

## **EXCAVATION CORRECTIVE ACTION PLAN**

**FORMER PHILLIPS 66 - DELANEY PROPERTY  
3659 AIRPORT BOULEVARD  
MOBILE, MOBILE COUNTY, ALABAMA**

**FACILITY I.D. NO. 13901-092-014477  
UST INCIDENT NO.: UST97-10-09**

*Submitted To*

**Alabama Department of Environmental Management  
Post Office Box 301463  
Montgomery, Alabama 36130  
Attention: Mr. Joe Pearson**

*Prepared For*

**Commerce Group on Behalf of Port Oil  
1280 West Newport Center Drive  
Deerfield Beach, Florida 33442**

*Prepared By*

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**April 2023**

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**CERTIFICATION PAGE**

*I certify under penalty of law that this Corrective Action Plan and all plans, figures, and technical data submitted within were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiring of the person or persons who directly gathered the enclosed information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information.*

Louis M. Montgomery, P.E.  
Regulatory Compliance Director

Alabama Registered Professional Engineer No.: 20195



  
Date 25-4-23

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# 1 UST RELEASE FACT SHEET & CLASSIFICATION FORM

**GENERAL INFORMATION:**

SITE NAME: Former Phillips 66 - Delaney Property

ADDRESS: 3659 Airport Boulevard, Mobile County, Alabama

FACILITY I.D.NO.: 1 3 9 0 1 - 0 9 2 - 0 1 4 4 7 7

UST INCIDENT NO.: U S T 9 7 - 1 0 - 0 9

**RESULTS OF EXPOSURE ASSESSMENT:**

How many private drinking water wells are located within 1,000 ft. of site?	None
How many public water supply wells are located within 1 mile of the site?	None
Have any drinking water supply wells been impacted by contamination from this release?	No
Is there an imminent threat of contamination to any drinking water wells?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Have vapors or contaminated groundwater posed a threat to the public?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are any underground utilities impacted or imminently threatened by the release?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Have surface waters been impacted by the release?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an imminent threat of contamination to surface waters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the type of surrounding population?	Residential/Commercial

**CONTAMINATION DESCRIPTION:**

<b>Type of contamination at site:</b> <input checked="" type="checkbox"/> Gasoline, <input type="checkbox"/> Diesel, <input type="checkbox"/> Waste Oil <input type="checkbox"/> Kerosene, <input type="checkbox"/> Other
<b>Free product present in wells?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Maximum thickness measured:</b> N/A
<b>Maximum BTEX concentration measured in soil:</b> 9.28 mg/kg (SB 4-2, 4/02)
<b>Maximum BTEX concentrations measured in groundwater:</b> 82,900 µg/L (MW-9, 8/03)

ADEM UST Form - 001 (04/22/93)

## **2 INTRODUCTION**

Bhate Environmental Associates, Inc., (Bhate) has prepared this Excavation Corrective Action Plan (CAP) to address remediation of gasoline contamination in soil and groundwater at the Former Phillips 66 – Delaney Property in Mobile, Alabama. The Alabama Department of Environmental Management (ADEM) requested an Excavation CAP for the site in a letter dated March 22, 2023. The following CAP addresses soil source removal by excavation followed by monitoring of constituents of concern in groundwater.

### **2.1 Site Location and Description**

The Phillips 66-Delaney Property (subject site) is in the northeast ¼ of Section 25, Township 4 South, Range 2 West, Mobile County, Alabama. More specifically, the site is located at 3659 Airport Boulevard, Mobile, Alabama (Figure 1). Based on historical review, the site was formerly occupied by a service station that operated three gasoline underground storage tanks (USTs) and one waste oil UST. The site was redeveloped in the fall of 2010 as retail space (Figure 2).

### **2.2 Background and Summary of Previous Investigations**

Southern Earth Sciences, Inc., installed one groundwater monitoring well near the USTs, in the northwest portion of the site and collected a groundwater sample in November 1995. An elevated concentration of benzene (0.340 milligrams per liter [mg/L]) was detected in the sample. This concentration exceeded the Alabama Department of Environmental Management (ADEM) Initial Screening Level (ISL) of 0.005 mg/L.

Bhate completed a Phase II Environmental Site Assessment (ESA) in September 1998. Soil samples were collected at seven locations around the site with a Geoprobe sampling system. Samples were analyzed for Total Petroleum Hydrocarbons (TPH) by U.S. Environmental Protection Agency (EPA) Test Method 418.1. Three of these samples exceeded the ADEM maximum contaminant level (MCL) of 100 parts per million (ppm) for TPH. Bhate also installed and sampled 10 temporary groundwater monitoring wells. Samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl-tertiary butyl ether (MTBE) by EPA Test Method 624. Groundwater samples collected northwest and northeast of the UST tank pit area contained elevated concentrations of BTEX. A maximum benzene concentration of 24.0 mg/L was detected northwest of the USTs.

In preparation for property development, the Commerce Group and Delaney Development, Inc., removed three 6,000-gallon gasoline USTs and one 550-gallon waste oil UST from the site in December 1999. Approximately 370 cubic yards of soil were removed from the tank pit and stockpiled on the site pending disposal. After review of the UST closure report, ADEM issued a Notice of Requirement to conduct further investigations at the site. Costs prepared by Bhate for a Preliminary Investigation were approved under the Alabama UST Trust Fund on August 10, 2000. However, the Preliminary Investigation was not performed because site development had not been completed, causing the one-year timeframe for the Cost Proposal to expire. Bhate submitted Cost Proposals #3 and #4 to conduct a Secondary Investigation in October of 2001. Authorization to implement Phase 1 of the Secondary Investigation Plan (cost proposal #3) was approved by ADEM on December 12, 2001.

In April of 2002, Bhate executed the soil and groundwater sampling program outlined in Cost Proposal #3, which included using direct push (Geoprobe) technology for sample recovery. Soil samples were collected at 12 locations around the former UST tank pit and dispenser piping. Groundwater sampling was performed using a Screen Point 15 sampling device at 12 shallow (7 to 14 feet below ground surface [ft bgs]) and two deep (20 to 24 ft bgs) locations to evaluate the lateral and vertical extent of groundwater contamination. Groundwater samples were analyzed on site using a mobile laboratory.

Analysis of soil and groundwater samples collected during the April 2002 event indicated that soils in the northwest quadrant of the site contained elevated levels of BTEX compounds. An area of impacted soil and groundwater was delineated from the former UST area, extending north beyond the northern property boundary, beneath the Airport Boulevard Service Road, and east to the former location of the pump islands. Impacted soil and groundwater was also delineated to the west, beneath Winsor Place Drive, which extends along the western property boundary of the subject site. Elevated concentrations of BTEX compounds were detected in the deeper groundwater sampling locations as well. Also, free product was observed in wells installed in the area of the former UST location.

Cost Proposal #4, to conduct Phase 2 of the Secondary Investigation, was approved on July 14, 2002. The proposal detailed a second phase of the Secondary Investigation that would further delineate petroleum impacts to soil and groundwater in the area of the site. This phase of the investigation included soil sampling and Type II and Type III groundwater monitoring well installations (MW-1 through MW-10 and DW-1) in selected locations in and around the subject site property. The second phase of this investigation was completed in September 2002.

A total of seven groundwater monitoring events were conducted from October 2002 to February 2005. MW-8, MW-9, and MW-10 were consistently found to contain elevated levels of BTEX or free product.

In February 2003, ADEM requested two 8-hour multi-phase extraction (MEME) events followed by groundwater sampling. Bhate conducted the first MEME event on March 27, 2003, followed by the April 2003 groundwater sampling event. The second MEME event was conducted on July 2, 2003, and was followed by the August 2003 groundwater sampling event.

In June 2005, a Tier 1/Tier 2 Alabama Risk Based Corrective Action (ARBCA) Evaluation was prepared for the site. The ARBCA established site specific target levels (SSTLs) for constituents of concern at the site and recommended preparation of a Corrective Action Plan (CAP) for the site. Preparation of a CAP was approved by ADEM in a letter dated May 5, 2005. The CAP was prepared by Bhate and submitted to ADEM in December 2005. The proposed remediation method was In-Situ Chemical Oxidation (ISCO) using hydrogen peroxide. ADEM approved Cost Proposal #15, which was included in the CAP, in a letter dated April 6, 2006. Cost Proposal #15 included costs associated with groundwater monitoring and preparation of an Underground Injection Control (UIC) permit application. The UIC permit application was submitted on October 21, 2006, and approved by ADEM in January 2007.

Additional Cost Proposals included in the CAP are listed below:

- Cost Proposal #16 – Injection point installation and bench scale testing
- Cost Proposal #17 – Peroxide injection and report preparation
- Cost Proposals #18 through #21 – Quarterly Sampling

Cost Proposals #16 through #20 were approved by ADEM in December 2007. Cost Proposal #21, which covered a groundwater monitoring event was not approved. The groundwater sampling associated with Cost Proposal #18 was conducted in January 2008 prior to the ISCO injection, as requested by ADEM. The installation of 40 injection points (Cost Proposal #16) and ISCO Injection (Cost Proposal #17) were conducted in March 2008. Groundwater sampling was then conducted approximately one month following the ISCO injection process. A second ISCO event (Cost Proposal #22) was conducted in June 2008 followed by groundwater sampling in July 2008 (Cost Proposal #20). The injection points and monitoring wells MW-1, MW-2, MW-9, and MW-10 were then abandoned in July 2008 under Cost Proposal #23.

