I	1.0	0.30	ug/l	SW846 8260B
---------------------	--------	-----	------	------	-------------

FA32152-7 MW-9

No hits reported in this sample.

FA32152-8 DMW-2

cis-1,2-Dichloroethylene	5.8	1.0	0.31	ug/l	SW846 8260B
trans-1,2-Dichloroethylene	6.0	1.0	0.33	ug/l	SW846 8260B
1,2-Dichloroethene (total)	11.8	2.0	0.64	ug/l	SW846 8260B

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-10		Date Sampled: 03/10/16
Lab Sample ID: FA32152-1		Date Received: 03/11/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: 8951 Bonita Beach Rd, Bonita Springs, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B112104.D	1	03/12/16	WV	n/a	n/a	VB4526
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Halogenated List

CAS No.	Compound	Result	PQL	MDL	Units	Q
75-27-4	Bromodichloromethane	0.24 U	1.0	0.24	ug/l	
75-25-2	Bromoform	0.46 U	1.0	0.46	ug/l	
56-23-5	Carbon Tetrachloride	0.30 U	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	0.20 U	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.63 U	2.0	0.63	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^a	1.0 U	5.0	1.0	ug/l	
67-66-3	Chloroform	0.30 U	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	0.26 U	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.27 U	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	0.24 U	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	0.39 U	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	0.26 U	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	0.28 U	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	0.22 U	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.31 U	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.33 U	1.0	0.33	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.64 U	2.0	0.64	ug/l	
78-87-5	1,2-Dichloropropane	0.34 U	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.26 U	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.25 U	1.0	0.25	ug/l	
74-83-9	Methyl Bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	0.50 U	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	2.0 U	5.0	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.33 U	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	0.30 U	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	0.37 U	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	0.27 U	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.31 U	1.0	0.31	ug/l	

U = Not detected MDL = Method Detection Limit I = Result >= MDL but < PQL J = Estimated value
 PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
 L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-10		Date Sampled: 03/10/16
Lab Sample ID: FA32152-1		Date Received: 03/11/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: 8951 Bonita Beach Rd, Bonita Springs, FL		

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Result reported from HCl preserved sample and should be used for screening purposes only.

U = Not detected MDL = Method Detection Limit
 PQL = Practical Quantitation Limit
 L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
 V = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-8		Date Sampled: 03/10/16
Lab Sample ID: FA32152-2		Date Received: 03/11/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: 8951 Bonita Beach Rd, Bonita Springs, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	B112105.D	1	03/12/16	WV	n/a	n/a	VB4526
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Halogenated List

CAS No.	Compound	Result	PQL	MDL	Units	Q
75-27-4	Bromodichloromethane	0.24 U	1.0	0.24	ug/l	
75-25-2	Bromoform	0.46 U	1.0	0.46	ug/l	
56-23-5	Carbon Tetrachloride	0.30 U	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	0.20 U	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.63 U	2.0	0.63	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^b	1.0 U	5.0	1.0	ug/l	
67-66-3	Chloroform	0.30 U	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	0.26 U	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.27 U	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	0.24 U	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	0.39 U	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	0.26 U	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	0.28 U	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	0.22 U	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.31 U	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.33 U	1.0	0.33	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.64 U	2.0	0.64	ug/l	
78-87-5	1,2-Dichloropropane	0.34 U	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.26 U	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.25 U	1.0	0.25	ug/l	
74-83-9	Methyl Bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	0.50 U	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	2.0 U	5.0	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.33 U	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	0.30 U	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	0.37 U	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	0.27 U	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.31 U	1.0	0.31	ug/l	

U = Not detected MDL = Method Detection Limit I = Result >= MDL but < PQL J = Estimated value
 PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
 L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: MW-8	Date Sampled: 03/10/16
Lab Sample ID: FA32152-2	Date Received: 03/11/16
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: 8951 Bonita Beach Rd, Bonita Springs, FL	

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

(a) Sample was treated with an anti-foaming agent.

(b) Result reported from HCl preserved sample and should be used for screening purposes only.

