ATTACHMENT C

GENERAL SCOPE OF SERVICE REQUIREMENTS

INTRODUCTION:

This Invitation to Bid (ITB) is for assessing the horizontal and vertical extent of petroleum impacted soil and ground water as a result of a reported eligible discharge at facilities that are registered in one or more of the state petroleum remediation programs and are eligible for state funding.

The State of Florida, Department of Environmental Protection (DEP), requires Site Assessment activities to be performed at eligible petroleum contaminated sites, in accordance with Chapter 62-780, Florida Administrative Code (F.A.C.). This General Scope of Service Requirements includes the deliverable report requirements and supplemental guidance on what the DEP requires for a completed site assessment. The General Scope of Service Requirements describes the minimum work required, along with additional authorized services, if needed based on specific requirements. The term “additional authorized services” is defined as any service that is outlined in the General Scope of Service Requirements but completion of which is subject to data collected from the initial work performed. Each additional authorized service must be approved in writing (by email or hard copy unless specified otherwise in the proposed course of action as approved by DEP) before commencement. A separate comprehensive site assessment report, sealed by a qualified registered Professional Geologist or a qualified registered Professional Engineer as authorized by Chapters 492 or 471, Florida Statutes, is required for each site. All work must be performed in accordance with the General Scope of Service Requirements, Chapters 62-160, F.A.C. and 62-780, F.A.C., all applicable DEP and Water Management District guidance memoranda and all applicable federal, state and local requirements. Copies of all referenced guidelines are available on the DEP’s Internet Site at http://www.dep.state.fl.us/waste/categories/pcp/default.htm.

All safety requirements must conform to the OSHA Guidelines for Hazardous Waste Operations, 29 CFR Part 1910. The Health & Safety Plan (HASP) will be designed to protect the health and safety of local residents as well as selected contractor (Contractor) personnel and any subcontractors performing work at the site. A site-specific and comprehensive standard petroleum site HASP and all applicable field sign-up sheets must be available onsite for all field activities.

SPECIFIC SCOPE OF WORK:

The scope of work is to perform assessment activities at the eligible discharges at the sites listed in the attached List of Sites (Exhibit I) pursuant to Chapter 62-780, F.A.C. Prospective contractors may bid on any number of individual sites. A separate site specific Rate Sheet must be completed and submitted for each site. For the purpose of this solicitation, the Scope of Work for each individual site listed includes sixteen (16) soil borings, eight (8) monitoring wells, and other related assessment costs as outlined in the Rate Sheets. The amount of work that will be performed at each site is subject to change pending the DEP’s approval of the Contractor’s proposed course of action and assessment data as the work progresses. Once an MFMP Purchase Order (PO) is issued to the Contractor, the Contractor shall initiate the Tasks outlined in Attachment C Section T pursuant to the Project Schedule outlined in Attachment C Section U.

Due to the nature of site assessment activities, many of the tasks and/or activities described in this General Scope of Service Requirements may not need to be performed to complete the site assessment as determined as the work progresses and data is evaluated. Costs for the described scope of work shall be invoiced upon completion of all activities assigned by the DEP and acceptance of the deliverables by DEP as outlined in the Project Schedule section. No payment will be made for deliverables deemed unsatisfactory by the DEP. In the event that a deliverable is deemed unsatisfactory, the Contractor shall re-perform the services needed for submittal of a
satisfactory deliverable at no additional cost to the DEP. If the Contractor is unable to complete the work as described in this General Scope of Service Requirements satisfactorily, the DEP will not be responsible for payment for project services associated with a scheduled payment point when those services are deemed by DEP to be unsatisfactory.

GENERAL SCOPE OF WORK:

The Site Assessment activities include the following:

A. AFFIDAVITS

Prior to beginning any other work under the MFMP PO, with the exception of preparing the Health and Safety Plan and reviewing the permitting requirements, the Contractor must complete and submit the following forms to the DEP Site Manager: Contractor Affidavit, Subcontractor Affidavit(s), Responsible Party Affidavit(s), and Owner Affidavit(s) ( Exhibits II through V, respectively). Completion of this task is due within 28 calendar days of issuance of the MFMP PO to the Contractor.

B. FILE REVIEW

A file review of all applicable DEP records must be performed for the site. This review shall include reviewing all previous petroleum storage system closure, assessment, source removal, remedial action, and monitoring reports, discharge reporting forms, site inspection reports, and environmental audit information. These documents, along with other site information, may be viewed in the DEP’s on-line file system, Oculus, at http://depedms.dep.state.fl.us/Oculus/servlet/login under the relevant facility identification number. The DEP’s records for number and contents of previous and current tanks must also be reviewed using the DEP’s Storage Tank and Petroleum Contamination Monitoring (STCM) database. Current and (if applicable) historical aerial photographs must be examined to identify the current layout of the site and the locations of any former petroleum storage systems at the site. Reference sites available include Google® street and aerial maps, Bing® aerial maps, the DEP’s Geographic Information Services Map Direct, historical Florida Department of Transportation aerial photos, etc. If necessary, discussions shall be conducted with the site owner or responsible party to help identify the former locations of any petroleum storage systems at the site.

Included in this activity is the office labor for one (1) Middle Level Professional (MLP) or equivalent. See the list of labor categories located in Section S of this attachment.

Information obtained from the file review must be used to complete and submit the Historical Summary Worksheet within 28 days of issuance of the MFMP PO to the Contractor. Additionally, this file review shall be used to describe the site history as it relates to the former and current petroleum storage systems, reported discharge(s), and the program eligible source area(s) for the discharge(s), and shall be included in the comprehensive Template Site Assessment Report (TSAR) or other assessment report specified in this General Scope of Service Requirements.

C. PROPOSAL

Complete and submit a proposal to DEP recommending a proposed course of action in pursuit of a cost-effective and efficient assessment of the eligible discharge(s) pursuant to Chapter 62-780, F.A.C., based on site-specific conditions, including justification for the proposed course of action to be performed. This proposal must include details and maps documenting specific boring or well installation and/or sampling, including laboratory analytical methods, or other tasks recommended. The proposal must include a description of baseline activities and the criteria to be used during a field event to recommend, for DEP approval, the additional authorized services (such as step-out borings) to perform during the field event to foster cost-effective and efficient completion of activities.
The proposal must also include a discussion of a recommended communication plan with DEP to outline the phases of work to perform that require DEP approval. The proposed communication plan shall state which additional authorized services:

1) require expedited review and approval by DEP within 2 hours of the Contractor’s submittal of information to accommodate the availability of field staff and equipment; or

2) will be proposed in an Interim Report that allows a 14 day DEP review period.

Completion of this task is due within 28 calendar days of issuance of the MFMP PO to the Contractor.

Contractor

D. OFF-SITE ACCESS

Obtain off-site access to property (properties) other than eligible properties as necessary to complete the petroleum assessment. The agreement shall specify what work will be allowed and the duration of the agreement. The permission must be secured in writing and a copy of the agreement must be submitted to the DEP with the field notification for the relevant field event. A sample property access agreement is included in Exhibit VI. Additionally, a copy of the agreement must be included in the Templated Site Assessment Report (TSAR) or other specified report.

E. PERMITS

Various permits may be necessary to complete the petroleum assessment activities. Permits may include a Department of Transportation (DOT) or other regulating entity right of way access. Permits associated with monitoring well installation or abandonment may also be needed to complete the assessment activities.

The permit acquisition pay item is for the preparation of the necessary documentation to acquire the permits for right of way access needed for job completion. The permit acquisition pay item must not be used for the acquisition of monitoring well installation or abandonment permits. If well installation permits are required, the cost for the acquisition of well permits must be included as part of the monitoring well installation pay item. The actual cost of the permit fee shall be added by a Change Order to the MFMP PO and reimbursed under the Permit Fees pay item with the invoice(s) showing the actual cost.

A review of the permitting requirements shall be completed and the DEP notified of such requirements within 14 calendar days of issuance of the MFMP PO to the Contractor. All permits shall be submitted to the DEP Site Manager as an attachment in the final submitted report.

F. NOTICE OF FIELD ACTIVITIES

Notification for each field event specified in this General Scope of Service Requirements must be provided to all applicable persons (the site operator, site owner, responsible party, and off-site property owners), including the DEP, to ensure that the field work is coordinated. The field work notification must be received in writing (e-mails are acceptable) by all applicable persons and the DEP at least seven (7) calendar days prior to when the field work is to be performed. The exact day(s) of the proposed field work needs to be specified in the notification.

The cost for this pay item must be factored in when determining the unit cost for each field activity listed in this General Scope of Service Requirements.
G. MOBILIZATION

Mobilization includes the transportation of all personnel and equipment to and from the site associated with the site assessment activities including travel time for field personnel; costs for vehicle, fuel, oil, maintenance and repairs; loading and unloading of the vehicle/trailer; road/bridge tolls and fees; and all other costs associated with operating a vehicle/trailer and mobilizing to and from site. The DEP is not paying mobilization costs as a separate scope of service and the Contractor shall incorporate these costs into the various field task costs in the bid.

H. WELL SEARCH AND LOCAL AREA SURVEY

A well search and a local area survey are required to be completed if the cleanup target levels (CTLs) specified in Chapter 62-777, F.A.C., are exceeded for the site assessment activities listed in the DEP approved version of the proposal submitted by the Contractor as specified in this General Scope of Service Requirements. The definition of "subject site" in the context of this scope of services is the entire horizontal extent of the petroleum contaminated area, both on and off the facility (or former facility) property.

The well survey shall be conducted in accordance with Rule 62-780.600(3)(h), F.A.C., and Rule 62-780.600(5)(o), F.A.C., and needs to consist of locating all (potable, irrigational, and commercial/industrial) private water supply wells within a ¼ mile radius and all public water supply wells within a ½ mile radius of the subject site. All available records shall be checked (including those at the local Department of Health office and the Water Management District office), and a field reconnaissance of the area shall be conducted to complement those records.

The area use survey shall consist of a records search and a field reconnaissance to determine the land use within at least a one-block radius of the subject site. The survey shall identify all potential receptors, drainage features and surface water bodies, sensitive or protected habitats, current land use and zoning information, and potential off-site sources of contamination, including petroleum storage areas such as former and current gas stations and non-petroleum product sources such as former and current dry cleaners. The DEP facility identification number(s) will need to be provided for registered petroleum storage sites.

When authorized, the cost for this pay item is allowed once per site and shall include the office and field labor for one (1) MLP or equivalent, and all mobilization, equipment, and per diem costs.

The use and construction details of private and public supply wells identified during the well survey shall be reported on a table and a map needs to be prepared illustrating the locations of the private and public supply wells in relation to the subject site. If no information is found, provide documentation of “null” search. Field notes must be documented and submitted per the BPSS Field Notes Guidance dated April 25, 2012. A local vicinity map shall also be provided (see report requirements).