Based on the ISCO results, Bhate recommended soil source excavation and submitted Cost Proposal #24 to cover soil excavation and disposal costs. ADEM approved the soil excavation in a letter dated September 29, 2008, and the soil excavation was completed in October 2008. Cost Proposals #25, #26, #27, and #28 were submitted to ADEM in the soil excavation report to cover costs associated with continued groundwater monitoring. ADEM approved only Cost Proposal #25 in a letter dated March 27, 2009. A report summarizing the groundwater sampling associated with Cost Proposal #25 was submitted to ADEM in April 2009.

ADEM requested additional groundwater monitoring events in a letter dated November 16, 2009. Bhate prepared the scope of work and Cost Proposals #30, #31, and #32 for three additional groundwater monitoring events, which were submitted to ADEM on January 15, 2010.

The old service station was demolished and a new office building and parking lot was constructed at the site during the summer of 2010. ADEM requested that two new monitoring wells be installed to define background conditions after completion of the new office building. Additional soil borings were also requested to help determine if impacted soils were present following the soil excavation conducted in October 2008. Bhate prepared Cost Proposal #33 for the additional wells and soil borings which was approved by ADEM in a letter dated August 18, 2010.

Upon mobilization to the site on September 14, 2010, Bhate discovered that on-site monitoring wells including MW-3, MW-8, MW-11, MW-12, and DW-1 had been paved over during the new building construction. Bhate immediately submitted an addendum to Cost Proposal #33 for well replacement. ADEM approved installation of eight replacement monitoring wells on September 21, 2010. A report summarizing the results of the additional soil sampling, well installation, and groundwater sampling activities conducted under Cost Proposal #33 was submitted to ADEM in November 2010. New Groundwater Resource Protection Target Levels (GRPTLs) were also calculated for each of the new monitoring wells.

Groundwater monitoring has continued since completion of the replacement wells following site redevelopment. The sampling events proposed in Cost Proposals #34, #35, and #36 were approved by ADEM in letters dated February 28, 2012.

In a letter dated April 25, 2012, ADEM requested that recovery wells be installed near existing well MW-19 and two MEME events be conducted. Bhate submitted Cost Proposals #37 and #38 which included costs associated with installation of three recovery wells, groundwater sampling, and two 8-hour MEME events. A MEME event was conducted at the site in October

2012 followed by groundwater sampling in November 2012 under Cost Proposal #37. An April 2013 groundwater sampling and MEME event were conducted under Cost Proposal #38.

In June 2013, Bhate submitted Cost Proposals #39 through #41 to ADEM to continue MEME events and groundwater monitoring. ADEM approved the cost proposals in letters dated August 26, 2013. The groundwater sampling and MEME events associated with Cost Proposals #39 through #41 were conducted from November 2013 through July 2014.

Bhate submitted to ADEM Cost Proposals #42 through #45 to continue MEME events and groundwater monitoring in December 2014. ADEM approved the cost proposals in letters dated January 8, 2015. The MEME and sampling events associated with Cost Proposals #42 through 45 were conducted from April 2015 to January 2016.

Additional MEME events and groundwater sampling were requested by ADEM in a letter dated December 3, 2015. Cost Proposals #46 through #49 for MEME events and quarterly groundwater sampling were prepared by Bhate and submitted to ADEM for approval. ADEM approved the Cost Proposals in letters dated January 21, 2016.

In a letter dated September 30, 2016, ADEM approved costs for installation of a deep monitoring well to determine the vertical extent of contamination. ADEM also requested that existing well MW-19 be reinstalled as a 4-inch diameter well. The well installations and soil sampling conducted on November 3, 2016, were associated with Cost Proposal #50. The newly installed wells were sampled along with the existing monitoring wells on November 21 and 22, 2016, under Cost Proposal #48. Cost Proposal #49 included a MEME event conducted on December 14, 2016, and a groundwater sampling event conducted on January 19 and 20, 2017.

In letters dated March 15, 2017, ADEM approved Cost Proposals #51, #52, and #53 for continued groundwater sampling and 8-hour MEME events following each groundwater sampling event. The MEME events and groundwater sampling associated with these cost proposals were conducted from May 2017 through February 2018.

In letters dated June 11, 2018, ADEM approved Cost Proposals #54, #55, and #56 for continued groundwater sampling and monthly 8-hour MEME events followed by a groundwater sampling event. The results of the MEME events and groundwater sampling indicated persistent dissolved gasoline concentrations centered on MW-19. The MEME events during late 2018 and 2019 did not reduce groundwater benzene concentrations to below Site-Specific Corrective Action Levels (SSCALs).



ADEM requested a High Resolution Site Characterization Study in a letter dated March 19, 2019. The high resolution study was conducted in October 2019 under Cost Proposal #57. In letters dated August 22, 2019, ADEM approved Cost Proposals #58, #59, #60, and #61 for continued groundwater sampling. Groundwater sampling events associated with these cost proposals were conducted in 2019 and 2020.

At the request of ADEM, Bhate prepared an UIC permit application under Cost Proposal #62 in anticipation of conducting ISCO at the site. The UIC permit application was submitted to ADEM in March 2020 and was approved by ADEM in September 2020. ADEM then requested preparation of a Modified Corrective Action Plan, which was prepared under CP #67 for the ISCO.

In letters dated October 13, 2020, ADEM approved Cost Proposals #63 through #66 for continued groundwater sampling. A Modified Corrective Action Plan was prepared under Cost Proposal #67 for implementation of ISCO. The Modified CAP included Cost Proposal #68 for injection of Provect-OX2™. The injection of Provect-OX2™ was conducted in March 2021. Sampling events under Cost Proposals #64 through #66 were conducted in 2021 after injection of Provect-OX2™. In letters dated November 4 2021, ADEM approved Cost Proposals #69 through #72 for continued groundwater sampling and MEME events. The Alabama Department of Environmental Management (ADEM) requested Cost Proposal #73 on December 9, 2022, with the expectation that source removal from the remaining contaminant zone will complete cleanup of the site. The following excavation corrective action plan provides for well abandonment in the proposed excavation area, excavation of impacted soils in the northwest area of the parking lot, placement of Provect-OX2™ in the excavation prior to backfill, and replacement of source area monitoring wells.

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### 3 PROPOSED CORRECTIVE ACTION ACTIVITIES

#### 3.1 Remedial Action Strategy

The objective of this CAP is to design and implement a remedial action strategy that will remove contaminated soils in the northwest corner of the site. Due to the presence of a high-pressure natural gas line extending through the remaining source area, it will not be practical to remove all impacted soils. Therefore, Provect-OX2™ oxidant will be placed in the excavation prior to backfilling to help treat any remaining soil and groundwater contamination. Following removal of the petroleum source in soils, it is anticipated that groundwater contamination will naturally attenuate. It will be necessary to install a replacement monitoring well following the soil excavation. ADEM has already approved Cost Proposals #74 through #77 for one year of quarterly groundwater sampling to monitor natural attenuation of the dissolved hydrocarbon plume after the soil excavation is completed.

The proposed activities include:

- Identify the locations of underground utilities in the proposed excavation area using ground penetrating radar
- Conduct soil borings and obtain soil sample results to be used to obtain permits for soil disposal prior to excavation activities
- Submit ADEM Form 300 for solid waste disposal approval
- Abandon monitoring wells in the proposed excavation area
- Excavate impacted soil present within an approximate 20-ft by 30-ft area along both sides of an underground natural gas line to a depth of 10 feet.
- Perform sampling of the excavated area.
- Dispose of contaminated soil to at a local Subtitle D lined landfill.
- Place 3,800 pounds of Provect-OX2™ in excavation and backfill with #57 stone.
- Install one replacement monitoring well.
- Restore the parking lot surface of the excavated area with asphalt, paint parking space lines, and replace curbs removed during excavation

#### 3.2 Remedial Action Goals

The ARBCA evaluation completed by Bhate in 2005 determined that the nearest point of exposure to impacted groundwater would be a hypothetical future water well assumed to be

installed 300 feet west of the source area. Due to elevated benzene concentrations in wells MW-17, MW-19, RW-01, and RW-03, representative on-site groundwater concentrations exceed SSTLs for completed pathways. No other COC exceed the respective SSTLs established in the ARBCA evaluation.

The proposed soil excavation will attempt to remediate contaminated groundwater to a concentration at or below the site SSTLs for benzene developed through the ARBCA process. Target levels protective of a hypothetical future water well for benzene are as follows:

MW-19: 0.0658 milligrams per liter (mg/L) (source)

MW-7: 0.0137 mg/L (point of compliance)

Target levels protective of a hypothetical future water well for toluene are as follows:

MW-19: 13.2 mg/L (source)

MW-7: 2.75 mg/L (point of compliance).