U = Not detected MDL = Method Detection Limit
 PQL = Practical Quantitation Limit
 L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
 V = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-3		Date Sampled: 03/10/16
Lab Sample ID: FA32152-3		Date Received: 03/11/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: 8951 Bonita Beach Rd, Bonita Springs, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	B112106.D	1	03/12/16	WV	n/a	n/a	VB4526
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Halogenated List

CAS No.	Compound	Result	PQL	MDL	Units	Q
75-27-4	Bromodichloromethane	0.24 U	1.0	0.24	ug/l	
75-25-2	Bromoform	0.46 U	1.0	0.46	ug/l	
56-23-5	Carbon Tetrachloride	0.30 U	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	0.20 U	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.63 U	2.0	0.63	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^b	1.0 U	5.0	1.0	ug/l	
67-66-3	Chloroform	0.30 U	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	0.26 U	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.27 U	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	0.24 U	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	0.39 U	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	0.26 U	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	0.28 U	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	0.22 U	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.31 U	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.33 U	1.0	0.33	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.64 U	2.0	0.64	ug/l	
78-87-5	1,2-Dichloropropane	0.34 U	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.26 U	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.25 U	1.0	0.25	ug/l	
74-83-9	Methyl Bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	0.50 U	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	2.0 U	5.0	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.33 U	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	0.30 U	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	0.37 U	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	0.27 U	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.31 U	1.0	0.31	ug/l	

U = Not detected MDL = Method Detection Limit I = Result >= MDL but < PQL J = Estimated value
 PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
 L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-3 Lab Sample ID: FA32152-3 Matrix: AQ - Ground Water Method: SW846 8260B Project: 8951 Bonita Beach Rd, Bonita Springs, FL	Date Sampled: 03/10/16 Date Received: 03/11/16 Percent Solids: n/a
--	---

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Sample was treated with an anti-foaming agent.

(b) Result reported from HCl preserved sample and should be used for screening purposes only.

U = Not detected MDL = Method Detection Limit
 PQL = Practical Quantitation Limit
 L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
 V = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

34
3

Client Sample ID: CW-2	Date Sampled: 03/10/16
Lab Sample ID: FA32152-4	Date Received: 03/11/16
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: 8951 Bonita Beach Rd, Bonita Springs, FL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B112107.D	1	03/12/16	WV	n/a	n/a	VB4526
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Halogenated List

CAS No.	Compound	Result	PQL	MDL	Units	Q
75-27-4	Bromodichloromethane	0.24 U	1.0	0.24	ug/l	
75-25-2	Bromoform	0.46 U	1.0	0.46	ug/l	
56-23-5	Carbon Tetrachloride	0.30 U	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	0.20 U	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.63 U	2.0	0.63	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^a	1.0 U	5.0	1.0	ug/l	
67-66-3	Chloroform	0.30 U	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	0.26 U	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.27 U	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	0.24 U	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	0.39 U	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	0.26 U	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	0.28 U	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	0.22 U	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	4.4	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.6	1.0	0.33	ug/l	
540-59-0	1,2-Dichloroethene (total)	6.0	2.0	0.64	ug/l	
78-87-5	1,2-Dichloropropane	0.34 U	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.26 U	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.25 U	1.0	0.25	ug/l	
74-83-9	Methyl Bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	0.50 U	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	2.0 U	5.0	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.33 U	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	0.30 U	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	0.37 U	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	0.27 U	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	1.5	1.0	0.31	ug/l	

U = Not detected MDL = Method Detection Limit I = Result >= MDL but < PQL J = Estimated value
 PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
 L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CW-2	
Lab Sample ID: FA32152-4	Date Sampled: 03/10/16
Matrix: AQ - Ground Water	Date Received: 03/11/16
Method: SW846 8260B	Percent Solids: n/a
Project: 8951 Bonita Beach Rd, Bonita Springs, FL	

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Result reported from HCl preserved sample and should be used for screening purposes only.