I. SOIL BORING COMPLETION

The placement and depth of the initial soil borings and the step-out intervals for additional soil borings shall be performed as specified in the DEP approved version of the proposal submitted by the Contractor as specified in this General Scope of Service Requirements. The Contractor and any drilling subcontractor must be prepared in the field to vary the depth of the soil borings based on the actual depth to water encountered during the field activities, following a discussion and written approval by the DEP.

Soil borings shall be completed to assess the magnitude and horizontal extent of the petroleum impacts to soil within the vadose zone and to determine the site-specific lithologies. Prior to the completion of any soil borings,
a utility markout must be requested by the Contractor to allow utility companies to mark out any underground lines. Soil borings can be completed manually with a hand auger or post hole digger, or using drilling rigs (direct push technology, hollow stem augers, or other drilling rig methods). Hand clearing of the first four (4) to five (5) feet shall be conducted at all soil boring locations to ensure damage is not done to any unmarked underground utility lines or petroleum underground distribution lines and tanks. Vacuum drilling methods to ensure a soil boring will not cause any damage to any underground lines or tanks are generally not allowable by the DEP if Organic Vapor Analyzer (OVA) and/or soil lab samples will be collected from the soil boring, and can only be used in limited cases only after approval from the DEP is obtained prior to the drilling event.


During the completion of all soil borings, lithologic descriptions and moisture content must be documented continuously to the total depth of the soil borings. OVA screening shall be performed at the depth intervals specified in Table 1 below using a Photoionization Detector (OVA-PID) or a Flame Ionization Detector (OVA-FID). The OVA-PID or OVA-FID must be calibrated in the field as specified in the DEP’s Standard Operating Procedures PCS-005 (Groundwater Sampling Standard Operating Procedures Variances and Clarifications for Bureau of Petroleum Storage System Sites).

<table>
<thead>
<tr>
<th>OVA Screening Interval</th>
<th>Maximum Interval Between OVA Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>≤ 4 feet</td>
<td>1 foot</td>
</tr>
<tr>
<td>&gt; 4 feet and ≤ 20 feet</td>
<td>2 feet</td>
</tr>
<tr>
<td>&gt; 20 feet</td>
<td>5 feet</td>
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</tbody>
</table>

The OVA screening and soil laboratory samples must be collected directly from coring devices (auger bucket, post-hole digger, direct-push liners, split-spoons, etc.) that minimize agitation of the soil and not from off of the hollow stem auger flights or from the drill cuttings. The laboratory soil samples must be collected from within the vadose zone (unless otherwise directed by the DEP’s) and the number of soil lab samples and the parameters to be analyzed for the soil lab samples are specified in this General Scope of Service Requirements.

When approved by the DEP, groundwater grab samples may be required to be collected from soil borings or using the groundwater sampling equipment of the direct push rig from selected soil boring locations. If these samples are for screening purposes only then the well does not have to be purged and sampled pursuant to FS-2200. The cost for this pay item must be provided on a per boring basis and must only include soil borings where wells are not being installed at those same locations. Included in the cost is the field labor for one (1) MLP and one (1) Upper Level Technician (ULT) or equivalents to these labor categories, and all equipment, materials, mobilizations, per diem costs, and drilling subcontractor costs. Excluded costs that must be built up separately include permits, off-site access, and the laboratory soil and groundwater analytical sample costs. Analytical costs shall be built up separately as outlined in Section N (Analyticals) of this Attachment.

The DEP’s Boring Log in effect at the date of this solicitation must be filled out in its entirety for each soil boring completed. A copy of the DEP’s boring log can be downloaded from the Petroleum Restoration Program website at [http://www.dep.state.fl.us/waste/categories/pcp/pages/pg_documents.htm](http://www.dep.state.fl.us/waste/categories/pcp/pages/pg_documents.htm). The DEP’s most up to date equipment calibration log (F9000-8) referenced in the DEP’s General Field Testing and Measurement Standard
Operating Procedures (DEP-SOP-001/01, FT 1000) will be used to document proper calibration of the OVA meter at the time of the soil boring completion event. In addition, the DEP’s most up to date chain of custody record [Form 62-780.900(3)] located at http://www.dep.state.fl.us/waste/categories/pcp/pages/pg_documents.htm will be used to document proper transport of the soil and/or groundwater grab samples obtained from the soil borings to the laboratory. Field notes must be documented and submitted per the BPSS Field Notes Guidance dated April 25, 2012.

J. MONITORING WELL INSTALLATION

The placement and depth of the initial monitoring wells and the step-out intervals for additional monitoring wells shall be performed as specified in the DEP approved version of the proposal submitted by the Contractor as specified in this General Scope of Service Requirements. The Contractor and any drilling subcontractor must be prepared in the field to vary the depth and placement of the well screen of the monitoring wells based on the actual depth to water encountered during the field activities, following a discussion and written approval by the DEP.

Monitoring well installation activities shall be conducted pursuant to the DEP’s September 1, 2001 Standard Operating Procedures PCS-003 “Complete Streamlined Assessment Procedures”, the DEP’s May 2, 2005 Standard Operating Procedures PCS-006 “Design, Installation, and Placement of Monitoring Wells”, the DEP’s Cleaning/Decontamination Procedures Standard Operating Procedures (DEP-SOP-001/01, FC 1000), and Rule 62-780.600, F.A.C.

All single-cased (or double- or multi-cased) monitoring wells need to be installed by a licensed well driller and installed with Schedule 40 PVC riser and screen. Acceptable methods of well installation include the use of direct-push rigs, hollow stem auger rigs, mud-rotary rigs, sonic rigs, or hand installation. The diameter of the well screen and riser shall be two (2) inches. If temporary monitoring wells are installed, the screened interval must intersect the water table and include a minimum of three (3) to five (5) feet of saturated screen. During the advancement of the boring for the monitoring well, lithology and moisture content must be recorded to the total depth of the well. OVA screening and soil lab samples shall be collected if required as approved by the DEP) as outlined above in Section I (Soil Boring Completions).

The cost for this pay item shall be provided on a per well basis. Included in the cost is the field labor for one (1) ULT and one (1) MLP, and all equipment, materials, mobilizations, per diem costs, drum(s) for IDW, and drilling subcontractor costs. If well installation permits are required, the cost for the acquisition of well permits must be included as part of the monitoring well installation pay item. Excluded costs that must be built up separately include right-of-way permits, off-site access, and the laboratory analytical costs. Analytical costs shall be built up separately as outlined in Section N (Analyticals) of this Attachment.

The DEP’s Boring Log and Well Construction and Development Log in effect at the date of this solicitation shall be filled out in its entirety for each monitoring well completed. A copy of the DEP’s boring log and well construction and development log can be downloaded at http://www.dep.state.fl.us/waste/categories/pcp/pages/pg_documents.htm. The DEP’s most up to date equipment calibration log (F9000-8) referenced in the DEP’s General Field Testing and Measurement Standard Operating Procedures (DEP-SOP-001/01, FT 1000) will be used to document proper calibration of the OVA meter at the time of the monitoring well completion event. In addition, the DEP’s most up to date chain of custody record [Form 62-780.900(3)] located at http://www.dep.state.fl.us/waste/categories/pcp/pages/pg_documents.htm will be used to document proper transport of the soil samples obtained from the monitoring well locations to the laboratory. The soil analytical results will be provided to the DEP in the final laboratory report and will also need to be summarized on the DEP’s soil analytical summary table. If SPLP testing is performed, then the SPLP results must be summarized on the groundwater analytical summary table. A copy of the DEP’s soil analytical summary table can be
The OVA readings will also need to be listed on an OVA screening summary table. Scaled site maps will need to be provided showing the locations of all of the monitoring wells and the horizontal extent of soil contamination based on the OVA screening and soil analytical results. Field notes must be documented and submitted per the BPSS Field Notes Guidance dated April 25, 2012.

K. TOP OF CASING ELEVATION SURVEY

The top of casing (TOC) elevations for the monitoring wells must be surveyed so the direction of groundwater flow can be determined for any initial or subsequent (conditional) well gauging field event. In order to allow time for the sand pack and grout seal to settle around the well screen and riser, the timing of the TOC survey must coincide with the groundwater sampling event instead of conducting the TOC elevation survey the same day of the well installation event. The TOC elevation must be taken from the north side of the casing and measured to the nearest 0.01 feet using an arbitrary datum (or using the National Geodetic Vertical Datum), and the location of the measuring point must be marked on the rim of the top of the monitoring well casing to allow for subsequent depth to water reading measurements to be taken on a consistent basis.

The cost for this pay item must be provided on a per well basis and must include surveying in the newly installed monitoring wells and (if required by the DEP approved version of the proposal submitted by the Contractor) any existing monitoring wells previously installed for the discharge(s). Included in the cost is the field labor for one (1) ULT and one (1) MLP, and all equipment, mobilizations, materials, and per diem costs.

Field notes must be documented and submitted per the BPSS Field Notes Guidance dated April 25, 2012. The top of casing elevations must be recorded on the groundwater elevation summary table of the report.

L. DEPTH TO WATER AND FREE PRODUCT GAUGING

The Contractor is responsible for locating in the field all monitoring wells previously installed for the discharge. If necessary, a metal detector and shovel should be used to locate any wells buried in any unpaved areas. Any wells unable to be located in the field will need to be listed on the groundwater elevation summary table as destroyed for the gauging event and the DEP must be notified in writing of what steps were taken in an attempt to locate the wells.

Any standing water in the manhole must be removed before opening the well cap and the well cap must be inspected to determine if the cap is providing an effective seal. If any of the well caps require replacing or if any of the manholes and well pads are damaged and represent a public safety concern, then the DEP must be notified. Allow a sufficient time to elapse after the well cap is removed before the water level in the well is gauged to allow the water in the well to equilibrate with atmospheric pressure. Depth to water (DTW) readings must be collected from the sampled wells as well as any additional wells specified in the DEP approved version of the proposal submitted by the Contractor from the top of casing elevation survey mark on the well casing (or from the north side of the well casing if a survey mark is not present) using a water level meter to the nearest 0.01 feet. For monitoring wells suspected of having free product, the free product thickness shall be measured using an interface probe or with a disposable bailer. The water level probe and interface probe must be properly decontaminated, pursuant to the DEP’s Cleaning/Decontamination Procedures Standard Operating Procedures (DEP-SOP-001/01, FC 1000), before use and in between each well that is gauged.

The cost for this pay item must be provided on a per well basis and must only include wells being gauged for DTW and free product and not being sampled for groundwater. Included in the cost is the field labor for one (1) ULT and all equipment, materials, mobilizations, and per diem costs.
Field notes must be documented and submitted per the BPSS Field Notes Guidance dated April 25, 2012. The depth to water and the thickness of the free product will be recorded on the groundwater elevation summary table of the report. A map will also be included in the report illustrating the direction of groundwater flow. Any other observations made during the field activity (such as the color of the free product) must be recorded in the report submitted to the DEP.