### **3.3 Proposed Monitoring Well Abandonment**

It is anticipated that two Type-II groundwater monitoring wells and two recovery wells will be abandoned at the subject site prior to commencement of soil excavation (Figure 2). The monitoring wells and recovery wells (MW-19, MW-21, RW-01, and RW-03) will be abandoned according to the following procedures:

- The well casings will be grouted by pressure grouting the well. The cement-bentonite grout will consist of neatly mixed type I/II Portland cement and powdered bentonite. The grout mix will consist of six to seven gallons of potable water and three pounds of bentonite powder per sack (94 pounds) of cement.
- The cement-bentonite grout will be placed in the well using a tremie pipe and a grout pump. The tremie pipe will be placed near the bottom of each well and grout pumped into the bottom of the well. The pipe will be slowly raised toward the top of the well until the well is completely filled.
- Removal of well casing and covers will not be necessary since the upper section of the abandoned wells will be removed during the soil excavation.

### **3.4 Soil Sampling for Waste Characterization**

Soil sampling will be conducted at 6 boring locations to obtain current petroleum concentration data necessary for a soil disposal permit (Figure 3). Underground utilities will be cleared using the Alabama 811 utility location service prior to soil borings. The soil borings will be advanced using a truck mounted, direct push rig. Soil samples will be collected continuously from the surface to a depth of approximately 10 feet below ground surface (bgs) using a Dual Tube™ sampling system. After completion of soil sampling, each borehole will be abandoned with bentonite pellets.

Soil samples will be screened with a photoionization detector (PID) to determine the presence of organic vapors. Two soil samples with the highest PID readings will be selected from each boring for laboratory analysis.

A total of 12 soil samples will be sent to Pace Analytical, Inc., in Mt. Juliet, Tennessee, to be analyzed for BTEX, and MTBE by U.S. Environmental Protection Agency (USEPA) Method 8260B and lead by EPA Method 6010. The soil samples will be processed upon collection for immediate delivery to the laboratory. Each sample will be placed in the appropriate sample container, labeled, documented on a chain-of-custody record, and then packed on ice at 4 degrees Celsius (oC) prior to delivery to the laboratory.

The soil analytical results will be provided to the ADEM Land Division along with a Form 300 Solid Waste Profile Sheet to obtain a permit for disposal of the excavated soils.

### **3.5 Proposed Soil Excavation Activities**

After obtaining soil disposal permits, the excavation will be conducted during a week when rainfall is not predicted. All truck traffic will be limited to the Windsor Place apartment entrance immediately south of the excavation area which should minimize any impact to the commercial tenants. Precise location of the underground natural gas line that passes through the excavation area will be determined using a ground penetrating radar service.

Excavation of the petroleum impacted soil will be conducted in an approximate 20 ft by 30 ft area on either side of a natural gas line covering 4 parking spaces (Figure 3). The asphalt lot and concrete curbs will be marked according to the proposed excavation area and sawcut prior to soil excavation. The excavated asphalt and curbing will be disposed offsite at a demolition landfill. The overall excavation is anticipated to progress from north to south across the site to allow equipment access to the excavation area. Excavation will be completed and backfilled along the west side of the natural gas line before proceeding to the east side of the natural gas line to conduct further excavation. This will help soils below the natural gas line to remain stable. Trucks will enter the site from the Windsor Place apartment entrance to the parking lot.

The zone of most impacted soil is anticipated to be between depths of 6 feet and 10 feet based on the high-resolution study results. Impacted soil will be excavated to an average depth of approximately 10 feet bgs.

Dewatering of the excavation is not anticipated to be necessary. Based on the excavation depth and soil type, sloping of the sidewalls will not be necessary. No personnel will be allowed to enter the excavation at any time.

It is anticipated that excavation will be conducted only within the area depicted in Figure 3. Further excavation to the east will be limited by the natural gas line. It is anticipated approximately one week will be required to complete the soil excavation if the excavation remains within the proposed excavation limits.

During excavation activities, sidewall samples will be collected from the excavation at a frequency of 1 per 25 linear feet of sidewall at the anticipated limits of excavation. The sidewall samples will be collected at a depth just above the capillary fringe zone. Approximately six sidewall samples will be collected. Bottom samples will be collected at a rate of 1 per 100 square feet. However, bottom samples will not be collected from the saturated zone. Approximately six bottom samples will be collected from the excavation. Collected confirmation samples will be sent to Pace Analytical in Mount Juliet, Tennessee, for analysis of BTEX/MTBE by U.S.EPA Method 8260B. Samples will be analyzed on a 5-day turnaround basis.

### **3.5.1 Excavated Material Management and Backfill**

The contaminated excavated soil will be transported under manifest to a local Subtitle D landfill for disposal. It is estimated that approximately 222 cubic yards (310 tons) of soil will be disposed at the landfill. Copies of the manifests and load weight tickets will be obtained from the landfill for inclusion in the excavation report.

Prior to backfill, approximately 3,800 pounds of Provect-OX2™ oxidant will be placed in the bottom of the excavation in contact with the water table surface. The oxidant should be adequate to degrade any remaining groundwater contamination following source removal. The excavation will then be backfilled with #57 stone.

The surface will be finished with asphalt to match the surrounding parking lot and concrete curbs removed during the excavation will be replaced. New parking space lines will be painted on the new asphalt.

### **3.5.2 Safety Considerations**

Prior to implementation of excavation activities, a survey of underground utilities will be conducted at the site. Underground utility clearance will be requested from the Alabama Line Location Center. As-built drawings will also be reviewed to help identify utility locations.

A site-specific health and safety plan is provided in Appendix C. All Bhate field personnel have received Occupational Safety and Health Administration (OSHA)-approved health and safety training. Before beginning work, a health-and-safety meeting will be held at the site by the Bhate site coordinator and the health and safety plan will be reviewed. During this meeting, personnel will be informed of on-site hazards and all safety equipment (explosion meters, hard hats, steel-toed boots, protective clothing, etc.) will be inspected. While work is underway, an "exclusion zone" (the size of which will be determined by the on-site coordinator) will be maintained around the excavation areas. No unauthorized personnel will be allowed in these areas. The excavation area will be barricaded at the end of each workday.

### **3.5.3 Excavation Report**

A report summarizing the soil excavation and disposal will be prepared for submittal to ADEM along with the payment request for the excavation work. The report will include the confirmation soil sample analytical results. The soil results will be compared to the proposed SSCALs for the site that are pending approval by ADEM. Copies of the soil disposal manifests and load tickets will be included in the report.

## **3.6 Proposed Monitoring Well Installation Activities**

A replacement monitoring well will be installed following completion of the asphalt parking lot replacement. The monitoring well will be installed outside the west limits of excavation near the current location of well MW-19. A site plan with the replacement monitoring well location is included as Figure 3.

The wells will be installed to a depth of 15 feet. All monitoring wells will be constructed using pre-assembled two-inch diameter flush threaded Schedule 40 PVC risers, with 10 feet of 0.01-inch factory slotted well screen. Clean quartz sand pack material, of uniform gradation, will be placed in the annular space between the borehole and the PVC material. The sand pack will be installed to a depth of approximately 2 feet above the top of the well screen. A layer of bentonite pellets will be placed above the sand pack in each well and hydrated with clean water. Portland cement grout will be used to backfill the annular space above the bentonite seal to the ground surface. The wells will be secured with water-tight locking caps. The surface of each well will be completed with a flush mounted access assembly, embedded in a 2-foot square by 4-inch-thick concrete pad and labeled to indicate the presence of a monitoring well.

Bhate will determine the top of casing elevations for the replacement wells relative to the existing wells at the site.

### **3.7 Proposed Groundwater Sampling Activities**

Four groundwater sampling events will be conducted on a quarterly basis commencing 3 months after completion of the soil excavation. Five of the existing groundwater monitoring/recovery wells (MW-04, MW-06, MW-13, MW-17, RW-02) and proposed replacement monitoring well (MW-22) at the site will be sampled. Sampling procedures to collect groundwater samples from the above-referenced wells will include the following:

- Prior to sampling, the groundwater monitoring wells will be examined to determine the presence or absence of free product.
- Water levels will be obtained from each monitoring well using an electronic oil/water level interface probe. Water level measurements will be referenced to a marking point located at the top of the well casing. Relative elevation measurements will be referenced to top-of-casing elevations determined during previous site investigations.
- The relative groundwater elevation for each well will be computed as the difference between the top-of-casing elevation and the depth to groundwater. The groundwater elevation for each well will be plotted on a map and contoured to illustrate the potentiometric surface of the uppermost water-bearing zone.
- Before groundwater samples will be collected, each well will be purged by removing approximately three to five well volumes of water, or until pH, temperature, or specific conductance of the water purged has stabilized. A peristaltic pump will be used to purge the wells.
- Groundwater samples will be collected from the top of the water column of each well, using a new disposable bailer for each well. All groundwater samples collected will be placed in appropriate containers and labeled. The sample containers will be placed in an insulated cooler and will be shipped overnight with chain-of-custody records to ESC for analysis. Groundwater samples will be analyzed for BTEX and MTBE using USEPA Method 8021.
- Additional groundwater samples will be collected, prior to purging, to determine the following natural attenuation parameters: temperature, pH, conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP). These parameters will be obtained in the field using a direct-read water quality instrument.