U = Not detected MDL = Method Detection Limit
 PQL = Practical Quantitation Limit
 L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
 V = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CW-1		Date Sampled: 03/10/16
Lab Sample ID: FA32152-5		Date Received: 03/11/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: 8951 Bonita Beach Rd, Bonita Springs, FL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B112108.D	1	03/12/16	WV	n/a	n/a	VB4526
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Halogenated List

CAS No.	Compound	Result	PQL	MDL	Units	Q
75-27-4	Bromodichloromethane	0.24 U	1.0	0.24	ug/l	
75-25-2	Bromoform	0.46 U	1.0	0.46	ug/l	
56-23-5	Carbon Tetrachloride	0.30 U	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	0.20 U	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.63 U	2.0	0.63	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^a	1.0 U	5.0	1.0	ug/l	
67-66-3	Chloroform	0.30 U	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	0.26 U	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.27 U	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	0.24 U	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	0.39 U	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	0.26 U	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	0.28 U	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	0.22 U	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	4.8	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	3.0	1.0	0.33	ug/l	
540-59-0	1,2-Dichloroethene (total)	7.9	2.0	0.64	ug/l	
78-87-5	1,2-Dichloropropane	0.34 U	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.26 U	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.25 U	1.0	0.25	ug/l	
74-83-9	Methyl Bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	0.50 U	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	2.0 U	5.0	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.33 U	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	0.30 U	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	0.37 U	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	0.27 U	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	1.3	1.0	0.31	ug/l	

U = Not detected MDL = Method Detection Limit

PQL = Practical Quantitation Limit

L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-7		Date Sampled: 03/10/16
Lab Sample ID: FA32152-6		Date Received: 03/11/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: 8951 Bonita Beach Rd, Bonita Springs, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B112109.D	1	03/12/16	WV	n/a	n/a	VB4526
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Halogenated List

CAS No.	Compound	Result	PQL	MDL	Units	Q
75-27-4	Bromodichloromethane	0.24 U	1.0	0.24	ug/l	
75-25-2	Bromoform	0.46 U	1.0	0.46	ug/l	
56-23-5	Carbon Tetrachloride	0.30 U	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	0.20 U	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.63 U	2.0	0.63	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^a	1.0 U	5.0	1.0	ug/l	
67-66-3	Chloroform	0.30 U	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	0.26 U	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.27 U	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	0.24 U	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	0.39 U	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	0.26 U	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	0.28 U	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	0.22 U	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.31 U	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.33 U	1.0	0.33	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.64 U	2.0	0.64	ug/l	
78-87-5	1,2-Dichloropropane	0.34 U	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.26 U	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.25 U	1.0	0.25	ug/l	
74-83-9	Methyl Bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	0.50 U	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	2.0 U	5.0	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.33 U	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	0.33	1.0	0.30	ug/l	I
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	0.37 U	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	0.27 U	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.31 U	1.0	0.31	ug/l	

U = Not detected MDL = Method Detection Limit

PQL = Practical Quantitation Limit

L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-7		Date Sampled: 03/10/16
Lab Sample ID: FA32152-6		Date Received: 03/11/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: 8951 Bonita Beach Rd, Bonita Springs, FL		

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Result reported from HCl preserved sample and should be used for screening purposes only.

U = Not detected MDL = Method Detection Limit
 PQL = Practical Quantitation Limit
 L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
 V = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

37
3

Client Sample ID: MW-9	Date Sampled: 03/10/16
Lab Sample ID: FA32152-7	Date Received: 03/11/16
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: 8951 Bonita Beach Rd, Bonita Springs, FL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B112110.D	1	03/12/16	WV	n/a	n/a	VB4526
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Halogenated List

CAS No.	Compound	Result	PQL	MDL	Units	Q
75-27-4	Bromodichloromethane	0.24 U	1.0	0.24	ug/l	
75-25-2	Bromoform	0.46 U	1.0	0.46	ug/l	
56-23-5	Carbon Tetrachloride	0.30 U	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	0.20 U	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.63 U	2.0	0.63	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^a	1.0 U	5.0	1.0	ug/l	
67-66-3	Chloroform	0.30 U	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	0.26 U	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.27 U	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	0.24 U	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	0.39 U	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	0.26 U	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	0.28 U	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	0.22 U	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.31 U	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.33 U	1.0	0.33	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.64 U	2.0	0.64	ug/l	
78-87-5	1,2-Dichloropropane	0.34 U	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.26 U	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.25 U	1.0	0.25	ug/l	
74-83-9	Methyl Bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	0.50 U	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	2.0 U	5.0	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.33 U	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	0.30 U	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	0.37 U	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	0.27 U	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.31 U	1.0	0.31	ug/l	

U = Not detected MDL = Method Detection Limit I = Result >= MDL but < PQL J = Estimated value
 PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
 L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-9		Date Sampled: 03/10/16
Lab Sample ID: FA32152-7		Date Received: 03/11/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: 8951 Bonita Beach Rd, Bonita Springs, FL		

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Result reported from HCl preserved sample and should be used for screening purposes only.