M. GROUNDWATER SAMPLING OF WELLS

Wells will be sampled in accordance with the DEP’s Groundwater Sampling Standard Operating Procedures (DEP-SOP-001/01, FS 2200) DEP’s Standard Operating Procedures PCS-005 “Groundwater Sampling Standard Operating Procedures Variances and Clarifications for Bureau of Petroleum Storage System Sites”. The groundwater samples will need to be analyzed for the groundwater analytical parameters specified in the DEP approved version of the proposal submitted by the Contractor as specified in this General Scope of Service Requirements. Prior to sampling a well, the procedures outlined above in Section L (Depth to Water and Free Product Gauging) shall be followed to obtain the DTW reading and determine (if applicable) if free product is present. A monitoring well that contains measurable (>0.01 feet) amounts of free product will not be sampled unless specifically authorized by the DEP. For water-table monitoring wells where the current water table is above the screened interval, approval to sample the well with the submerged screen must have been obtained from the DEP prior to the sampling event or the DEP must be contacted at the time of the groundwater sampling event and sampling of the well shall proceed only after written authorization is granted from the DEP. All equipment and materials (with the exception of wrapped tubing obtained directly from the manufacturer and will be disposed after its use for each well) in contact with the groundwater or the well must be properly decontaminated, pursuant to the DEP’s Cleaning/Decontamination Procedures Standard Operating Procedures (DEP-SOP-001/01, FC 1000), before use and in between each well that is sampled. All well purging meters (pH, temperature, conductivity, dissolved oxygen, and turbidity) must be properly calibrated, pursuant to the DEP’s General Field Testing and Measurement Standard Operating Procedures (DEP-SOP-001/01, FT 1000).

The cost for this pay item must be provided on a per well basis and must only include wells being sampled for groundwater and not wells just being gauged for DTW and free product. Included in the cost is the field labor for one (1) ULT and one (1) MLP, all equipment, materials, mobilizations, and per diem costs. Excluded costs include laboratory costs for the groundwater samples. Analytical costs shall be built up separately as outlined below in Section N (Analyticals).

The DEP’s most up to date groundwater log (F9000-24) referenced in the DEP’s Groundwater Sampling Standard Operating Procedures (DEP-SOP-001/01, FS 2200) will be used to document the purging and sampling activities for the well. The DEP’s most up to date chain of custody record [Form 62-780.900(3)] located at http://www.dep.state.fl.us/waste/categories/pcp/pages/pg_documents.htm will be used to document proper transport of the groundwater samples to the laboratory. In addition, the DEP’s most up to date equipment calibration log (F9000-8) referenced in the DEP’s General Field Testing and Measurement Standard Operating Procedures (DEP-SOP-001/01, FT 1000) will be used to document proper calibration of the well purging equipment meters at the time of the groundwater sampling event. Field notes must be documented and submitted per the BPSS Field Notes Guidance dated April 25, 2012.

N. ANALYTICALS

Laboratory analyses shall be performed in accordance with the requirements set forth in Chapter 62-160, F.A.C. In addition, all laboratories must hold certification from the Department of Health (DOH) Environmental Laboratory Certification Program (ELCP) using standards established by the National Environmental Laboratory Accreditation Conference (NELAP) as specified in Ch. 64E, F.A.C., for each matrix/test method/analyte combination. Certain exceptions apply and can be found in the February 17, 2007 Guidance Memo BPSS Enforcement of Laboratory NELAP Certification Requirements.
Groundwater samples are to be analyzed for the appropriate contaminants of concern (COCs) outlined in the DEP approved version of the proposal submitted by the Contractor as specified in this General Scope of Service Requirements. If the discharge resulted from the Gasoline or Kerosene Analytical Groups and the site is not anticipated to meet the No Further Action (NFA) Criteria of Rule 62-780.680, F.A.C., then at least one source area monitoring well must be analyzed for BTEX/MTBE, PAHs, TRPH, EDB, EDC, and total lead. For sites anticipated to meet the NFA Criteria of Rule 62-780.680, F.A.C., there are exception requirements outlined in Rule 62-780.600(4)(b), F.A.C., limiting the COCs to be analyzed. In addition, if leaded gasoline is known to have never been stored on-site based on information obtained during the file review and from the date of the discharge, then analysis for EDB, EDC, and total lead should not be performed. If the discharge resulted from used oil, then at least one source area monitoring well must be analyzed for all of the groundwater analytical parameters specified in Table D of Chapter 62-780, F.A.C. For sites where active remediation will be required following Site Assessment approval, a determination can be made at the time the Remedial Action Plan (RAP) is being prepared as to whether to analyze for any other COCs, such as volatile organic halocarbons (VOHs) for discharges resulting from the Gasoline or Kerosene Analytical Groups.

If the discharge resulted from the Gasoline or Kerosene Analytical Groups, then the soil lab samples must be analyzed for BTEX/MTBE, PAHs, and TRPH, unless stated otherwise in the DEP approved version of the proposal submitted by the Contractor as specified in this General Scope of Service Requirements. If the discharge resulted from used oil, then at least one soil lab sample obtained from within the source area must be analyzed for all of the soil analytical parameters specified in Table D of Chapter 62-780, F.A.C., unless stated otherwise in the DEP approved version of the proposal submitted by the Contractor as specified in this General Scope of Service Requirements.

When approved by DEP, extra soil lab sample material shall be collected by the Contractor in the field in case one or more of the soil lab samples will need to also be analyzed using Synthetic Precipitation Leaching Procedure (SPLP) extraction (EPA Method 1312) and analyses and/or for Total Recoverable Petroleum Hydrocarbons (TRPH) fractionation (Total Petroleum Hydrocarbon Criteria Working Group method or Massachusetts Department of Environmental Protection method). The SPLP extraction and analyses are for the volatile constituents, including benzene, toluene, ethylbenzene, total xylenes, and methyl-tert butyl ether (BTEX/MTBE), and/or the semi-volatile polynuclear aromatic hydrocarbons (PAHs). The volatile (BTEX/MTBE) SPLP subsamples must be collected using a 25 gram EnCore sampler and must be frozen by the laboratory within 48 hours of collection. SPLP extraction and analysis of the leachate shall be performed only if the standard soil analysis shows that at least one of the leachability-based soil Cleanup Target Levels (CTLs) is exceeded but the direct exposure residential soil CTLs are not exceeded. TRPH fractionation shall be performed only if the standard soil analysis (FL-PRO) shows that the leachability-based and/or the residential direct exposure TRPH soil CTLs are exceeded. The laboratory must be instructed on the chain of custody to hold the SPLP and/or TRPH fractionation samples until the standard soil tests are analyzed by the laboratory. Approval by the DEP is required before the laboratory is instructed by the Contractor to analyze the SPLP and/or TRPH fractionation samples.

The cost for the laboratory analytical pay items include all equipment, material, mobilizations, and labor costs for qualified laboratory personnel to perform analysis, no more than fourteen (14) day turnaround time (begins when laboratory receives samples), all Quality Assurance and Quality Control (QA/QC) protocols, cost for extraction, laboratory reports, and Contractor data review.

All analytical results will be provided to the DEP in the final laboratory report and will also need to be summarized on the DEP’s analytical summary tables. A copy of the DEP’s analytical summary tables can be downloaded at http://www.dep.state.fl.us/waste/categories/pcp/pages/pg_documents.htm.
O. PROFESSIONAL LAND SURVEY

If required as specified in the DEP approved version of the proposal submitted by the Contractor as specified in this General Scope of Service Requirements and with written approval from the DEP, a professional site survey shall be submitted in the paper copy of the report and electronically and consist of the following:

1. Designation of North direction.
2. The scale of the drawing (the scale must be written and represented as a bar scale).
3. The date of the field survey.
4. Sufficient legal description of the property or properties (plat number, lot number, etc.), and county.
5. The location of the property in relation to bordering roads and streets, neighboring properties and the locations of the property entrances from the roadway. Property owner’s name(s), business names and street addresses of adjoining properties must be marked on the site plan.
6. Approximate property boundaries and right-of-ways.
7. Accurate dimensions and locations of the foundation outlines of any existing structures on the subject property, including buildings, pump islands, tank areas, UST vents, septic drain fields and treatment systems.
8. Accurate dimensions and locations of the foundation outlines of any existing structures that establish a reasonably continuous and uniform construction line, including any permanent walls or fences.
9. Accurate location and elevation of top-of-casing for any existing monitoring wells or compliance wells, including on-site wells and any off-site wells, as identified by the Contractor or DEP, associated with the subject property (elevation may be referenced to an arbitrary datum).
10. Location and type of all surface cover materials, including asphalt, concrete, bare soil, vegetation, lawns and landscaping. All land cover in the impacted area(s) needs to be generically described.
11. Location and type of any surface features not covered above, including overhead and above ground utilities, fire hydrants, communication poles or boxes, transformer enclosures, well pumps and pump enclosures and free standing satellite dishes.
12. Location and dimensions of all major underground utilities or structures that are evidenced by manholes, fill port covers, monitoring point covers, significant visible pavement repairs or sawcuts (including remediation system piping trenches if visible), storm sewer grates and utility marking posts.
13. Accurate dimensions and locations of any surface features in the immediate (contiguous or adjacent) areas, including surface water bodies of any sort (canals, streams, creeks, rivers, pools, ponds, lakes, including storm water retention ponds), or surface relief (ditches, swales, berms, ravines, gullies, sinkholes).
14. The signature and seal of the surveyor who performed the survey.
15. Any other site-specific information required to make a complete site map.
16. The site plan shall be submitted in both paper and electronic format (typically Auto CADD).

When authorized, the cost for this pay item is allowed once per site and shall include the office and field labor for one (1) MLP or equivalent, mobilization, all equipment, and per diem costs.

Field notes must be documented and submitted per the BPSS Field Notes Guidance dated April 25, 2012. After a professional land survey has been performed, all subsequent site maps will be prepared using the survey map as the base site map illustrating the site assessment results. A paper copy and an electronic copy of the PLS shall be submitted to the DEP.

P. INVESTIGATIVE DERIVED WASTE

Investigative derived waste (IDW) such as drill cuttings, drilling mud generated during monitoring well installation, development water, and purge water shall be handled and disposed of such that contamination is not spread into previously uncontaminated or less contaminated areas. IDW must be disposed of in the most cost-effective manner. During the well installation event, the environmental consultant must make a determination as to whether the development water and the drill cuttings must be drummed for off-site disposal.

1. Development water or other petroleum contact water (PCW) shall be pumped slowly to a paved surface to allow for evaporation, as long as surface runoff to an unpaved area does not occur. The exceptions to pumping the development water to a paved surface are:

   a) If free product is detected at the water table interface during the installation of the well.

   b) Dissolved contaminants are suspected in the groundwater and there are no paved surfaces at the site. Discharging the development water in the unpaved source area would contaminate soil at the surface that has not been impacted by the petroleum discharge or would contaminate a different aquifer zone (e.g., a perched zone).

2. If soil analytical data have not been collected at a site, then the drill cuttings must be drummed, sampled for laboratory analyses, and disposed of off-site if the results indicate that SCTLs are exceeded. Soil cuttings must be placed in drums during the initial field event at a site, and future decisions about soil disposal will be based on laboratory data, with OVA correlations when possible. All soil must be screened with an OVA during the advancement of the boring for the well unless an exception has been agreed to by the DEP.