- A natural attenuation monitoring report will be prepared for each quarterly sampling event. If BTEX and MTBE concentrations decrease below the proposed groundwater SSCALs in the ARBCA document, then no further action status will be recommended. Otherwise, continued groundwater monitoring will likely be necessary.

## 4 COST ESTIMATE

Subcontractor cost estimates for the soil excavation are included in Appendix B. Based on the unit rates provided and Bhate’s experience working with them on similar projects, Singley Environmental is the recommended subcontractor for the soil excavation. The cost proposal for soil excavation includes Singley Environmental’s unit rates.

The estimated costs associated with implementing this CAP have been itemized and are included in Appendix C. The following are included:

- Cost Proposal No. 78, which includes the abandonment of 2 monitoring wells and 2 recovery wells and sampling of 6 soil borings
- Cost Proposal No. 79, which includes the soil excavation and disposal, Provect-OX2™ oxidant, and report preparation
- Cost Proposal No. 80, which includes replacement well installation

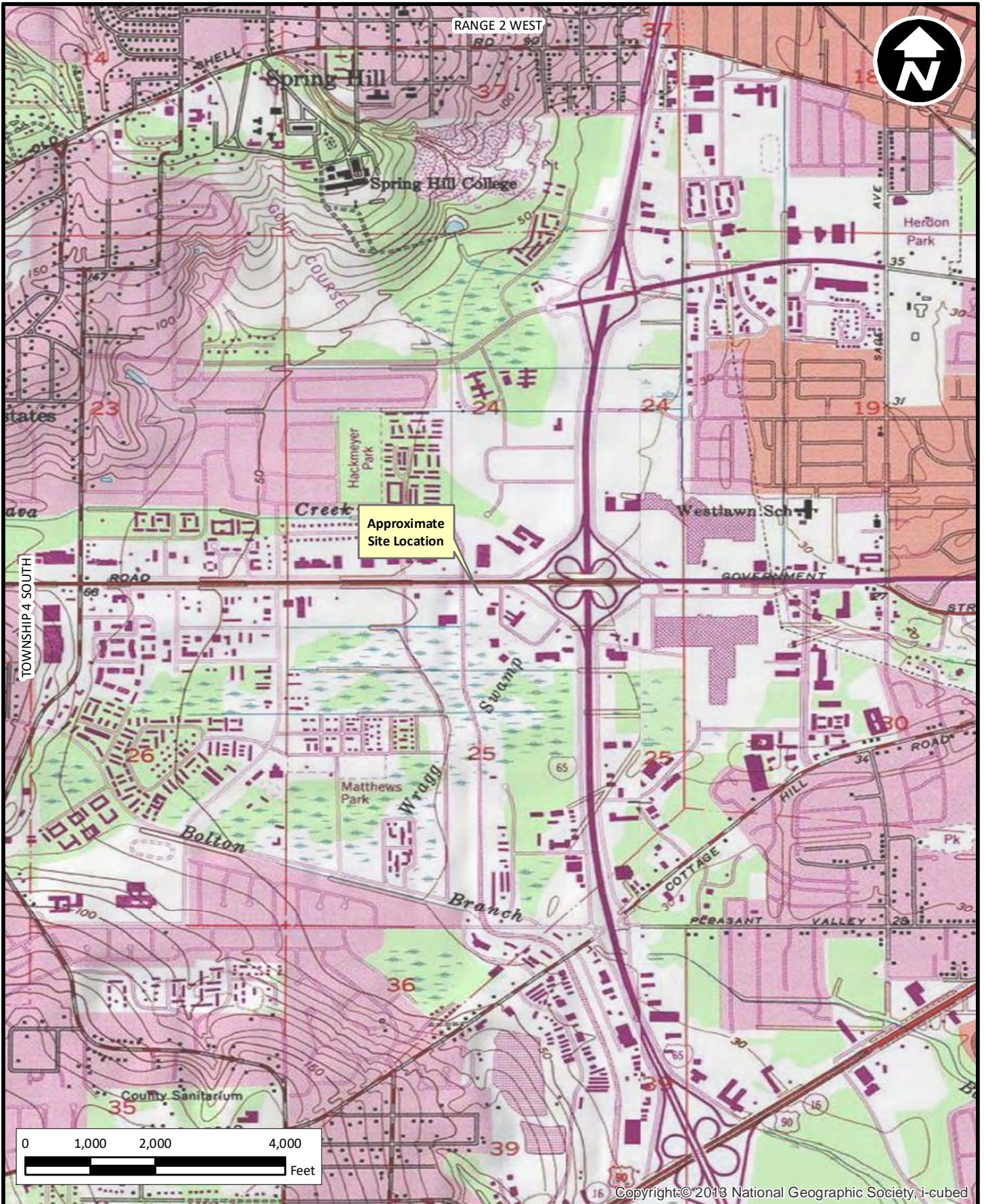
A summary of the cost proposals is provided in the table below.

Cost Proposal #	Task Description	Proposed Cost
78	Well Abandonment	\$10,305.50
79	Soil Excavation and Report Preparation	\$99,742.00
80	Replacement Well Installation	\$6,559.00
Proposed Corrective Action Plan Cost Proposal Total		<b>\$116,606.50</b>

The activities described in this plan and associated costs represent Bhate's best estimate to perform the specified tasks. As with any program of this type, unforeseen conditions in the field or actions of third parties could affect final costs. Bhate will make every effort to remain within the budget and will inform ADEM immediately, if unforeseen circumstances arise.

## **FIGURES**





www.bhate.com

Commerce Group  
Former Phillips 66 - Delaney Property  
3659 Airport Blvd.  
Mobile, Alabama

PROJECT NO: ADEM000. 0230.7100	SCALE: As Shown	DATE: 8/31/2022	DRAWN BY: MRM
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Topographic Map

Figure 1



Commerce Group  
Former Phillips 66 - Delaney Property  
3659 Airport Blvd.  
Mobile, Alabama

DRAWN BY:  
MIRM

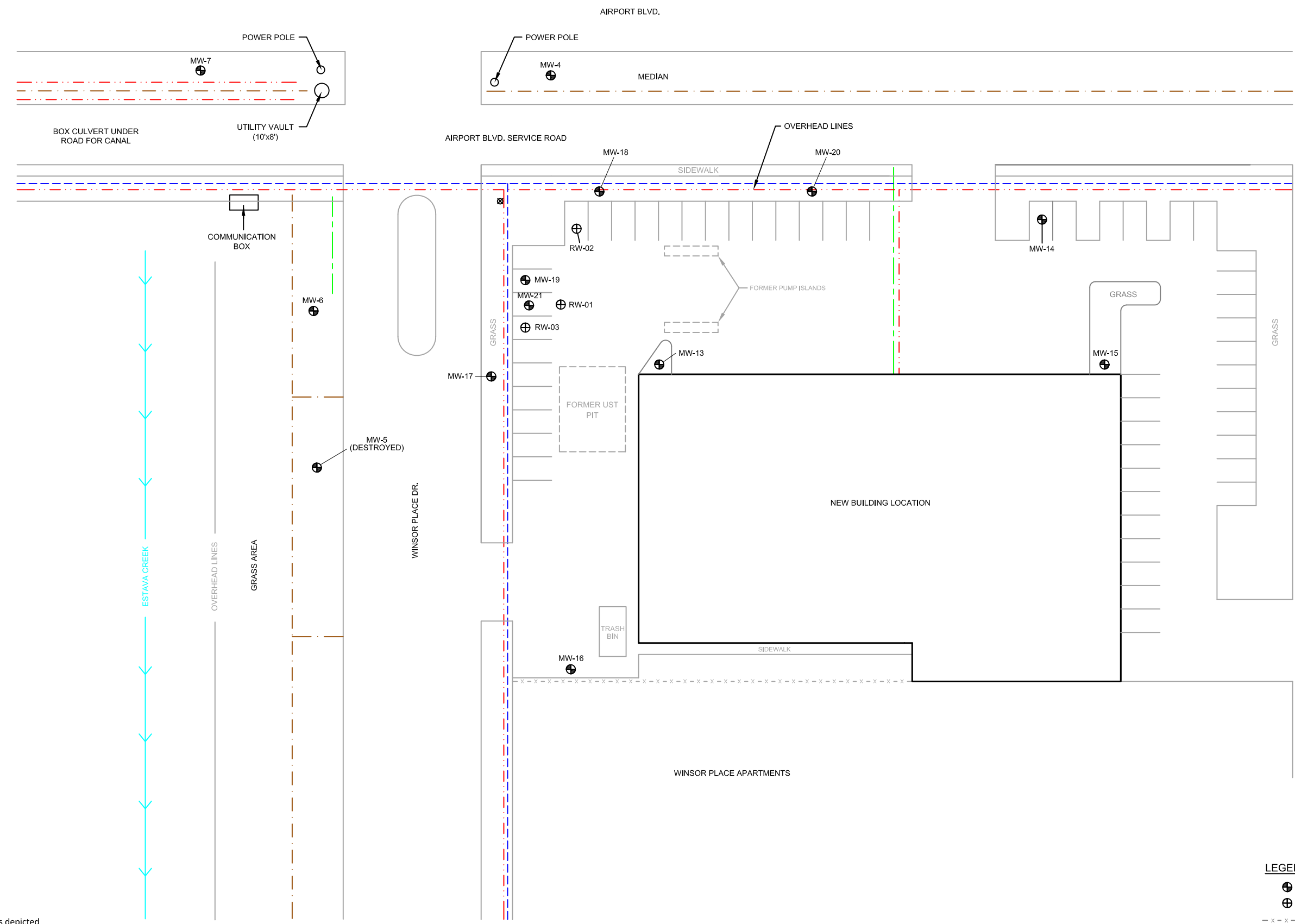
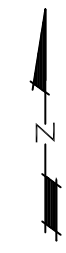
DATE:  
8/31/2022