U = Not detected MDL = Method Detection Limit
 PQL = Practical Quantitation Limit
 L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
 V = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DMW-2		Date Sampled: 03/10/16
Lab Sample ID: FA32152-8		Date Received: 03/11/16
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: 8951 Bonita Beach Rd, Bonita Springs, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B112111.D	1	03/12/16	WV	n/a	n/a	VB4526
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Halogenated List

CAS No.	Compound	Result	PQL	MDL	Units	Q
75-27-4	Bromodichloromethane	0.24 U	1.0	0.24	ug/l	
75-25-2	Bromoform	0.46 U	1.0	0.46	ug/l	
56-23-5	Carbon Tetrachloride	0.30 U	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	0.20 U	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.63 U	2.0	0.63	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether ^a	1.0 U	5.0	1.0	ug/l	
67-66-3	Chloroform	0.30 U	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	0.26 U	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.27 U	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	0.24 U	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	0.39 U	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	0.26 U	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	0.28 U	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	0.22 U	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	5.8	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	6.0	1.0	0.33	ug/l	
540-59-0	1,2-Dichloroethene (total)	11.8	2.0	0.64	ug/l	
78-87-5	1,2-Dichloropropane	0.34 U	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.26 U	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.25 U	1.0	0.25	ug/l	
74-83-9	Methyl Bromide	0.50 U	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	0.50 U	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	2.0 U	5.0	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.33 U	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	0.30 U	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	0.37 U	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	0.27 U	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.31 U	1.0	0.31	ug/l	

U = Not detected MDL = Method Detection Limit

PQL = Practical Quantitation Limit

L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DMW-2	
Lab Sample ID: FA32152-8	Date Sampled: 03/10/16
Matrix: AQ - Ground Water	Date Received: 03/11/16
Method: SW846 8260B	Percent Solids: n/a
Project: 8951 Bonita Beach Rd, Bonita Springs, FL	

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Result reported from HCl preserved sample and should be used for screening purposes only.

U = Not detected MDL = Method Detection Limit
 PQL = Practical Quantitation Limit
 L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
 V = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA32152 CLIENT: FBI CONSULTING PROJECT: BONITA SPRINGS
 DATE/TIME RECEIVED: 3-11-16 09:34 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER: _____
 AIRBILL NUMBERS: _____

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____
 NUMBER OF 5035 FIELD KITS ? _____
 NUMBER OF LAB FILTERED METALS ? _____
 TEST STRIP LOT#s pH 0-3 204413A pH 10-12 219813A OTHER (specify) _____

TEMPERATURE INFORMATION

- IR THERM ID 1 CORR. FACTOR +0.2
- OBSERVED TEMPS: 2.6
- CORRECTED TEMPS: 2.8 (USED FOR LIMS)

SAMPLE INFORMATION

- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- % SOLIDS JAR NOT RECEIVED
- RESIDUAL CHLORINE PRESENT LOT# _____

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE [Signature] 3-11-16 REVIEWER SIGNATURE/DATE [Signature] 3/11/16
 NF 11/15 receipt confirmation 111015.xls

4.1
4

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA32152
Account: EBIMAB EBI Consulting
Project: 8951 Bonita Beach Rd, Bonita Springs, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4526-MB	B112096.D	1	03/12/16	WV	n/a	n/a	VB4526

The QC reported here applies to the following samples:

Method: SW846 8260B

FA32152-1, FA32152-2, FA32152-3, FA32152-4, FA32152-5, FA32152-6, FA32152-7, FA32152-8

CAS No.	Compound	Result	RL	MDL	Units	Q
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
110-75-8	2-Chloroethyl Vinyl Ether	ND	5.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	0.64	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	101% 83-118%

Method Blank Summary

Job Number: FA32152
Account: EBIMAB EBI Consulting
Project: 8951 Bonita Beach Rd, Bonita Springs, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4526-MB	B112096.D	1	03/12/16	WV	n/a	n/a	VB4526

The QC reported here applies to the following samples:

Method: SW846 8260B

FA32152-1, FA32152-2, FA32152-3, FA32152-4, FA32152-5, FA32152-6, FA32152-7, FA32152-8

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4	100% 79-125%
2037-26-5	Toluene-D8	100% 85-112%
460-00-4	4-Bromofluorobenzene	102% 83-118%

5.1.1
5

Blank Spike Summary

Job Number: FA32152
Account: EBIMAB EBI Consulting
Project: 8951 Bonita Beach Rd, Bonita Springs, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4526-BS	B112095.D	1	03/12/16	WV	n/a	n/a	VB4526

The QC reported here applies to the following samples:

Method: SW846 8260B

FA32152-1, FA32152-2, FA32152-3, FA32152-4, FA32152-5, FA32152-6, FA32152-7, FA32152-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-27-4	Bromodichloromethane	25	25.5	102	79-123
75-25-2	Bromoform	25	24.6	98	66-123
56-23-5	Carbon Tetrachloride	25	26.3	105	76-136
108-90-7	Chlorobenzene	25	25.9	104	82-124
75-00-3	Chloroethane	25	27.7	111	62-144
110-75-8	2-Chloroethyl Vinyl Ether	125	128	102	56-122
67-66-3	Chloroform	25	25.5	102	80-124
124-48-1	Dibromochloromethane	25	26.1	104	78-122
75-71-8	Dichlorodifluoromethane	25	31.2	125	42-167
95-50-1	1,2-Dichlorobenzene	25	26.1	104	82-124
541-73-1	1,3-Dichlorobenzene	25	26.6	106	84-125
106-46-7	1,4-Dichlorobenzene	25	24.8	99	78-120
75-34-3	1,1-Dichloroethane	25	27.2	109	81-122
107-06-2	1,2-Dichloroethane	25	24.2	97	75-125
75-35-4	1,1-Dichloroethylene	25	27.5	110	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.7	103	78-120
156-60-5	trans-1,2-Dichloroethylene	25	28.0	112	76-127
540-59-0	1,2-Dichloroethene (total)	50	53.7	107	77-122
78-87-5	1,2-Dichloropropane	25	24.7	99	76-124
10061-01-5	cis-1,3-Dichloropropene	25	24.8	99	75-118
10061-02-6	trans-1,3-Dichloropropene	25	27.0	108	80-120
74-83-9	Methyl Bromide	25	31.2	125	59-143
74-87-3	Methyl Chloride	25	27.7	111	50-159
75-09-2	Methylene Chloride	25	27.2	109	69-135
79-34-5	1,1,2,2-Tetrachloroethane	25	23.2	93	72-120
127-18-4	Tetrachloroethylene	25	26.4	106	76-135
71-55-6	1,1,1-Trichloroethane	25	25.6	102	75-130
79-00-5	1,1,2-Trichloroethane	25	24.5	98	76-119
79-01-6	Trichloroethylene	25	25.4	102	81-126
75-69-4	Trichlorofluoromethane	25	26.2	105	71-156
75-01-4	Vinyl Chloride	25	28.6	114	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-118%

* = Outside of Control Limits.

5.2.1
 5

Blank Spike Summary

Job Number: FA32152
Account: EBIMAB EBI Consulting
Project: 8951 Bonita Beach Rd, Bonita Springs, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB4526-BS	B112095.D	1	03/12/16	WV	n/a	n/a	VB4526

The QC reported here applies to the following samples:

Method: SW846 8260B

FA32152-1, FA32152-2, FA32152-3, FA32152-4, FA32152-5, FA32152-6, FA32152-7, FA32152-8

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA32152
Account: EBIMAB EBI Consulting
Project: 8951 Bonita Beach Rd, Bonita Springs, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA32152-1MS	B112112.D	1	03/12/16	WV	n/a	n/a	VB4526
FA32152-1MSD	B112113.D	1	03/12/16	WV	n/a	n/a	VB4526
FA32152-1	B112104.D	1	03/12/16	WV	n/a	n/a	VB4526

The QC reported here applies to the following samples:

Method: SW846 8260B

FA32152-1, FA32152-2, FA32152-3, FA32152-4, FA32152-5, FA32152-6, FA32152-7, FA32152-8

CAS No.	Compound	FA32152-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-27-4	Bromodichloromethane	1.0 U	25	27.0	108	25	28.3	113	5	79-123/19
75-25-2	Bromoform	1.0 U	25	22.6	90	25	25.0	100	10	66-123/21
56-23-5	Carbon Tetrachloride	1.0 U	25	28.4	114	25	29.8	119	5	76-136/23
108-90-7	Chlorobenzene	1.0 U	25	27.3	109	25	29.5	118	8	82-124/14
75-00-3	Chloroethane	2.0 U	25	31.4	126	25	33.0	132	5	62-144/20
110-75-8	2-Chloroethyl Vinyl Ether	5.0 U	125	ND	0*	125	ND	0*	nc	56-122/23
67-66-3	Chloroform	1.0 U	25	27.2	109	25	30.8	123	12	80-124/15
124-48-1	Dibromochloromethane	1.0 U	25	25.7	103	25	26.8	107	4	78-122/19
75-71-8	Dichlorodifluoromethane	2.0 U	25	30.4	122	25	37.4	150	21*	42-167/19
95-50-1	1,2-Dichlorobenzene	1.0 U	25	26.7	107	25	30.0	120	12	82-124/14
541-73-1	1,3-Dichlorobenzene	1.0 U	25	26.7	107	25	28.9	116	8	84-125/14
106-46-7	1,4-Dichlorobenzene	1.0 U	25	25.6	102	25	28.5	114	11	78-120/15
75-34-3	1,1-Dichloroethane	1.0 U	25	29.2	117	25	32.4	130*	10	81-122/15
107-06-2	1,2-Dichloroethane	1.0 U	25	25.6	102	25	28.0	112	9	75-125/14
75-35-4	1,1-Dichloroethylene	1.0 U	25	29.3	117	25	33.9	136	15	78-137/18
156-59-2	cis-1,2-Dichloroethylene	1.0 U	25	26.7	107	25	29.5	118	10	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.0 U	25	30.3	121	25	34.1	136*	12	76-127/17
540-59-0	1,2-Dichloroethene (total)	2.0 U	50	57.0	114	50	63.6	127*	11	77-122/15
78-87-5	1,2-Dichloropropane	1.0 U	25	26.6	106	25	29.5	118	10	76-124/14
10061-01-5	cis-1,3-Dichloropropene	1.0 U	25	21.7	87	25	23.6	94	8	75-118/23
10061-02-6	trans-1,3-Dichloropropene	1.0 U	25	23.4	94	25	25.4	102	8	80-120/22
74-83-9	Methyl Bromide	2.0 U	25	35.2	141	25	36.6	146*	4	59-143/19
74-87-3	Methyl Chloride	2.0 U	25	31.3	125	25	34.0	136	8	50-159/19
75-09-2	Methylene Chloride	5.0 U	25	29.4	118	25	32.5	130	10	69-135/16
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	25	23.9	96	25	27.0	108	12	72-120/14
127-18-4	Tetrachloroethylene	1.0 U	25	28.1	112	25	29.2	117	4	76-135/16
71-55-6	1,1,1-Trichloroethane	1.0 U	25	27.2	109	25	30.8	123	12	75-130/16
79-00-5	1,1,2-Trichloroethane	1.0 U	25	25.2	101	25	28.4	114	12	76-119/14
79-01-6	Trichloroethylene	1.0 U	25	26.3	105	25	29.3	117	11	81-126/15
75-69-4	Trichlorofluoromethane	2.0 U	25	30.9	124	25	33.4	134	8	71-156/21
75-01-4	Vinyl Chloride	1.0 U	25	31.6	126	25	34.4	138	8	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FA32152-1	Limits
1868-53-7	Dibromofluoromethane	102%	104%	106%	83-118%

* = Outside of Control Limits.

5.3.1
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA32152
Account: EBIMAB EBI Consulting
Project: 8951 Bonita Beach Rd, Bonita Springs, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA32152-1MS	B112112.D	1	03/12/16	WV	n/a	n/a	VB4526
FA32152-1MSD	B112113.D	1	03/12/16	WV	n/a	n/a	VB4526
FA32152-1	B112104.D	1	03/12/16	WV	n/a	n/a	VB4526

The QC reported here applies to the following samples:

Method: SW846 8260B

FA32152-1, FA32152-2, FA32152-3, FA32152-4, FA32152-5, FA32152-6, FA32152-7, FA32152-8

CAS No.	Surrogate Recoveries	MS	MSD	FA32152-1	Limits
17060-07-0	1,2-Dichloroethane-D4	103%	101%	105%	79-125%
2037-26-5	Toluene-D8	99%	96%	104%	85-112%
460-00-4	4-Bromofluorobenzene	93%	96%	98%	83-118%

* = Outside of Control Limits.