If IDW is disposed of at a permitted disposal facility, provide documentation to the DEP. If required by the disposal facility, collect a PCW sample and/or composite soil sample for laboratory analysis. Requests for additional mobilizations and/or additional time for purposes of coordinating soil disposal pick-up will not be allowed. Only the actual costs for IDW transport and treatment will be authorized. Contractor If hazardous waste is determined, DEP will coordinate the disposal.

Q. WELL ABANDONMENT

All monitoring wells of any diameter shall be abandoned by grouting from the bottom to the top of each well using the tremie method, removing the well pad and manhole, and patching the surface in accordance with the BPSS procedure PCS-006, Design, Installation, and Placement of Monitoring wells, DEP Rules 62-532.500(4), F.A.C., and Water Management District permit requirements.

The cost for this pay item must be provided on a per well basis and shall include field oversight of one (1) ULT, all equipment, materials, labor costs for a State of Florida licensed water well contractor, compaction of void, resurfacing area to match original material (e.g. pavement, concrete, sod, etc.) and disposal of well casing, well.
vault, and concrete pad. This pay item shall also include completion and submittal of all necessary paperwork and notification required by well permit, followed by completing the State of Florida Well Completion Report.

Field notes must be documented and submitted per the BPSS Field Notes Guidance dated April 25, 2012. All field activities shall be summarized in the Well Abandonment Report described in section R.4 below. Attachments for this report shall include photo documentation, field notes, permit(s), and well completion report(s).

R. REPORT PREPARATION

All Interim Deliverables and/or reports shall be delivered as electronic data retrievable from e-mail attachments or compact discs (CDs). Tables shall be in a format compatible with Microsoft Excel. Map data and engineering drawings shall be in a format compatible with AutoCAD. Report materials shall be in machine readable and retrievable form, and composed in a word processor program, which requires no more than an IBM or IBM compatible personal computer. Microsoft Word and Excel are the software programs currently in use by the DEP.

1. INTERIM REPORT. After completion of a field work event as approved by DEP, the Contractor shall provide to DEP by email an Interim Report which shall include, when applicable depending on the specific tasks performed and approved by DEP:
   a) Property access agreement(s) and/or Permit(s).
   b) A summary of work performed and conclusions,
   c) A site map showing the locations of all SBs and MWs.
   d) The data (DTW, OVA, groundwater analytical, soil analytical) in tabular format obtained during this task as well as any historical data pursuant to the description in the General Scope of Service Requirements (Attachment A) Section R.3.c).
   e) Soil and groundwater plume maps pursuant to the descriptions in the General Scope of Service Requirements (Attachment A) Section R.3.d(7) and R.3.d(8).
   f) Laboratory report(s) and chain(s) of custody for the field work conducted in this task.
   g) Groundwater sampling logs.
   h) Boring logs and well construction and development logs.
   i) Copy of field notes.
   j) Any other relevant documentation related to the field event for review and discussion,
   k) A recommendation as to additional services to be performed for the current or subsequent Task or field event.

The Contractor must receive written authorization from the DEP before proceeding with any additional authorized services. All authorized work not performed will need to be identified and the proposed cost adjustment will need to be provided. The Contractor will be responsible for sending one copy of each site assessment report to the site owner and/or the responsible party upon request.

2. TEMPLATE SITE ASSESSMENT REPORT. The Site Assessment Report will be prepared using the DEP’s Template Site Assessment Report (TSAR) format (Exhibit VII) and be submitted to the DEP electronically. Each report shall include comprehensive tabular summaries of all the soil OVA screening results, soil analytical results, groundwater elevation, and groundwater analytical results obtained at that site and all necessary site maps (submitted in the standardized formats), as described in the DEP’s October 29, 1998 “Guidance on Site Assessment and Supplemental Assessment Report Preparation for Petroleum Preapproval Sites.” These tabular summaries are to be cumulative, including data from previous investigations. Each applicable section of the TSAR, used to document the contamination assessment results, will be filled out in its entirety.
The TSAR will be submitted to the DEP in accordance with this General Scope of Service Requirements. In addition, the Contractor will be responsible for sending one copy of the TSAR to the site owner and/or the responsible party upon request.

The TSAR prepared for the site will include the following:

a) A description of the geologic and hydrogeologic characteristics of the area which might influence the migration or transport of the petroleum contamination. This information shall include summaries of all site-specific lithologic and hydrologic information obtained during soil assessment, groundwater sampling and slug testing (if applicable) and all site-specific information from previous investigations. If a drinking water resource aquifer is suspected of being impacted by the contamination, then information from applicable potentiometric surface maps and geologic publications from the appropriate Water Management Districts, the United States Geological Survey (USGS), and the Florida Geological Survey shall be summarized.

b) A description of all sampling procedures and well installation procedures.

c) The soil and/or groundwater analytical results will be provided to the DEP in the final laboratory report and will also need to be summarized on the DEP’s groundwater analytical summary table. If SPLP testing is performed, then the SPLP results must be summarized on the groundwater analytical summary table. A copy of the DEP’s groundwater analytical summary table can be downloaded at http://www.dep.state.fl.us/waste/categories/pcp/pages/pg_documents.htm. The OVA readings will also need to be listed on an OVA screening summary table. Scaled site maps will need to be provided showing the locations of all of the soil borings and the horizontal extent of soil contamination based on the OVA screening and soil analytical results.

Comprehensive tabular summary of the field soil OVA screening data including columns for the sample locations, sampling date, encountered depth to water, sample depth, unfiltered OVA readings, filtered OVA readings, and corrected hydrocarbon measurements. The current and historical soil laboratory analytical results shall be summarized in a separate table, which includes columns for the sampling locations, sampling date, corrected hydrocarbon measurements and then lists the analytical results for each analyzed constituent detected in separate columns, along with the applicable Soil Cleanup Target Levels (SCTLs).

Comprehensive tabular summary of the groundwater elevation data for each monitoring well including the diameter, well depth, screened intervals, top-of-casing elevation, date of obtained data, depths to groundwater, calculated groundwater elevation, and thickness of free product, where applicable. The current and historical groundwater laboratory analytical results including columns for the sampling locations, sampling date, and the analytical results for each analyzed constituent detected in separate columns, along with the applicable Groundwater Cleanup Target Levels (GCTLs).

d) The former well and boring locations (if available), current and former tank locations (if available), current land use, current site access constraints and location of all utilities are to be identified, for the field work and later incorporation into the site maps. If any of these locations are determined to be unavailable, the Contractor shall provide documentation that due diligence was followed to find the locations. This information will be supplemented with a professional land survey, where appropriate (see overall site assessment requirements). Figures one (1) through eight (8) shall be submitted as follows (hand drawn figures are not acceptable):

1) All of the site maps required to be included in the TSAR must be prepared by the Contractor and shall use the professional site survey map as the base map (if applicable), be drawn to scale, show
the north direction and have a detailed map legend (which includes a bar scale). Soil borings, monitoring wells and other assessment data that are added to the site after the professional land survey has been performed shall be added to the base map by the Contractor.

2) The site location illustrated on a USGS topographic map, which includes the quadrangle name and scale. This map can be combined with the well survey map (if applicable) where the well locations are marked and labeled and the ½ mile and the ¼ mile circles are drawn around the site.

3) A vicinity map illustrating the adjacent property usage within a one or two block radius of the subject site. The map shall include all potential off-site sources of contamination, including petroleum storage areas such as former and current gas stations and non-petroleum product sources such as former and current dry cleaners. The DEP facility identification numbers shall be provided for registered petroleum storage sites. Any private or public supply wells that are within the map area shall also be shown.

4) A site map that shows all monitoring wells, compliance wells and soil boring locations in relation to former and current tank areas, integral piping and dispensers, buildings, land cover, sidewalks, utilities (aboveground and underground), and any public or private supply wells present onsite. Property lines shall be indicated. Assessment data shall not be plotted on this map.

5) A groundwater elevation map with the estimated elevation contours and an interpretation of the groundwater flow direction. The water-level elevation calculated for each monitoring well, piezometer or compliance well shall be illustrated.

6) A lithologic cross-section at sites where lithologic information has been collected and where soil or groundwater contamination was detected. The screened intervals and the water levels in the monitoring wells and compliance wells shall be illustrated. Lithologic information from previous investigations shall be included (if available). If groundwater contamination is observed at depth (i.e., detected in any vertical extent well), then the vertical extent of the groundwater shall also be illustrated in cross-section.

7) If vadose zone soil contamination is present at the site, a soil screening map illustrating the horizontal extent of the contamination shall be prepared (with the highest corrected hydrocarbon measurement, with depth obtained, plotted at each soil sample location). The map shall illustrate the sampling locations in relation to the former and current tank areas, integral piping, dispensers and excavated areas (including the monitoring well locations where OVA data were collected). The locations where the laboratory soil samples were obtained shall also be indicated. Soil data from previous investigations shall be included.

8) A groundwater contamination map illustrating the degree of groundwater contamination at each well location. The petroleum constituents that must be illustrated on one map are Benzene, Ethylbenzene, Toluene, total Xylenes, Total VOAs, MTBE and Naphthalene. If PAHs other than Naphthalene are present above cleanup target levels, a separate map showing the individual contaminants and their concentrations shall be included. Any other analytes detected and non-petroleum constituents shall be plotted on another map. The sampling dates must be included with each set of analytical data. When available, historical concentration values for specific constituents must be listed on one map.

e) A summary of the sampling results, including a discussion of the probable source(s) of the contamination, an estimate of contaminant mass based on the highest contaminant concentrations detected and a recommendation for one of the following: No Further Action Proposal, Natural

1) A Professional Geologist (P.G.) or a qualified Professional Engineer (P.E.) certification is required to attest to the field work portion of the report. Please note that the professional certification is not required for the Site Assessment Summary Worksheet (Exhibit VIII).

2) Despite the site’s current score, make a determination if the site qualifies for Low-Scored Site Initiative No Further Action (LSSI NFA) as specified in Section 376.3071(11)(b).

3) Using all information available, provide recommended proposed courses of action and estimated costs to achieve Site Rehabilitation without conditions in accordance with Risk Management Options Level I (RMO I). A generalized breakdown of the costs must be provided which demonstrates how the total cost was reached. Include costs based on estimated method(s) of treatment and estimated time needed for each treatment. This information shall be entered on the Site Assessment Summary Worksheet under Site Rehabilitation Completion Order (SRCO).

4) Additionally, provide recommended proposed courses of action and estimated costs to achieve Site Rehabilitation with conditions in accordance with Risk Management Options Level II (RMO II). A generalized breakdown of the costs must be provided which demonstrates how the total cost was reached. Include cost based on estimated method(s) of treatment and estimated time needed for each treatment. This information shall be entered on the Site Assessment Summary Worksheet under No Further Action with Conditions (NFAC).

f) A description of methods used for identifying the contaminated soil and groundwater that required disposal (the Investigative Derived Waste) and the method of disposal.

g) Appendices for the TSAR shall include copies of the following:

   1) Soil Boring Logs.