SCALE:  
As Shown

PROJECT NO:  
ADEM000.  
0230.7100

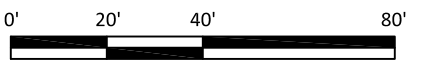


www.bhate.com



LEGEND:

- ⊕ MONITORING WELL LOCATION
- ⊕ RECOVERY WELL LOCATION
- x - x - x - FENCE
- - - - - WATER
- - - - - COMMUNICATION LINES
- - - - - GAS
- - - - - SEWER
- ⊗ PROPERTY CORNER



Note:  
This information is depicted to provide visual aid within the context of this document and should not be used as a sole reference in precise dimensioning of features indicated. Please verify the location of all features including underground and aboveground utilities prior to conducting any subsurface exploration or site assessment.





Airport Boulevard

Underground Gas Line

MW-22

Excavation Area

**Legend:**

- Proposed Monitoring Well Location
- Proposed Soil Boring Location

Notes:  
This information is depicted to provide visual aid within the context of this document and should not be used as a sole reference in precise dimensioning of features indicated. Please verify the location of all features including underground and aboveground utilities prior to conducting any subsurface exploration or site assessment.

Proposed Excavation Area

Figure 3

Commerce Group  
Former Phillips 66 - Delaney Property  
3659 Airport Blvd.  
Mobile, Alabama

DRAWN BY:

CM

DATE:

4/17/2023

SCALE:

As Shown

PROJECT NO:

ADEM000.  
0230.7200



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**APPENDIX A**

**HEALTH AND SAFETY PLAN**

**SITE SAFETY AND HEALTH PLAN  
FORMER PHILLIPS 66 – DELANEY PROPERTY  
MOBILE, ALABAMA**

A. Site Description

Date: April 25, 2023  
Location: 3659 Airport Road  
Mobile, Alabama

Hazards: Provect-OX handling, petroleum contaminated soil and water, shallow excavations, and buried utilities

Area affected: Area in the immediate vicinity of current and former UST locations

Surrounding Population: Commercial and industrial

B. Onsite Organization and Coordination: The following personnel are designated to carry out the stated job functions on site. (NOTE: one person may carry out more than one job function).

Senior Project Manager: Emmett Beers  
Field Engineer/Geologist (Leader): Pierce Lagle  
Environmental Technician: Derrick Berry  
Soil Excavation: Singley Environmental

All personnel arriving at or departing from the site should log in and out with the Record Keeper. All activities on site must be cleared through the Senior Project Manager.

C. Onsite Control

The Field Engineer/Geologist will coordinate access control and security on site. A safe perimeter will be established around the work area.

No unauthorized person will be allowed within the work area. The boundaries of the work area will be identified by red or yellow boundary tape and traffic cones.

Smoking within the work area is strictly prohibited.



**SITE SAFETY AND HEALTH PLAN  
FORMER PHILLIPS 66 – DELANEY PROPERTY  
MOBILE, ALABAMA**

**D. Hazardous Evaluation**

The following substance is known or suspected to be on site. The primary hazards of this substance are identified.

<u>Substance Involved</u>	<u>Concentration</u>	<u>Primary Hazard</u>
Petroleum related Products (gasoline/diesel, etc.) See attached MSDS's	Variable	Skin: soap wash Eye: rinse immediately Breath: respiratory support Swallow: medical attention immediately Fire Carcinogen
Hydrogen Peroxide-OX See attached MSDS		Skin: soap wash Eye: rinse immediately Breath: respiratory support Swallow: medical attention immediately Fire Corrosive

**E. Personal Protective Equipment**

- Level D with skin protection
- gloves
  - tyvek suits
  - splash gear (apron and/or rain gear)
  - safety glasses
  - hard hat
  - faceshield as needed

<b>Minimum Personal Protective Equipment by Activity</b>					
<b>Activity</b>	<b>Head/Face</b>	<b>Foot</b>	<b>Hands</b>	<b>Respiratory</b>	<b>Clothing</b>
General Site Activities (no potential contact with contaminated materials)	Hard Hat (for overhead hazards), Safety Glasses with rigid side shields	Steel toed boots	Leather gloves as needed	None	Minimum of long pants and shirts with a minimum 4-inch sleeve Reflective Safety Vest (for traffic areas) Hearing protection around equipment operation
Drilling or sampling activities	Hard Hat (for overhead hazards), Safety Glasses with	Steel toed boots	Chemical resistant gloves (inner	*None	Tyvek coveralls for airborne particulates and negligible splashing

(potential contact with contaminated materials)	rigid side shields Hearing protection with a NRR of 26 or greater.		and outer nitrile)		Reflective Safety Vest (for traffic areas) Hearing protection around equipment operation
Provect-OX	Hard Hat (for overhead hazards), Safety Glasses with rigid side shields  Faceshield	Steel toed boots	Chemical resistant gloves (inner and outer nitrile)	*None	Splash apron or rain gear Reflective Safety Vest (for traffic areas) Hearing protection around equipment operation

\*Respiratory protection is not anticipated unless specified action limits are exceeded as outlined in section 3. Environmental Monitoring. If required, respirators will be specified according to the hazard. All Bhate personnel who may be required to wear a respirator during any phase of site activities must comply with the requirements of the Bhate Respiratory Protection Program. Respiratory protection users must participate in a medical monitoring program and be physically capable of performing the required work activities, they must have received training in the use of, and have been fit tested for the respiratory protection selected. See Air Monitoring Action Levels in Section 3 for additional information. Respiratory protection may be upgraded based on air monitoring action level results shown in section 3.

No changes to the specified levels of protection shall be made without approval of the field engineer/geologist, the Senior Project Manager, and the Health and Safety Manager.

F. Communication Procedures

In case of emergency a car horn blast signal shall be sounded. This will indicate that all personnel should leave the exclusion zone.

G. Decontamination Procedures

Personnel and equipment leaving the exclusion zone shall be thoroughly decontaminated. A solution of detergent and water shall be used for decontamination.

H. Site Safety and Health Plan

1. The Field Engineer/Geologist will coordinate site safety and make recommendations to the Senior Project Manager regarding safety on site.

2. Emergency Medical Care

Emergency equipment will be available on site at the following locations:

First Aid Kit - command post

Emergency Eye Wash - command post

Fire Extinguisher - command post

**SITE SAFETY AND HEALTH PLAN  
FORMER PHILLIPS 66 – DELANEY PROPERTY  
MOBILE, ALABAMA**

List of emergency phone numbers:

<u>Agency/Facility</u>	<u>Phone #</u>	<u>Address</u>
Police	911	Emergency
Fire	911	Emergency
Hospital	911	Emergency
Ambulance	911	Emergency

3. Environmental Monitoring

Based on the judgment of the field engineer/geologist, the following environmental monitoring instruments shall be used on site at the specified intervals:

- lower explosion limit meter (LEL)
  - < 10% LEL – proceed with work
  - > 10% LEL – stop work and notify site supervisor; ensure employees are upwind; apply appropriate controls such as ventilation
- photoionization detector (PID)-assesses volatile organic compound concentration in the atmosphere
  - <5 ppm – continue work in required PPE
  - >5 ppm to <10 ppm – upgrade to level C PPE with air purifying respirator with organic vapor and HEPA P100 cartridges
  - >10 ppm – stop work and ensure personnel are upwind; notify the PM and HSM to determine possible upgrade in respiratory protection; apply ventilation to reduce levels

Use wet methods to minimize dust generation.

4. Emergency Procedures

The following standard emergency procedures will be used by onsite personnel. The Field Engineer/Geologist shall be notified of any onsite emergencies and will be responsible for ensuring that the appropriate procedures are followed.