5.3.1
 5

Well Sampling Reports

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: <u>Bonita Springs</u>	SITE LOCATION: <u>Bonita Springs, FL</u>
WELL NO: <u>MW-9</u>	SAMPLE ID: <u>MW-9</u> DATE: <u>3/10/16</u>

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): <u>0.17</u>	WELL SCREEN INTERVAL DEPTH: <u>3</u> feet to <u>13</u> feet	STATIC DEPTH TO WATER (feet): <u>4.36</u>	PURGE PUMP TYPE OR BAILER: <u>PP</u>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (<u>13</u> feet - <u>4.36</u> feet) X <u>0.16</u> gallons/foot = <u>1.38</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) <u>n/a</u> = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>5.0</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>5.0</u>	PURGING INITIATED AT: <u>1149</u>	PURGING ENDED AT: <u>1218</u>	TOTAL VOLUME PURGED (gallons): <u>2.90</u>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) <u>µmhos/cm</u> or <u>µS/cm</u>	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTU)	COLOR (describe)	ODOR (describe)
<u>1203</u>	<u>1.40</u>	<u>1.40</u>	<u>0.10</u>	<u>4.61</u>	<u>7.04</u>	<u>28.6</u>	<u>348</u>	<u>0.18/2.3</u>	<u>2.30</u>	<u>clear</u>	<u>none</u>
<u>1208</u>	<u>0.50</u>	<u>1.90</u>	<u>0.10</u>	<u>4.61</u>	<u>7.02</u>	<u>28.6</u>	<u>348</u>	<u>0.16/2.1</u>	<u>2.24</u>	<u>"</u>	<u>"</u>
<u>1213</u>	<u>0.50</u>	<u>2.40</u>	<u>0.10</u>	<u>4.61</u>	<u>6.98</u>	<u>28.6</u>	<u>349</u>	<u>0.15/1.9</u>	<u>2.14</u>	<u>"</u>	<u>"</u>
<u>1218</u>	<u>0.50</u>	<u>2.90</u>	<u>0.10</u>	<u>4.61</u>	<u>6.97</u>	<u>28.6</u>	<u>347</u>	<u>0.14/1.7</u>	<u>1.26</u>	<u>"</u>	<u>"</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Henry Tawny / Tech Support</u>				SAMPLER(S) SIGNATURE(S): <u>Henry Tawny</u>				SAMPLING INITIATED AT: <u>1218</u>		SAMPLING ENDED AT: <u>1221</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>5.0</u>				TUBING MATERIAL CODE: <u>HDPE/S</u>				FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N)		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> (N)				TUBING Y <input checked="" type="checkbox"/> (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<u>MW-9</u>	<u>3</u>	<u>CG</u>	<u>40mL</u>	<u>HCL</u>	<u>Lab</u>	<u>~2</u>	<u>8260 Chlor</u>		<u>APP</u>	<u>0.10 gpm</u>	
REMARKS: <u>82°F Partly Cloudy mod. Breeze</u>											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: <u>Bonita Springs</u>	SITE LOCATION: <u>Bonita Springs, FL</u>
WELL NO: <u>MW-7</u>	SAMPLE ID: <u>MW-7</u> DATE: <u>3/10/16</u>