   2) Well Construction and Development Logs.

   3) Well Completion Reports.

   4) Groundwater Sampling Logs.

   5) Field Instrument Calibration Logs.

   6) Chain(s) of Custody.

   7) Laboratory analytical reports.

   8) National Environmental Laboratory Accreditation Program (NELAP) certification.

   9) All disposal manifests and certificates of treatment or disposal.

10) When performed, a summary of the slug test data, including the estimated hydraulic conductivities at each slug test location, the average hydraulic conductivity across the site, the estimated thickness of the impacted aquifer(s), the estimated horizontal hydraulic gradient across the site and
the estimated transmissivity of the impacted aquifer. An example hydraulic conductivity calculation from slug test data from one of the wells tested shall also be provided.

11) Copies of off-site access agreements.

12) Contaminated soil and/or groundwater volume and contaminant mass calculations.

13) Copy of latest tightness test results.

14) Potable well construction data if available. If this data is determined to be unavailable, the Contractor shall provide documentation that due diligence was followed to find the data.

15) Chronology of field work performed.

16) Free Product recovery table(s).

3. SITE ASSESSMENT REPORT (OTHER REPORT TYPE). Where the TSAR is not appropriate a general Site Assessment Report may be requested. Components of the site assessment report will be detailed after the Contractor submits the proposal in Task 1 and shall confirm to the descriptions in the above TSAR requirements. The Post Site Assessment Summary and Recommendations page found in Section V of the TSAR shall be included in the submitted report. In addition, the Contractor will be responsible for sending one (1) copy of this report to the site owner and/or responsible party upon request.

4. WELL ABANDONMENT REPORT. This report is to provide written documentation and supporting information of the well abandonment activities. The report will include a summary of activities performed, a figure showing locations of the abandoned wells, field notes, copies of all permits, copies of each well abandonment form, and photo documentation of each well prior to and following completion of well abandonment. In addition, the Contractor will be responsible for sending one (1) copy of this report to the site owner and/or responsible party upon request.

S. LABOR CATEGORIES

1. UPPER LEVEL TECHNICIAN. A Upper Level Technician (ULT) must meet the following minimum qualifications: an associate’s degree in the field of science or engineering from an accredited college or university and five (5) years of technical experience, which must be in their area of expertise (completion of a two [2] year college level course of study may substitute for one year of experience).

2. MIDDLE LEVEL PROFESSIONAL. A Middle Level Professional (MLP) must meet the following minimum qualifications: a bachelor’s degree in the field of science or engineering from an accredited college or university and five (5) years of professional experience, three (3) of which must be in their area of expertise (a postgraduate degree may substitute for two [2] years of experience).

3. UPPER LEVEL PROFESSIONAL. A Upper Level Professional (ULP) must meet the following minimum qualifications: degree in Geology or Geoscience or Professional Geologist (PG) currently licensed in the State of Florida and in good standing with the Florida Board of Professional Geologists and five (5) years of experience performing environmental site investigations. A ULP shall have the education, degrees, abilities, and experience applicable to their position.
T. PROJECT TASKS- PERFORMANCE OF WORK

TASK 1: Prior to Conducting Task 2 and any field work, the Contractor must:

1. Completion of the following elements is due no later than 28 calendar days following the issuance of the MFMP PO.
   - Complete and submit all applicable affidavits found in Exhibits II - V.
   - Perform a thorough file review. Complete and submit the Historical Summary Worksheet.
   - Complete and submit a proposal to DEP as described in Section C above.
   - Review and notify the DEP in writing of all necessary permitting requirements.

2. The DEP will review the deliverable within 14 calendar days of receipt and will respond with either acceptance of or comments on the deliverable, including acceptance or comments on the proposed course of action to perform in Task 2. Upon DEP written acceptance of the deliverables described in this task, submit an invoice for the work conducted in Task 1.

TASK 2 (CONTINGENT UPON DEP APPROVAL): Written approval from the DEP must be granted before proceeding with Task 2. The DEP will not pay for unauthorized work.

1. Perform the course of action approved by DEP in Task 1.

2. In order to perform assessment activities in a cost-effective and efficient manner and to accommodate the availability of field staff and equipment, submit information and recommendations to the DEP for completion of additional authorized services (such as step-out borings) as appropriate based on data collected. Follow the communication plan as outlined in the proposal submitted as part of Task 1 (and approved by DEP) for an expeditious response from DEP when timely decisions are required to accommodate a field event.

3. When a field event has been completed, submit an Interim Report as outlined in this General Scope of Service Requirements Section R.1. to the DEP via e-mail with the results of Task 2.

4. The DEP will review the deliverable within 14 calendar days of receipt and will respond with either acceptance of or comments on the deliverable, including acceptance or comments on the proposed course of action to continue to perform in Task 2, or to perform Task 3. If no additional services are authorized by DEP for Task 2, then upon DEP written acceptance of the deliverables described in this task, submit an invoice for the work conducted in Task 2.

TASK 3 (CONTINGENT UPON DEP APPROVAL): A discussion must occur between the DEP and the Contractor to determine how the Contractor shall proceed with this task. Written approval from the DEP must be granted before proceeding with Task. The DEP will not pay for unauthorized work.

1. Prepare and submit a Template Site Assessment Report (TSAR) (Exhibit VII), including the Site Assessment Summary Worksheet (Exhibit VIII), pursuant to the description in this General Scope of Service Requirements Section R.2.

2. The DEP will review the deliverable within 14 calendar days of receipt and will respond with either acceptance of or comments on the deliverable. Upon DEP written acceptance of the deliverables described in this task, submit an invoice for the work conducted in Task 3.
U. PROJECT SCHEDULE – Upon Issuance of a MFMP PO by DEP to the Contractor:

The Contractor shall follow the schedule for the project for the items listed below.

1. MFMP Purchase Order issuance date: Day 1
2. Completion of Task 1 and delivery of all required affidavits, the Historical Summary Worksheet, proposal with recommended course of action, and the email to DEP regarding Permitting Needs: Day 29
3. DEP review and comments to the deliverables described in Task 1: Day 43
4. Submission of the invoice for Task 1: Day 47
5. If approved by DEP, Task 2 begin date: Day 47
6. Completion of Task 2 and delivery of the Interim Deliverable to the DEP: Day 168
7. DEP’s review and response to the Task 2 Interim Deliverable: Day 182
8. Submission of the invoice for Task 2: Day 187
9. If approved by DEP, Task 3 begin date: Day 187
10. Completion of Task 3 and delivery of the TSAR to the DEP: Day 287
11. DEP’s review and response to the Task 3 TSAR: Day 301
12. Submission of final invoice and Release of Claims form: Day 306
13. End date of MFMP Purchase Order: Day 310

It is understood that should the due date for a deliverable fall on a weekend or State observed holiday, the due date will be recognized as the next State business day. This recognition is for both the Contractor and the DEP in meeting the schedule described above.

If delays are encountered by the Contractor in the performance of this work due to the failure of the DEP in meeting the deadlines for reviewing and commenting on deliverables received, the MFMP Purchase Order may be modified to extend the schedule.

The MFMP Purchase Order issued for this project shall not exceed 310 calendar days from the original date of issuance unless otherwise amended by the DEP using the Change Order process within MFMP. If the Scope of Work described herein is modified for any reason, a revised MFMP Purchase Order documenting the authorized changes will be issued to the Contractor and will be recognized as the same MFMP Purchase Order with a “Version” identifier (V#). The original date of issuance of the MFMP Purchase Order will be used to track all deliverable due dates and completion points. However, the contractor is encouraged to complete all work expeditiously.

List of exhibits included as part of this Scope of Services:

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<td>II</td>
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I, (name of affiant), am (title of affiant), of (name of contractor business), hereinafter referred to as the “Contractor,” hereby swear to the following oath:

1. I am authorized to make the statements set forth in this affidavit on behalf of the Contractor.
2. Contractor has entered or is entering into a contract with the Department of Environmental Protection, hereinafter referred to as the “Department,” to furnish or cause to be furnished labor, materials, and services for the cleanup of the petroleum contaminated site (site name), located at (site address), (city), (county), Florida, as particularly set forth in said contract.
3. This affidavit is executed by the Contractor in accordance with Chapter 2013-41, Section 29, Laws of Florida.
4. Contractor has not solicited, offered, accepted, paid, or received any compensation, remuneration, or gift of any kind, directly or indirectly, in exchange for the designation or employment in connection with the cleanup of the petroleum contaminated site described above and in said contract.
5. Contractor has never paid, offered, or provided any compensation in exchange for being designated or hired to do cleanup work, except for compensation for the cleanup work.

By: (signature) Date: ___________________

(printed name of affiant)

-------- Notarization of Signature of Contractor (required) --------

STATE OF __________________
COUNTY OF ________________

Sworn to and subscribed before me this ____ day of ____________, 20 __, by (name of person making statement),

(Signature of Notary Public - State of _____)

(NOTARY SEAL)

(Name of Notary Typed, Printed, or Stamped)

Personally Known ____ OR Produced Identification ____
Type of Identification Produced _____________________
I, (name of affiant) am (title of affiant), of (name of subcontractor business), hereinafter referred to as the “Subcontractor,” hereby swear to the following oath:

1. I am authorized to make the statements set forth in this affidavit on behalf of the Subcontractor.

2. Subcontractor, pursuant to a contract with (name of general contractor), hereinafter referred to as the “Contractor,” is contracting or has contracted with the Contractor to furnish or cause to be furnished labor, materials, and services for the cleanup of the petroleum contaminated site (site name), located at (site address), (city), (county), Florida, as particularly set forth in said contract.

3. This affidavit is executed by the Subcontractor in accordance with Chapter 2013-41, Section 29, Laws of Florida.

4. Subcontractor has not solicited, offered, accepted, paid, or received any compensation, remuneration, or gift of any kind, directly or indirectly, in exchange for the designation or employment in connection with the cleanup of the petroleum contaminated site described above and in said contract.

5. Subcontractor has never paid, offered, or provided any compensation in exchange for being designated or hired to do cleanup work, except for compensation for the cleanup work.

By: (signature) Date:____________________

(printed name of affiant)

--------- Notarization of Signature of Subcontractor (required) ---------

STATE OF __________________
COUNTY OF ________________

Sworn to and subscribed before me this _____ day of ____________, 20 __, by (name of person making statement),

(Signature of Notary Public - State of ____)

(NOTARY SEAL)

(Name of Notary Typed, Printed, or Stamped)

Personally Known ____ OR Produced Identification ____
Type of Identification Produced _____________________
I, __________ (name of affiant) __________ am __________ (title of affiant) __________ of __________ (name of responsible party business-if applicable) __________, hereinafter referred to as the “Responsible Party,” which is the person responsible for site rehabilitation for the petroleum contaminated site __________ (site name) __________, located at __________ (site address) __________, __________ (city) __________, __________ (county) __________, Florida, hereby swear to the following under oath:

1. I am authorized to make the statements set forth in this affidavit on behalf of the Responsible Party.

2. The Department of Environmental Protection has entered or is entering into a contract with __________ (name of general contractor) __________, hereinafter referred to as the “Contractor,” to furnish or cause to be furnished labor, materials, and services for the cleanup of the petroleum contaminated site described above.