Personnel Injury in the Exclusion Zone: Upon notification of an injury in the Exclusion Zone, the designated emergency signal, car horn blast, shall be sounded. All site personnel shall assemble at the decontamination line. The rescue team will enter the Exclusion Zone, if required, to remove the injured person. The Field Engineer/Geologist and Senior Project Manager will evaluate the nature of the injury, and the affected person(s) will be decontaminated to the extent possible prior to movement to the

Support Zone. Contact should be made with the designated medical facility, if required. No person shall reenter the Exclusion Zone until the cause of the injury or symptoms are determined. Treat injury with applicable First Aid. All work related injuries beyond first aid will result in notification of Emergency Services and notification of the employee supervisor.

Personnel Injury in the Support Zone: Upon notification of an injury in the Support Zone, the Senior Project Manager and Field Engineer/Geologist will assess the nature of the injury. If the cause of the injury or absence of the injured person does not affect the performance of site personnel, operations may continue. If the injury increases the risk to others, all site personnel will be notified and shall move to the decontamination line for further instructions. Activities on site will stop until the added risk is removed or minimized. Treat injury with applicable First Aid. All work related injuries beyond first aid will result in notification of Emergency Services and notification of the employee supervisor.

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Fire/Explosion: Upon notification of a fire or explosion on site, the designated emergency signal car horn blast shall be sounded and all site personnel assembled at the decontamination line. The fire department shall be alerted and all personnel moved to a safe distance from the area involved.

Personal Protective Equipment Failure: If any site worker experiences a failure or alteration of protective equipment that affects the protection factor, that person and his/her buddy shall immediately leave the Exclusion Zone. Reentry shall not be permitted until the equipment has been repaired or replaced.

Other Equipment Failure: If any other equipment on site fails to operate properly, the Field Engineer/Geologist shall be notified. The Field Engineer/Geologist will determine the effect of this failure on continuing operations on site. If the failure affects the safety or personnel or prevents completion of the Work Plan tasks, all personnel shall leave the Exclusion Zone until the situation is evaluated and appropriate actions taken.

In all situations, when an onsite emergency results in evaluation of the exclusion zone, personnel shall not reenter until:






1. The condition resulting in the emergency has been corrected.
2. The hazards have been reassessed.
3. The Site Safety Plan has been reviewed.
4. Site personnel have been briefed on any changes in the Site Safety Plan.

Adverse Weather: Tornados, lightning, or other threatening weather conditions will result in an immediate shut down of operations and evacuation of personnel. If take shelter situation is required personnel will proceed to the pre-designated take shelter location onsite.

Material Spill or Release: Vehicles and equipment will be maintained and inspected so as to prevent fluid leaks. Spill kits will be available to facilitate prompt containment and clean-up of spills.

In the event of an emergency, local sources of assistance will be utilized. Cellular telephones will be available to summon emergency services and functionality verified at the work site during the tailgate safety meeting. Prior to the commencement of the work, the SSHO will familiarize the field team with the locations of the closest hospital. Phone numbers and facilities for emergency use are provided for the work site.

**Start:**  
**3659 Airport Blvd**  
 Mobile, AL 36608-1615, US  
**End:**  
**Providence Hospital: 251-633-1000**  
 6801 Airport Blvd, Mobile, AL 36608, US

Directions	Distance
<b>Total Est. Time: 8 minutes Total Est. Distance: 4.41 miles</b>	
 <b>1:</b> Start out going WEST on AIRPORT BLVD.	<0.1 miles
 <b>2:</b> Turn RIGHT.	<0.1 miles
 <b>3:</b> Turn LEFT onto AIRPORT BLVD / CR-56 W.	4.2 miles
 <b>4:</b> Make a U-TURN onto AIRPORT BLVD / CR-56 E.	0.1 miles
 <b>5:</b> End at <b>Providence Hospital:</b> 6801 Airport Blvd, Mobile, AL 36608, US	
<b>Total Est. Time: 8 minutes Total Est. Distance: 4.41 miles</b>	

# Hospital Route Map

## Overview



## Detail



Bhate Environmental Associates

Source: Yahoo Mapquest  
 HOSPITAL ROUTE MAP  
 Providence Hospital – Mobile, AL

Former Phillips 66 –  
 Delaney Property  
 Health and Safety Plan

AHA – General Site Activities		
Activity	Hazard	Controls
<p>General site activities Mobilization and Demobilization</p> <p>The hazards and control measures presented are applicable to all phases of the project</p>	Slips, trips, or falls on walking and working surfaces	<ul style="list-style-type: none"> <li>• Maintain clean work areas by following good housekeeping procedures</li> <li>• Be alert for uneven terrain and steep slopes</li> <li>• Wear slip resistant footwear when walking/working on slippery surface</li> <li>• Keep work area free of dirt, grease, slippery materials, debris, and tools</li> <li>• Provide adequate lighting in all work areas</li> </ul>
	Exposure to high noise from heavy equipment and power tools	<ul style="list-style-type: none"> <li>• Hearing protection will be worn with a noise reduction rating capable of maintaining personal exposure below 85 dBA (ear muffs or plugs); SSHO will determine the need for hearing protection; all equipment will be equipped with manufacturer's required mufflers</li> </ul>
	Eye injury	<ul style="list-style-type: none"> <li>• Use approved safety glasses with rigid side shields</li> </ul>
	Overhead hazards	<ul style="list-style-type: none"> <li>• Personnel will be required to wear hard hats that meet ANSI Standard Z89.1 in all construction areas, and areas with overhead hazards</li> </ul>
	Dropped objects	<ul style="list-style-type: none"> <li>• Steel toe boots meeting ANSI Standard Z41 shall be worn</li> </ul>
	Back injury from lifting heavy loads	<ul style="list-style-type: none"> <li>• Site personnel will be instructed on proper lifting techniques</li> <li>• Mechanical devices should be used to reduce manual handling of materials</li> <li>• Team lifting should be utilized if mechanical devices are not available</li> </ul>
	Thermal Stressors and other hazards (i.e. heat stress, cold stress)	<ul style="list-style-type: none"> <li>• Employees will have appropriate clothing for variable weather</li> <li>• Wear long sleeves and long pants, sunscreen with a high SPF on exposed skin</li> <li>• Employees will take breaks and drink plenty of fluids, as necessary, to prevent heat stress alternating between water and Gatorade-type drinks</li> <li>• Wear insect repellent as needed</li> <li>• Refer to the Corporate HASP for detailed information on heat and cold stress</li> </ul>



General site activities Mobilization and Demobilization (continued)	Spills/Fire	<ul style="list-style-type: none"> <li>• Fuel cans will be NFPA approved and equipped with pouring spout or funnel</li> <li>• Spill and absorbent materials will be readily available</li> <li>• Smoking and open flames are not permitted in fueling/greasing areas</li> <li>• All heavy equipment will be equipped with a ABC type fire extinguishers which will be inspected monthly and documented</li> </ul>
	Vehicular traffic in work area and heavy equipment operation	<ul style="list-style-type: none"> <li>• Wear reflective traffic vest and cordon off work area</li> <li>• Maintain awareness of vehicle movement in work area and exercise caution when approaching heavy equipment exercise caution when approaching heavy equipment</li> <li>• Equipment will be equipped with functioning back-up alarms, signal lamps and alerting horns</li> <li>• Operators are required to use seat belts</li> </ul>
	Inclement weather (Thunderstorms and tornadoes)	<ul style="list-style-type: none"> <li>• Halt activities immediately and take cover during thunderstorm or tornado warnings, shelter in a building if possible, stay away from windows</li> <li>• Listen to radio announcements for pending weather information</li> <li>• Do not try to outrun a tornado on foot or in a vehicle</li> </ul>
<b>Equipment Used</b>	<b>Inspection Requirements</b>	<b>Training Requirements</b>
Level D PPE First Aid Kits Fire Extinguishers	Weekly inspections will be performed on fire extinguishers and first aid kits  Informal daily safety inspections and formal weekly inspections shall be conducted on site using the logbook and the Health and Safety Inspection form respectively.	Personnel have read and understand the work plan, SSHP and AHAs At least one individual onsite will have current CPR and First Aid training 1910.120 40 hr hazwoper training with refreshers 8 hr supervisor training for the supervisor onsite All onsite employees will attend a daily safety briefing conducted by the site supervisor