PURGING DATA

WELL DIAMETER (inches): <u>2"</u>	TUBING DIAMETER (inches): <u>0.17"</u>	WELL SCREEN INTERVAL DEPTH: <u>2</u> feet to <u>12</u> feet	STATIC DEPTH TO WATER (feet): <u>4.44</u>	PURGE PUMP TYPE OR BAILER: <u>PP</u>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (<u>12</u> feet - <u>4.44</u> feet) X <u>0.16</u> gallons/foot = <u>1.20</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) <u>N/A</u> = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>5.0'</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>5.0'</u>	PURGING INITIATED AT: <u>1230</u>	PURGING ENDED AT: <u>1258</u>	TOTAL VOLUME PURGED (gallons): <u>2.80</u>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μ mhos/cm or μ S/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>1243</u>	<u>1.30</u>	<u>1.30</u>	<u>0.10</u>	<u>4.51</u>	<u>6.54</u>	<u>27.4</u>	<u>957</u>	<u>1.63/20.6</u>	<u>1.30</u>	<u>clear</u>	<u>none</u>
<u>1248</u>	<u>0.50</u>	<u>1.80</u>	<u>0.10</u>	<u>4.51</u>	<u>6.53</u>	<u>27.3</u>	<u>1000</u>	<u>1.37/17.3</u>	<u>0.72</u>	<u>"</u>	<u>"</u>
<u>1253</u>	<u>0.50</u>	<u>2.30</u>	<u>0.10</u>	<u>4.51</u>	<u>6.52</u>	<u>27.3</u>	<u>1003</u>	<u>1.30/16.3</u>	<u>0.79</u>	<u>"</u>	<u>"</u>
<u>1258</u>	<u>0.50</u>	<u>2.80</u>	<u>0.10</u>	<u>4.51</u>	<u>6.52</u>	<u>27.3</u>	<u>1009</u>	<u>1.19/15.0</u>	<u>0.73</u>	<u>"</u>	<u>"</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Henry Towns/Tech Support</u>			SAMPLER(S) SIGNATURE(S): <u>Henry Towns</u>			SAMPLING INITIATED AT: <u>1258</u>		SAMPLING ENDED AT: <u>1301</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>5.0'</u>			TUBING MATERIAL CODE: <u>HDPE/S</u>		FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N)		FILTER SIZE: _____ μ m		
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> (N)			TUBING Y <input checked="" type="checkbox"/> (replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>MW-7</u>	<u>3</u>	<u>CG</u>	<u>40ml</u>	<u>HCL</u>	<u>LAG</u>	<u><2</u>	<u>8260 Chlor</u>	<u>APP</u>	<u>0.10 gpm</u>
REMARKS: <u>82°F Partly Cloudy mod. Breeze</u>									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: <u>Bonita Springs</u>	SITE LOCATION: <u>Bonita Springs, FL</u>
WELL NO: <u>MW-10</u>	SAMPLE ID: <u>MW-10</u> DATE: <u>3/10/16</u>

PURGING DATA

WELL DIAMETER (inches): <u>2"</u>	TUBING DIAMETER (inches): <u>0.17"</u>	WELL SCREEN INTERVAL DEPTH: <u>2</u> feet to <u>12</u> feet	STATIC DEPTH TO WATER (feet): <u>2.68</u>	PURGE PUMP TYPE OR BAILER: <u>PP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= (12 \text{ feet} - 2.68 \text{ feet}) \times 0.16 \text{ gallons/foot} = 1.49 \text{ gallons}$				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $N/A = \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>3.0</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>3.0'</u>	PURGING INITIATED AT: <u>1603</u>	PURGING ENDED AT: <u>1633</u>	TOTAL VOLUME PURGED (gallons): <u>3.00</u>

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or (μS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1618	1.50	1.50	0.10	2.72	6.82	28.7	1395	1.85/24.0	0.08	clear	none
1623	0.50	2.00	0.10	2.72	6.82	28.5	1415	1.86/24.0	0.56	"	"
1628	0.50	2.50	0.10	2.72	6.82	28.5	1419	1.83/23.6	0.14	"	"
1633	0.50	3.00	0.10	2.72	6.81	28.5	1417	1.85/23.8	0.10	"	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Henry Towns / Tech Support</u>	SAMPLER(S) SIGNATURE(S): <u>Henry Towns</u>	SAMPLING INITIATED AT: <u>1633</u>	SAMPLING ENDED AT: <u>1636</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>3.0</u>	TUBING MATERIAL CODE: <u>HDPE/S</u>	FIELD-FILTERED: Y <input checked="" type="checkbox"/> Filtration Equipment Type: _____	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/>	TUBING Y <input checked="" type="checkbox"/> (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-10	3	CG	40mL	HCL	Lab	< 2	8260 Chlor	APP	0.10 gpm

REMARKS: 82°F Partly Cloudy mod. Breeze

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