3. This affidavit is executed by the Responsible Party in accordance with Chapter 2013-41, Section 29, Laws of Florida.

4. Responsible Party has not solicited, offered, accepted, paid, or received any compensation, remuneration, or gift of any kind, directly or indirectly, in exchange for the designation or employment of the Contractor in connection with the cleanup of the petroleum contaminated site described above and in said contract.

By: __________ (signature) __________ Date: __________

________ (printed name of affiant)

-------- Notarization of Signature of Responsible Party (required) --------

STATE OF __________
COUNTY OF __________
Sworn to and subscribed before me this _____ day of __________, 20 ____, by __________ (name of person making statement) __________,

(Signature of Notary Public - State of __________)

(NOTARY SEAL)

(Name of Notary Typed, Printed, or Stamped)

Personally Known ____ OR Produced Identification ____
Type of Identification Produced ____________________
I, (name of affiant) am (title of affiant), of (name of real property owner business-if applicable), hereinafter referred to as the “Owner,” which is the owner of real property for the petroleum contaminated site (site name), located at (site address), (city) (county), Florida, hereby swear to the following under oath:

1. I am authorized to make the statements set forth in this affidavit on behalf of the Owner.

2. The Department of Environmental Protection has entered or is entering into a contract with (name of general contractor), hereinafter referred to as the “Contractor,” to furnish or cause to be furnished labor, materials, and services for the cleanup of the petroleum contaminated site described above.

3. This affidavit is executed by the Owner in accordance with Chapter 2013-41, Section 29, Laws of Florida.

4. Owner has not solicited, offered, accepted, paid, or received any compensation, remuneration, or gift of any kind, directly or indirectly, in exchange for the designation or employment of the Contractor in connection with the cleanup of the petroleum contaminated site described above and in said contract.

By: (signature) Date: ________________

(printed name of affiant)

------------ Notarization of Signature of Owner (required) -----------

STATE OF ___________________
COUNTY OF ___________________

Sworn to and subscribed before me this _____ day of ______________, 20 __, by (name of person making statement),

(Signature of Notary Public - State of _____________)

(NOTARY SEAL)

(Name of Notary Typed, Printed, or Stamped)

Personally Known ____ OR Produced Identification ____
Type of Identification Produced ________________________
EXHIBIT VI
OWNER/RP DESIGNATED PETROLEUM CLEAN UP CONTRACTOR ONLY – Below is a sample site access agreement written by an adjacent owner and an addition to address potential damage to installed cleanup related assets. Petroleum cleanup contractor or it’s client should create & use a standard form to begin negotiations. PETROLEUM CLEANUP CONTRACTORS ARE NOT REQUESTED OR REQUIRED TO USE THIS SAMPLE.

SAMPLE PROPERTY ACCESS AGREEMENT

This CONDITIONAL PROPERTY ACCESS AGREEMENT (the “Agreement”) is made as of the _____ day of ______________, by and between PROPERTY OWNER, a Florida company (“Owner”) having an address of ___________________Florida _______ and PETROLEUM CLEANUP CONTRACTOR, INC., a Florida corporation (“Consultant”) having an address of ____________________ Florida _________. {{Not unusual to include the name and address of the source property owner or petroleum cleanup contractor’s client.}}

RECITALS

WHEREAS, Owner owns the certain parcels of real property located at ________________________, Florida (the “Property”), depicted on the attached legal description as Exhibit “A”; and

NOW, THEREFORE, in consideration of the mutual agreements contained herein, and other valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Owner and Consultant hereby agree as follows:

1. **Grant of Access.** Owner hereby conditionally grants to Consultant, it’s agents, employees, consultants, contractors, and subcontractors (collectively “Consultant’s Agents”) a limited right of access to enter upon the Property for the sole purpose of installing groundwater monitoring wells, recovery wells, piping, etc. (hereby collectively referred to as monitoring wells) below the ground surface and collecting groundwater samples from the wells and make soil borings and taking soil samples from borings (the “Work”). Consultant shall cause the proper abandonment of the monitoring wells and restore the Property to the condition existing immediately prior to the commencement of the Work. Said work shall be at no cost to Owner.

2. **Duration and Termination of Access.** Conditional access shall be allowed upon the execution of this Agreement. This Agreement shall continue for twenty-four (24) months at which time it will expire unless extended in writing by Owner. In the event Consultant breaches any covenant or obligation under this Agreement and such breach is not cured to the reasonable satisfaction of Owner within five (5) days after receipt of notice thereof, Owner may terminate this Agreement and revoke the access granted herein upon delivery of notice to Consultant, and take all other action authorized by law or pursuant to this Agreement to remedy said breach.

3. **Covenants of Consultant.**

   a. The cost of the Work and related activities shall not be born by Owner. {{Not unusual to see that the costs are to be born by either Consultant or Consultant’s client/RP.}} Consultant shall obtain all licenses, approvals, certificates and permits for the performance of the Work. The Work undertaken at the Property shall be conducted in...
accordance with standards customarily employed in the industry and in an expeditious, safe and diligent manner. The Work shall be performed in accordance with all Environmental Laws (as defined below) and all applicable federal, state and local laws, ordinances, rules and regulations now in force and effect during the implementation and completion of the Work. By execution of this Agreement, Owner is not providing any consent or agreement to the Contamination (as defined below) or conditions at the Property, and Owner does not waive any rights or remedies in connection with any Contamination at the Property.

b. Consultant shall deliver notice to Owner at least seventy-two (72) hours’ prior to every entry onto the Property, which notice shall describe in reasonable detail the Work to be performed, its location on the Property, and an estimate of the duration of the Work. Access shall be scheduled by Owner at times convenient to Owner’s and Owner’s Tenants. Owner shall have the right to have a representative present and accompany Consultant on the Property during access events.

c. Consultant shall control the dust, noise and other effects of the Work and related activities using appropriate methods customarily utilized in order to control the deleterious effects thereof, to Owner’s satisfaction.

d. Consultant shall minimize any disruption or inconvenience caused by the Work and related activities to Owner, Owner’s business and residential operations and tenants, including but not limited to location of the groundwater monitoring wells and collection of the groundwater and soil samples. The Work shall not interfere with Owner’s or its tenants access to or egress from the Property.

e. Consultant shall perform the Work at locations which do not interfere with business or residential activities of Owner, its Tenants, vendors and employees during working hours.

f. Consultant shall allow Owner or its representatives to observe and monitor the performance of the Work. Owner shall have the right to obtain split samples to be provided by Consultant.

g. Consultant shall dispose of soil cuttings, any work materials and water generated during the Work in accordance with Environmental Laws and such soil cuttings and water shall be owned and controlled by Consultant as the generator of such materials. All soil cuttings, waste materials and development water generated during the Work shall be promptly removed from the Property.

h. Consultant shall repair any damage caused by the Work undertaken on the Property and restore the Property to the condition existing prior to the Work.

i. Pursuant to the provisions of Section 2 of this Agreement, Consultant shall permanently abandon the groundwater monitoring wells installed by Consultant on the Property in strict conformance with the requirements of the Water Management District. Consultant shall provide Owner a copy of the Well Abandonment Report confirming the proper abandonment of the groundwater monitoring wells.
4. **Covenants of the Property Owner.** Owner shall notify the Contractor in accordance with Section 9(f) of this agreement prior to commencement of any construction or other site work that may damage or destroy any part of the monitoring well(s) installed at the Property so that the Contractor has an opportunity to take necessary actions to remove, protect, properly abandon and/or repair or replace the well(s), as applicable, at no cost to the Owner. Such actions are necessary to ensure that damaged wells or borings are not left to act as open conduits that may spread contamination from all sources and violate well permits.

5. **Information Sharing.** Consultant shall provide Owner with all data collected by Consultant and Consultant’s Agents, including but not limited to laboratory analysis, chain of custody records, notes, and reports reflecting sampling and analysis resulting from the Work. Consultant and Consultant’s Agents shall provide such data to Owner by providing Owner a copy of the laboratory test results promptly upon receipt and a copy of the report submitted to the Agency, at no cost to Owner.

6. **Insurance.** Prior to commencing and at all times during the performance of the Work, Consultant shall maintain insurance (and shall cause their subcontractors to maintain) the following insurance coverage: Worker’s Compensation and Employer’s Liability Insurance at the statutory amount; Commercial General Liability (“CGL”) Insurance with combined single limits of One Million Dollars ($1,000,000.00) per occurrence and Two Million Dollars ($2,000,000.00) in the aggregate; Comprehensive Automobile Liability Insurance (owned, non-owned and hired) with a combined single limit of Five Hundred Thousand Dollars ($500,000.00); and Professional Errors and Omissions Insurance with limits of One Million Dollars ($1,000,000.00) per incident and in the aggregate. Owner shall be added as an additional insured to the CGL policy and such policy shall be considered primary insurance without recourse to or contribution from any similar insurance carried by Owner. The insurance certificate shall contain a provision that coverage afforded under the policy evidenced by such certificate will not be cancelled or changed without at least thirty (30) days prior written notice to the Owner. Consultant shall deliver certificates of insurance to Owner evidencing the existence of such policy prior to the commencement of any Work.

7. **Indemnity.** Consultant shall indemnify, hold harmless and defend Owner from and against any and all claims, demands, liabilities, causes of action, losses, costs, damages and expenses (including reasonable attorney’s fees and expenses and court costs) that may be asserted against or incurred by Owner in any way related to, caused by or arising out of or in connection with (i) the acts or omissions of Consultant or any agents of either of them in connection with the Work undertaken on the Property, (ii) violations or liens that may be filed against the Property as a result of the performance of the Work, (iii) personal injury, wrongful death, costs, expenses or property damage resulting from the performance of the Work or Contamination at the Property, and (iv) injunctive relief or other claims sought by any governmental authorities or third parties as a result of the Work or Contamination at the Property. Consultant shall not be required to indemnify Owner for claims, liabilities, damages, losses or expenses caused by wrongful acts or omission of Owner. The provisions of this paragraph shall survive the termination of this Agreement.

8. **No Admission.** The granting of the limited right of access herein by Owner is not intended, and shall not be construed, as an admission of liability on the part of Owner or the
Owner’s successors and assigns for any Contamination which may be discovered on the Property.

9. **Miscellaneous.**

   (a) **Entire Agreement.** This Agreement shall constitute the entire agreement between the parties regarding the conditional grant of access to Consultant for the purposes herein. No modification, amendment or waiver of the terms and conditions of this Agreement shall be binding upon Owner or Consultant unless approved in writing by an authorized representative of Owner and Consultant.