AHA – Boring, Sampling, and Provect-OX		
Activity	Hazard	Controls
Boring and Sampling Hazards and recommended controls from AHA – 01 apply	Drill Rig Hazards  Including but not limited to:  Flying debris, falling objects, noise, hydraulic failures, unguarded machinery, equipment rollover, movement of large, heavy drilling tools, etc.	<ul style="list-style-type: none"> <li>• Drill rig is to be operated and maintained by qualified operators</li> <li>• A Drill Rig Inspection Checklist (following) should be completed daily to ensure that the rig is operating properly. The inspection will include fittings, cables, pins, connections, lubrication points, controls, emergency stops, etc.</li> <li>• To the extent possible, the terrain should be level and the condition of the ground such that unexpected movement of the rig is unlikely</li> <li>• Stabilize the rig prior to boring in accordance with manufacturer’s recommendations</li> <li>• Wear required PPE (hard hat, safety glasses, work gloves, ear muffs or plugs, steel toe work boots), ensure loose clothing is secured</li> <li>• Maintain good housekeeping on and around drill rig</li> </ul>
	Overhead/buried utilities	<ul style="list-style-type: none"> <li>• Conduct a utility locate to identify the location of underground utilities in boring locations and complete any required dig permits</li> <li>• Overhead utilities should be considered live until determined otherwise. Maintain a minimum distance of 15 feet from overhead utilities</li> <li>• All underground utilities must be clearly marked before beginning work</li> <li>• No borings shall be made within a 4 foot “Buffer Zone” of any utility marking</li> </ul>
	Exposure to soil and/or water contaminants	<ul style="list-style-type: none"> <li>• To the extent feasible, limit contact with subsurface materials</li> <li>• Wear chemical resistant gloves when handling soil samples (double layer nitrile)</li> <li>• SSHO shall conduct breathing zone monitoring for VOCs with a PID/FID ;SSHO will require an upgrade in PPE or modification to work based on monitoring results as outline in Section 3.</li> <li>• Wash hands and face prior to eating or drinking after handling potentially contaminated materials</li> </ul>

<p>Heavy Equipment Including but not limited to:</p> <p>Flying debris, falling objects, noise, hydraulic failures, unguarded machinery, equipment rollover, movement of large, heavy drilling tools, pinch points, etc.</p>	<ul style="list-style-type: none"> <li>• Maintain awareness of vehicle movement in work area and exercise caution when approaching heavy equipment</li> <li>• Equipment will be furnished with functioning back-up alarms, signal lamps, and alerting horns</li> <li>• Operators are required to use seat belts</li> <li>• Signs, barricades, flagmen, and/or other traffic control devices will be used to control traffic as necessary</li> <li>• Buckets and attachments shall be placed on the ground if operator is not at the controls or if ground personnel approach</li> <li>• Equipment operators must have necessary training and experience to operate assigned equipment</li> <li>• Equipment must be operated according to manufacturer's instructions using proper attachments and ensuring capacities are not exceeded for the tasks at hand</li> <li>• Never lift a load over personnel and never walk under an elevated load</li> <li>• All equipment must be inspected on a daily basis prior to use to ensure its safe operation; use the drill rig inspection checklist and/or the construction equipment inspection checklist as appropriate</li> </ul> <p>All ground personnel working around heavy equipment must wear highly visible safety vests</p>	<ul style="list-style-type: none"> <li>• Utilize appropriate PPE (leather gloves) when handling well casings and tools</li> <li>• Stay clear of rear end of equipment</li> </ul>
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	Dust	<ul style="list-style-type: none"><li>• Use care when installing well materials (sand, bentonite, Portland cement) into monitoring well to prevent dust generation. This also applies to placement of Provect-Ox in excavation pit. Position body in an upwind location while from materials; handle materials in wet condition wherever possible</li></ul>
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<p>Excavation and trenching hazards include but are not limited to Cave-in, equipment pinch point/crushing hazards, atmospheric hazards, engulfment, utilities, etc.</p>	<ul style="list-style-type: none"> <li>• Keep workers away from digging equipment and never allow workers in an excavation when equipment is in use</li> <li>• Keep workers from getting between equipment in use and other obstacles and machinery that can cause crushing hazards</li> <li>• Keep equipment and the excavated dirt (spoils pile) back 2 feet from the edge of the excavation</li> <li>• Keep water out of trenches with a pump or drainage system, and inspect the area for soil movement and potential cave-ins</li> <li>• Keep drivers in the cab and workers away from dump trucks when dirt and other debris are being loaded into them. Don't allow workers under any load and train them to stay clear of the backs of vehicles.</li> <li>• <b>Based on the scope of work for this project, employees are not permitted to enter the excavation</b></li> <li>• <b>Back fill excavation as soon as possible following contaminated soils removal</b></li> </ul> <p><b>Barricade the work area around the excavation and install danger signs (i.e. Open Pit or Excavation)</b></p>	<p>Excavation and trenching hazards include but are not limited to Cave-in, equipment pinch point/crushing hazards, atmospheric hazards, engulfment, utilities, etc.</p>

Equipment Used	Inspection Requirements	Training Requirements
Modified Level D PPE First Aid Kits Fire Extinguishers Eyewash	Weekly inspections will be performed on fire extinguishers and first aid kits  al daily and formal weekly health and safety inspections to be conducted by the site supervisor	Personnel have read and understand the work plan, SSHP and AHAs At least one individual onsite will have current CPR and First Aid training 1910.120 40-hr Hazwoper training with current annual refresher 8 hr supervisor training for site supervisor Daily safety briefing conducted by the site supervisor for all employees

### Contaminants of Concern

Contaminant	PEL	TLV	Route(s) of Exposure	Signs and Symptoms of Exposure		Target Organs	IP (eV)	Specific Gravity	VP (mm Hg)	Flash Point °F	LEL %	UEL %
				Acute	Chronic							
Benzene	1 ppm	0.5 ppm (skin) 2.5 ppm STEL	Inhalation Contact Absorption	Irritation of eyes, nose, and respiratory system, dermatitis, headache, nausea	Bone marrow depression, anorexia, leukemia	Blood, CNS, skin, bone marrow, eyes, respiratory tract	9.24	0.88	75	12	1.3	7.9
Toluene	200 ppm	50 ppm (skin)	Inhalation Contact Absorption	Dermatitis, fatigue, weakness, confusion, muscular fatigue	Insomnia	CNS, liver, kidneys, skin	8.82	0.87	20	40	1.2	7.1
Ethylbenzene	100 ppm	100 ppm 125 ppm STEL	Inhalation Ingestion Contact	Irritation of eyes, skin, and mucous membranes, headache, dermatitis, narcosis, coma	CNS Damage	Eyes, skin, respiratory system, CNS	8.76	0.87	7	55	0.8	6.7
Xylenes (o, m, & p isomers)	100 ppm	100 ppm 150 STEL	Inhalation Ingestion Contact Absorption	Irritation of the eyes, skin, nose, throat, dizziness, drowsiness, corneal vacuolization, anorexia, nausea, vomiting, dermatitis	GI disturbances, blood and liver damage, CNS damage	Eyes, skin, respiratory system, heart, liver, kidneys, CNS	8.56	0.86	9	82	1.1	7.0
Gasoline	NA	300 ppm	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, mucous membrane; dermatitis; headache, lassitude (weakness, exhaustion), blurred vision, dizziness, slurred speech, confusion, convulsions; chemical pneumonitis (aspiration liquid); possible liver, kidney damage; [potential occupational carcinogen]	Potential carcinogen	Eyes, skin, respiratory system, central nervous system, liver, kidneys	NA	0.72	38	-45	1.4	7.6

**SITE SAFETY AND HEALTH PLAN  
FORMER PHILLIPS 66 – DELANEY PROPERTY  
MOBILE, ALABAMA**

**All site personnel have read the above plan and are familiar with its provisions.**

	<u>Name</u>	<u>Signature/Date</u>
Field Engineer/Geologist	_____	_____
Other Site Personnel	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____

**APPENDIX B**  
**SUBCONTRACTOR ESTIMATES**





**Singley Construction Company, Inc.**  
**Environmental Services**

P. O. Box 389 – 1001 Highway 13 South  
Columbia, Mississippi 39429

January 12, 2023

Bhate Environmental  
Mr. Emmett Beers  
1608 13<sup>th</sup> Avenue South, Suite 300  
Birmingham, AL 35205

**Singley Quote# 2523**

**Re: Excavation, Transportation & Disposal of Impacted Soil**  
**Phillips 66**  
**Mobile, AL**

Singley Construction is pleased to provide the following cost estimate for the above referenced project.

Item	Description	Quantity	Unit	Rate	Total
A.	Mobilization & Demobilization	1	LS	\$ 2,800.00	\$ 2,800.00
B.	Removal & Disposal of Asphalt (20' x 30')	1	LS	\$ 2,200.00	\$ 2,200.00
C.	Excavation of Impacted Soil	310	Per Ton	\$ 28.00	\$ 8,680.00
D.	Transportation & Disposal of Impacted Soil	310	Per Ton	\$ 110.00	\$ 34,100.00
E.	Provide & Compact Fill (Loose CY)	222	Per CY	\$ 60.00	\$ 13,320.00
F.	Replace Asphalt to original condition (20' x 30')	1	LS	\$ 5,400.00	\$ 5,400.00

**Total: \$ 66,500.00**

Thank you,

Corey Milton  
Project Manager



**American Remediation & Environmental, Inc.**

12631 Celeste Road | Chunchula, Alabama 36521

P.O Box 570 | Saraland, Alabama 36571

251.679.6900

251.679.6999 fax

**B HATE**

**mobile, Alabama**

Attn: Emmett A. Beers

Re: Price to provide Labor and Equipment to provide services for remediation of contaminated soil

American Environmental appreciates the confidence you have shown in our company by allowing us to submit the following price for the above referenced project.