   (b) **Governing Law; Venue.** This Agreement shall be governed by and construed in accordance with the laws of the State of Florida. Venue for any action or proceeding arising from or relating to this Agreement shall be in the appropriate Florida court having jurisdiction located in Leon County, Florida.

   (c) **Severability.** Any provision of this Agreement that is prohibited or unenforceable shall be ineffective to the extent of such prohibition or unenforceability without invalidating the remaining provisions hereof.

   (d) **No Third Party Beneficiaries.** This Agreement is solely for the benefit of the parties hereto and their respective successors and assigns and shall not be deemed to confer upon third parties any remedy, claim, liability, or reimbursement, claim of action or other right.

   (e) **Representations.** Each of the parties hereto represents and warrants to the other that the party executing this Agreement has the authority to do so knowing that each of the other parties to this Agreement are acting in reliance upon such representation. The provisions of this Section shall survive the termination of this Agreement.

   (f) **Notices.** Any notice, demand, request, payment or other communication which any party hereto maybe required or may desire to give hereunder shall be in writing and shall be deemed to have been properly given (a) if hand received, (b) if received via United States mail service or other reliable express courier service, or (c) if sent via facsimile or e-mail to the addresses set forth below:

   
   
   **Notice to Owner:**

   With a copy to:

   **Notice to Consultant:**
IN WITNESS WHEREOF, the parties have executed this Property Access Agreement under the seal of the date first above written.

“OWNER”

By: ________________________________
Print Name: _________________________
As its:  Manager

“CONSULTANT”

By: ________________________________
Print Name: _________________________
As its:  _____________________________

EXHIBIT “A”
LEGAL DESCRIPTION OF PROPERTY
TEMPLATE SITE ASSESSMENT REPORT

[Signature Page]

DATE: __________________________
PO#/TA#/WO#: __________________________

Site FDEP Facility ID #: __________ Score: ______
Site Name: __________________________
Address: __________________________
City: __________________________
County: __________________________

Consultant Company: __________________________
Address: __________________________
City, State, Zip: __________________________
Consultant Rep.: __________________________
Phone #: __________________________

Responsible Party Name: __________________________
Address: __________________________
City, State, Zip: __________________________
Responsible Party Rep.: __________________________
Phone #: __________________________

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: __________________________
PE or PG License #: __________________________
Signature: __________________________
Date: _____________ FLORIDA Stamp or Seal

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TABLE OF CONTENTS

SECTIONS INCLUDED IN REPORT:

☐ List of Attachments

☐ SECTION I - Facility and Discharge Information/Initial Abatement
   Fill out this section for each site in the cluster.
   A) Site Description
   B) Petroleum System/Tank History
   C) Release Information
   D) Initial Abatement/Source Removal

☐ SECTION II - Background Site Assessment Information
   A) Receptor Investigation
   B) Previous Non-Closure Assessment
   C) Previous Remediation

☐ SECTION III - Recent Site Assessment Activities
   A) Soil Investigation
   B) Groundwater Investigation
   C) Free Product Investigation
   D) Comments

☐ SECTION IV - Impacted Media
   A) Lithologic Summary
   B) Hydrologic Summary
   C) Risk Evaluation

☐ SECTION V - Post Assessment Summary & Recommendations
   Fill out this section after site assessment has been completed.
   A) Site Assessment Summary
   B) Recommendations
   C) Comments

☐ SECTION VI - Program Issues (for state funded cleanup sites)
   A) Work Plan and Cost Summary

Appendices

(Appendix ID) (Appendix ID) (Contents)
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A Tables ---
B Figures ---

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**LIST of ATTACHMENTS**


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### FIGURES

**ATTACHED**  
Assessment Figures

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<th>FIGURE #</th>
<th>APPENDIX</th>
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<td>POTABLE WELL LOCATION MAP - A USGS quadrangle map illustrating all municipal/public and private supply wells located within 1/2 and 1/4 mile, respectively (respective radii illustrated)</td>
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<td>SOIL SAMPLING LOCATIONS - including data collected during monitoring well installation</td>
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</tr>
<tr>
<td>SOIL SCREENING DATA PLOTTED - including data collected from monitoring well installations. <strong>This map can include recommended soil boring locations</strong></td>
<td></td>
<td>B</td>
</tr>
<tr>
<td>GROUNDWATER SAMPLING LOCATIONS - including all monitoring well and direct push sampling locations</td>
<td></td>
<td>B</td>
</tr>
<tr>
<td>GROUNDWATER CONTAMINANT CONCENTRATIONS - Benzene, BTEX, MTBE &amp; Naphthalene concentrations plotted at each sampling point. <strong>This map can include recommended well locations</strong></td>
<td></td>
<td>B</td>
</tr>
<tr>
<td>GROUNDWATER ELEVATION CONTOUR MAP(S) - with flow interpretation for each impacted zone. <strong>Note, previous flow interpretations should be submitted when they are not consistent with the current flow interpretation(s)</strong></td>
<td></td>
<td>B</td>
</tr>
<tr>
<td>GROUNDWATER PLUME INTERPRETATION(S) - with contaminant isoconcentration contours plotted for each significant contaminant of concern (or total BTEX)</td>
<td></td>
<td>B</td>
</tr>
<tr>
<td>ESTIMATED FREE PRODUCT PLUME AREA - including thickness measured</td>
<td></td>
<td>B</td>
</tr>
<tr>
<td>GEOLOGIC/HYDROLOGIC CROSS-SECTION - including lithologic, well screen and depth to water fluctuation information</td>
<td></td>
<td>B</td>
</tr>
<tr>
<td>PROPOSED SOIL BORING AND MONITORING WELL LOCATIONS (if not illustrated in another figure)</td>
<td></td>
<td>B</td>
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<td>OTHER:</td>
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</tbody>
</table>
FIGURES (continued)

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Remediation Figures

<table>
<thead>
<tr>
<th>FIGURE #</th>
<th>APPENDIX</th>
</tr>
</thead>
<tbody>
<tr>
<td>REMEDIAL SYSTEM SITE LAYOUT - showing remedial system layout and locations of major system components (e.g., monitoring and recovery wells, system housing, effluent discharge, etc.)</td>
<td></td>
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<tr>
<td>REMEDIATION SYSTEM SCHEMATIC - showing treatment influent/effluent discharge, etc.</td>
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<td>OTHER:</td>
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MISC. ATTACHMENTS

ATTACHED

<table>
<thead>
<tr>
<th>APPENDIX</th>
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</thead>
<tbody>
<tr>
<td>LABORATORY ANALYTICAL REPORTS - including COCs required for all sampling</td>
</tr>
<tr>
<td>GROUNDWATER SAMPLING LOGS – form FD 9000-24 is required for all groundwater sampling</td>
</tr>
<tr>
<td>FIELD INSTRUMENT CALIBRATION RECORDS- form FD 9000-8 is required for all groundwater sampling</td>
</tr>
<tr>
<td>WELL CONSTRUCTION &amp; DEVELOPMENT LOGS recommend using Petroleum Cleanup Program forms</td>
</tr>
<tr>
<td>BORING LOGS recommend using Petroleum Cleanup Program forms</td>
</tr>
<tr>
<td>CONTAMINATED SOIL AND/OR GW VOLUME AND CONTAMINANT MASS CALCULATIONS</td>
</tr>
<tr>
<td>COPIES OF OFF-SITE ACCESS AGREEMENTS</td>
</tr>
<tr>
<td>COPY OF APPLICABLE WORK ORDER, PURCHASE ORDER, OR TASK ASSIGNMENT</td>
</tr>
<tr>
<td>COPY OF APPLICABLE CHANGE ORDERS</td>
</tr>
<tr>
<td>COPY OF DISPOSAL MANIFESTS - to document IDW soil and/or groundwater disposal</td>
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<tr>
<td>AQUIFER TEST CALCULATIONS</td>
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<tr>
<td>CHRONOLOGY OF FIELD WORK PERFORMED</td>
</tr>
<tr>
<td>Item</td>
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<tr>
<td>----------------------------------------------------------------------</td>
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<tr>
<td>COPY OF PREVIOUS REMEDIAL ACTION PLAN APPROVAL ORDER</td>
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<tr>
<td>COPY OF PREVIOUS SITE (OR CONTAMINATION) ASSESSMENT REPORT APPROVAL LETTER</td>
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<tr>
<td>OTHER:</td>
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<tr>
<td>OTHER:</td>
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<tr>
<td>ORIGINAL SIGNED AND SEALED PROFESSIONAL LAND SURVEY</td>
</tr>
<tr>
<td>ELECTRONIC COPY OF PROFESSIONAL LAND SURVEY</td>
</tr>
<tr>
<td>ELECTRONIC COPY OF TEMPLATE SITE ASSESSMENT REPORT</td>
</tr>
</tbody>
</table>
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.

Site map (Figure _________) illustrating all current & former tanks, lines and dispensers (including utilities, canopies, etc.) is included in Appendix ________
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.

<table>
<thead>
<tr>
<th>ID#</th>
<th>AST or UST</th>
<th>Size (gallons)</th>
<th>Installation Date</th>
<th>Contents (unleaded gasoline/diesel/etc.)</th>
<th>Status (active, removed or abandoned [in place])</th>
<th>Date Removed or Abandoned (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

-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.


Copy of tightness test results included in Appendix
I-B) Petroleum System/Tank History (continued)

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.

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.

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

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

I-C) Release Information

<table>
<thead>
<tr>
<th>Discovery Date(s)</th>
<th>Program Type(s): ATRP, EDI, PCPP, PLRIP or Non-program</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
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<td>2nd</td>
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<td>3rd</td>
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<td>4th</td>
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<td>5th</td>
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<td>6th</td>
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</tbody>
</table>

(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].)

- Suspected type(s) of product released:

☐ Leaded Gasoline  ☐ Diesel/Kerosene  ☐ Unleaded Gasoline

☐ Used Oil  ☐ Unknown  ☐ Other: ____________________________

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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.

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.

Approximate depth to water at time of excavation (if known) feet bgs
Approximate amount removed tons yds³ Date: 
Disposal method: 

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

[Blank space for input]

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.

[Blank space for input]

Approximate volume removed: ___ gallons Date(s): 

Disposal method: __________________________
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.

[Check box]  YES  NO  N/A

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.

[Check box]  YES  NO  N/A

Volume removed: _______ gallons  Date(s): _______
Disposal method: ___________________________________
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.

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
<th>Unknown</th>
</tr>
</thead>
</table>

Potable well survey map (Figure ______ ) is included in Appendix ______
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.

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
<th>Unknown</th>
</tr>
</thead>
</table>

Water well survey map (Figure ______ ) is included in Appendix ______
Water well construction summary (Table ______ ) is included in Appendix ______
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.

Area use survey map (Figure _____ ) is included in Appendix ____

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.
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.

**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?**

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).
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)

<table>
<thead>
<tr>
<th>Date of report</th>
<th>Title of report</th>
<th>Company that prepared report</th>
</tr>
</thead>
<tbody>
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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).

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

- Site map (Figure ______) illustrating sampling locations is included in Appendix ______
- Tabular summary of soil sampling results (Table ______) is included in Appendix ______
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. *The well descriptions can be omitted if the information is included in a current tabular summary.*

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

Tabular summary of well construction details (Table ________ ) is included in Appendix ________

**Has direct push (geoprobe) groundwater grab-sampling been 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.*

Site map (Figure ________ ) illustrating the groundwater sampling results is included in Appendix ________

Tabular summary of groundwater sampling results (Table ________ ) is included in Appendix ________
II-B) Previous Site Assessment (continued)

Was groundwater sampling performed? If yes, briefly describe what sampling was performed and summarize results. 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).

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
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Results included in current groundwater analytical summary table.

<table>
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<tr>
<th>YES</th>
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</table>

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

Has free product been observed in wells or excavations (not including tank and/or system closures)? If yes, please describe. 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).

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
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</table>

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 _____
II-B) Previous Site Assessment (continued)

Has the previous site assessment been approved by the FDEP (was a CAR or SAR approval letter issued?)

Date site assessment (or contamination assessment) was approved: 

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).

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.

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 ______

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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.

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:  

YES  ☐   NO  ☐
SECTION III - Recent Site Assessment Activities

III-A) Soil Investigation

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.

---

Date of last soil screening event (OVA data) with or without laboratory sampling: __________

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

Tabular summary of soil screening results (Table _________) is included in Appendix _________

Tabular summary of laboratory soil sampling results (Table _________) is included in Appendix _________

Soil sampling logs (for laboratory samples) are included in Appendix _________

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

**Required for all suspected GAG & KAG contaminated sites.**

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

**Required for all sites where Used Oil contamination is suspected.**

- [ ] Priority Pollutant Volatile Organics
- [ ] As, Cd, Cr, Pb
- [ ] TRPHs

---

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III-A) Soil Investigation (continued)

Was soil Investigative Derived Waste (IDW) generated?  
If yes, please describe method used for identifying soil needing disposal:

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
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</table>

[soil results]

Volume of contaminated soil disposed of: 
Disposal method: 

Was soil contamination above applicable Cleanup Target Levels identified above the water table?  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.

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
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Approximate volume of vadose zone soil contamination: 
Site map (Figure ) illustrating extent of soil contamination is included in Appendix 
Soil concentration summary (Table ) is included in Appendix 
Soil sampling logs (for laboratory samples) are included in Appendix 

DEP Solicitation No. 2014035C, Attachment C, Page 50 of 72
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.

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

**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.

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

Site map (Figure _________ ) illustrating the well locations is included in Appendix _________
Tabular summary of well construction details (Table _________ ) is included in Appendix _________
Monitoring well completion reports are included in Appendix _________

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.

Site map (Figure _________ ) illustrating the groundwater sampling results is included in Appendix _________
Tabular summary of groundwater sampling results (Table _________ ) is included in Appendix _________
III-B) Groundwater Investigation (continued)

Was groundwater sampling performed? If yes, please provide a brief discussion of groundwater purging and sampling methodology and identify the wells that were sampled. If no, please explain. *A description of the sampling results can be omitted if the information is illustrated in current contaminant plume maps and tabular summaries.*

If groundwater sampling not performed, indicate date of last sampling event (if applicable):

Indicate wells sampled on that date (if applicable):

Site map (Figure ________) illustrating the groundwater sampling results is included in Appendix ________

Tabular summary of groundwater sampling results (Table ________) is included in Appendix ________

Groundwater field sampling logs are included in Appendix ________

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

- Required for all suspected GAG/KAG sites:
  - BTEX/MTBE
  - PAHs
  - TRPHs
- Required for all contaminated GAG/KAG sites:
  - EDB
  - Lead (Pb)
  - VOHs
- Required for all suspected used oil (or unknown fuel type) contaminated sites:
  - Priority Pollutant Volatile Organics & Extractable Organics
  - As, Cd, Cr, Pb
  - TRPHs
III-B) Groundwater Investigation (continued)

Was groundwater IDW generated? If yes, please explain why disposal on-site was not possible.

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
</tr>
</thead>
</table>

Volume of contaminated groundwater disposed of: ___________ drums ___________ gallons

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.

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
</tr>
</thead>
</table>

Approximate volume of contaminated groundwater: ___________ gallons

Plume maps [Figure(s) ___________ ] illustrating extent of groundwater contamination is/are included in Appendix ________________
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.

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.

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

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.

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
<th>Unknown</th>
</tr>
</thead>
</table>

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

Were natural attenuation parameters data collected? If yes, please specify which parameters were collected (and where collected) and provide interpretation of results.

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
</table>

Site map (Figure ______ ) illustrating natural attenuation parameter data is included in Appendix ______

Tabular summary of parameter sampling results (Table ______ ) is included in Appendix ______
III-B) Groundwater Investigation (continued)

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.

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
<th>Unknown</th>
</tr>
</thead>
</table>

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.

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

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.

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
<th>Unknown</th>
</tr>
</thead>
</table>

Site map (Figure ______ ) illustrating potable well locations is included in Appendix ______
### 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.

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
</tr>
</thead>
</table>

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

Lithologic cross-section (Figure _______ ) is included in Appendix ________

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]. 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.

Site map illustrating proposed lithologic boring locations (Figure _______ ) is included in Appendix ________
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.]

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.]

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.

Site map(s) [Figure(s)___________] illustrating upper zone water table elevations and interpretation(s) of groundwater flow direction(s) is/are included in Appendix ________.

Tabular summary of all groundwater elevation data (Table ________) is included in Appendix ________.
IV-B) Hydrologic Summary (continued)

Have depth to groundwater and groundwater flow direction(s) in lower and/or intermediate aquifer(s) been determined?  
If yes, please indicate average depth to water and fluctuation range in vertical extent wells (low/high stand). If no, please explain.

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

Are perched aquifer conditions suspected? If yes, please indicate estimated depth and thickness of perched zone and whether perched zone extends across entire 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. If unknown, please indicate whether this issue is important at this site (outlining data collection plan if needed).

Site map(s) [Figure(s)_______ ] illustrating changes in flow direction is/are included in Appendix
IV-B) Hydrologic Summary (continued)

Is groundwater flow in the impacted aquifers being influenced by pumping from nearby water supply wells?  

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
<th>Unknown</th>
</tr>
</thead>
</table>

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).

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?  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.

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
</tr>
</thead>
</table>

Hydraulic gradient data and calculations included in Appendix ________

Have any aquifer tests been performed at the subject site?  

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
</table>

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.]

Aquifer test data and calculations included in Appendix ________
IV-B) Hydrologic Summary (continued)

<table>
<thead>
<tr>
<th>Depth to groundwater in upper zone water-table wells (ft)</th>
<th>to</th>
<th>Average (ft):</th>
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</table>

<table>
<thead>
<tr>
<th>Depth to groundwater in lower zone vertical extent wells (ft)</th>
<th>to</th>
<th>Average (ft):</th>
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</table>

<table>
<thead>
<tr>
<th>Observed maximum range of upper zone fluctuation (ft):</th>
<th>Tidally influenced?</th>
<th>Yes</th>
<th>No</th>
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</table>

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.
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 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 ☐
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?

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

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
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</table>

Monitoring Wells:

<table>
<thead>
<tr>
<th>Contaminants:</th>
<th>Frequency:</th>
<th>Duration:</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
</table>

Site map (Figure _______ ) illustrating proposed extent of excavation is included in Appendix _______
V-B) Recommendations (continued)

Is a Limited Scope Remedial Action Plan (LSRAP) needed?  
Yes ☐  No ☐

If yes, please provide reasons for performing limited remediation and briefly outline plan for remediation.

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?  
Yes ☐  No ☐

If yes, please provide reasons for continuing approved RA at the site and indicate proposed modifications.
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

**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).

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

Site map (Figure______) illustrating pilot test layout is included in Appendix______
V-C) Comments

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Duties</th>
<th>Dates On-Site (if applicable)</th>
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</tbody>
</table>

VI-A) Work Plan and Cost Summary

_Briefly summarize initial work plan._

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

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

 Copies of all authorization forms are included in Appendix
VI-A) Work Plan and Cost Summary (continued)

<table>
<thead>
<tr>
<th>Was any planned work not performed? If yes, please describe work not performed with reasons why not performed.</th>
</tr>
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<tbody>
<tr>
<td>YES</td>
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</table>

<table>
<thead>
<tr>
<th>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.</th>
</tr>
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<tbody>
<tr>
<td>YES</td>
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</tbody>
</table>

Copies of all needed subcontractor and/or materials invoices and draft change order cost template included in Appendix
**Site Assessment Summary Worksheet**

**FDEP FAC ID #:**

**Does Site Qualify for LTNAM:**

**Dominant Lithology Vadose Zone**
- First Lithology (USCS): 
- Second Lithology (USCS): 

**Dominant Lithology Saturated Zone**
- First Lithology (USCS): 
- Second Lithology (USCS): 

**Average Depth to Water:**

**Groundwater Flow Direction:**

**Recommended Technology for SRCO:**

**Combined Technology:**

**Consultant SRCO Cost Estimate:**

**Consultant NFAC Cost Estimate:**

<table>
<thead>
<tr>
<th>GW Contaminants (select one unless leachability &amp; direct exposure CTLs exceeded)</th>
<th>≤ GCTLs</th>
<th>≤ NADC</th>
<th>&gt; NADC</th>
<th>Not Analyzed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Ethylbenzene</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
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<tr>
<td>Total Xylenes</td>
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<tr>
<td>Naphthalene</td>
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<td>1-Methylnaphthalene</td>
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<tr>
<td>TRPHs</td>
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<tr>
<td>EDB</td>
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<tr>
<td>As</td>
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<tr>
<td>Pb</td>
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<tr>
<td>Other</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Soil Contaminants (select one unless leachability &amp; direct exposure CTLs exceeded)</th>
<th>No Soil Exceedences*</th>
<th>Exceeds Leachability</th>
<th>Exceeds Direct Exposure</th>
<th>Not Analyzed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Toluene</td>
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<td></td>
</tr>
<tr>
<td>Total Xylenes</td>
<td></td>
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<tr>
<td>MTBE</td>
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<tr>
<td>Naphthalene</td>
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<tr>
<td>1-Methylnaphthalene</td>
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<td>2-Methylnaphthalene</td>
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<td>TRPHs</td>
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<td>Pb</td>
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<tr>
<td>Other</td>
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</tbody>
</table>

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

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<table>
<thead>
<tr>
<th>Plume Characteristics</th>
<th>Groundwater</th>
<th>Soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shrinking or Stable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>On-site only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plume &lt;1/4 acre</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exclusion Zone Only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>In FDOT ROW only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>On State-Owned Land Only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organoleptic Exceedance only (&lt; HB CTLs)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DE Soil Exceedences above 2'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DE Soil Exceedences from 2' to 10'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DE Soil Exceedences below 10'</td>
<td></td>
<td></td>
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<tr>
<td>Free Product</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Site Qualifies for LSSI NFA (any score)**

DE = Direct Exposure CTLs; HB = Health Based