American Environmental strives to provide an efficient, and well-organized and safe work place. We offer trained and experienced supervision and field technicians who are specialist in the cleaning of your equipment.

Please find the accompanying proposal for the successful completion of the referenced project.

American Environmental is eager to serve you and looks forward to assisting you in this vital project.

**American Remediation & Environmental, Inc. | 24 On Call Service**

Spill Clean • Tank Cleaning • Waste Disposal • Vacuum Tucks • Roll Off Service • Hydroblasting • Demolition • Remediation

**ADEM Watermark**



**American Remediation & Environmental, Inc.**

12631 Celeste Road | Chunchula, Alabama 36521

P.O Box 570 | Saraland, Alabama 36571

251.679.6900

251.679.6999 fax

- **Scope of Work:** Cut out 4 parking spaces which is about 20 by 30 foot area and excavate to 10 feet, this would be about 225 cu yards
- Haul soils to local landfill for disposal as petroleum contaminated
- We will order about 2000 pounds of Provectus powder and will need help placing in bottom of excavation before backfilling
- Backfill with gravel (57 stone??)
- Replace and stripe the four parking spaces, there is a concrete curb but hopefully we will not disturb it.

**B Hate to Supply:**

Staging area for American Environmental equipment.

Free access to the area being remediated

All Permits required.

**Project Duration:**

Job will be completed in the aloted time specified by B Hate. Unless affected by weather or unforeseen circumstances.

**American Remediation & Environmental, Inc. | 24 On Call Service**

Spill Clean • Tank Cleaning • Waste Disposal • Vacuum Tucks • Roll Off Service • Hydroblasting • Demolition • Remediation



**American Remediation & Environmental, Inc.**

12631 Celeste Road | Chunchula, Alabama 36521  
P.O Box 570 | Saraland, Alabama 36571

251.679.6900  
251.679.6999 fax

**Price Summery**

American Environmental is proposing performing the services for the pricing listed below.this will be for the exact scope listed. If there is any change to the scope it will be billed time and material. The scope does list backfill with 57 stone . the price reflects that . the second price reflects a layer of stone and sandclay backfill .

***Project Total. 1 :*** ***\$85,100.00***

***Project Total. 2 :*** ***\$68,600.00***



**From:** [Will Moody](#)  
**To:** [Emmett Beers](#)  
**Subject:** RE: Phillips Mobile  
**Date:** Thursday, January 5, 2023 2:59:05 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)

---

Hi Emmett,

Total costs for 2,000 lbs and 3,800 lbs of Provect-OX2 are \$7,800 and \$13,800, respectively. The costs include shipping to the site with a liftgate and pallet jack assist for offloading. I assumed the reagents would be provided in supersacks (one 2,000 lb sack and two 1,900 lb sacks).

Please contact me with any questions. Thank you for the opportunity.

Thanks,

Will

---

Will Moody – *Director of Business Development*



Red Bank, New Jersey 07701

Direct: (908) 581-6291

[will.moody@provectusenv.com](mailto:will.moody@provectusenv.com)

[www.provectusenvironmental.com](http://www.provectusenvironmental.com)

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**From:** Will Moody  
**Sent:** Thursday, January 5, 2023 11:55 AM  
**To:** Emmett Beers <[ebeers@bhate.com](mailto:ebeers@bhate.com)>  
**Subject:** RE: Phillips Mobile

Sounds good, Emmett. I should have the quotes finished by today.

Thanks,

Will

---

Will Moody – *Director of Business Development*



Red Bank, New Jersey 07701

Direct: (908) 581-6291

[will.moody@provectusenv.com](mailto:will.moody@provectusenv.com)

[www.provectusenvironmental.com](http://www.provectusenvironmental.com)

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**From:** Emmett Beers <[ebeers@bhate.com](mailto:ebeers@bhate.com)>

**Sent:** Thursday, January 5, 2023 10:27 AM

**To:** Will Moody <[will.moody@provectusenv.com](mailto:will.moody@provectusenv.com)>

**Subject:** Re: Phillips Mobile

Quotes for both options sounds good. ThAnks

Get [Outlook for iOS](#)

---

**From:** Will Moody <[will.moody@provectusenv.com](mailto:will.moody@provectusenv.com)>

**Sent:** Wednesday, January 4, 2023 3:43:20 PM

**To:** Emmett Beers <[ebeers@bhate.com](mailto:ebeers@bhate.com)>

**Subject:** RE: Phillips Mobile

Hi Emmett,

We've been successful using both supersacks (general spec attached) and bags, but typically the bags are only used in access limited situations since there is significantly less handling with the supersacks. I've also attached a few pictures showing both supersack and bag placement plus soil blending with a trackhoe. Ideally the reagents are applied at the base of the excavation and then partially blended (or tilled) within the first few feet of the saturated zone.

Based on the provided site information, approximately 2,000 lbs of Provect-OX2 would be the minimum mass I would recommend for the 30 ft x 20 ft source area (the maximum would be 3,800 lbs of Provect-OX2). Would you like a quotes for both options?

We can provide a liftgate and pallet jack for reagent offloading. I recommend the reagents are staged onsite prior to beginning excavation to ensure there are no delays.

Thanks,

Will

---

**From:** [GPRS Customer Service](#)  
**To:** [Emmett Beers](#)  
**Subject:** Re: RE: Fayette Fabrication Oneal Steel  
**Date:** Friday, April 7, 2023 1:49:36 PM  
**Attachments:** [1680893363064000\\_1391509605.png](#)  
[1680893363837000\\_22629858.png](#)  
[1680893364284010\\_1613929236.png](#)

---

Afternoon, Emmett-

Luke actually moved positions within the company, however I am happy to help. If you have a site address you could send over, that would be great! This would fall under our minimal day of \$700. Please let me know if you need a formal quote.

Thanks!



**Carlee Winzeler**

Project Coordinator

Customer Service Department | GPRS

504-418-6115

---



■ [www.gprsinc.com](http://www.gprsinc.com)



---- on Fri, 07 Apr 2023 13:46:32 -0400 "Emmett Beers"<[ebeers@bhate.com](mailto:ebeers@bhate.com)> wrote ----

Luke, We have a site on Airport Road in Mobile, Al where we need utilities marked in an approximate 600 sq ft area in an asphalt parking lot. We know that a natural gas line there (because we hit it a year ago). Could you send an estimate for me to include in proposal? Thx

**Emmett A. Beers**



**APPENDIX C**  
AUSTTF COST PROPOSALS

**Alabama Tank Trust Fund  
Cost Proposal  
Part I**

**I.1 Cost Proposal Information:**

Cost Proposal Number:	Date of Cost Proposal (mm/dd/yy):
78	4/5/2023
UST or AST Incident Number:	Facility I.D. Number:
UST97-10-09	13901-097-014477

**I.2 Facility Information**

Facility Name:	Former Phillips 66 - Delaney Property
Facility Address:	3659 Airport Highway Mobile, Mobile County, Alabama

**I.3 Owner Information:**

Owner Name:	Commerce Group, Inc.
Owner Address:	1280 West Newport Center Drive Deerfield Beach, Florida 33442

**I.4 Response Action Contractor Information:**

Approved Response Action Contractor Name:	Bhate Environmental Associates, Inc. 1608 13th Avenue South, Suite 300 Birmingham, Alabama 35205
Approved Response Action Contractor Address:	
Project Contact:	Emmett Beers
Project Contact Phone #:	205-918-4000
Project Contact E-mail:	<a href="mailto:ebeers@bhate.com">ebeers@bhate.com</a>
Employer Tax Number (IRS):	63-1035702

Cost Proposal Number:

78

Facility Name:

Former Phillips 66 - Delaney Property

**I.5 Activity Information:**

Indicate below the activities for which the cost proposal is submitted:	
<input type="checkbox"/>	Site Stabilization/Initial Abatement
<input type="checkbox"/>	Preliminary Investigation
<input type="checkbox"/>	Secondary Investigation / Additional Well Installation
<input type="checkbox"/>	Alabama Risk Based Corrective Action (ARBCA)
<input type="checkbox"/>	Groundwater Sampling
<input type="checkbox"/>	Free Product Removal/Mobile Enhanced Multiphase Extraction (MEME)
<input type="checkbox"/>	Corrective Action Plan Evaluation
<input type="checkbox"/>	Develop Corrective Action Plan
<input type="checkbox"/>	Corrective Action
<input type="checkbox"/>	Stockpile Sampling / Management / Disposal
<input type="checkbox"/>	Provision of Alternate Water Supply
<input type="checkbox"/>	Pilot Test
<input checked="" type="checkbox"/>	Monitoring/Recovery/Injection Well Abandonment
<input type="checkbox"/>	System Decommissioning/Removal
<b>Activities/Other/Brief Summary of Activities:</b>	
Well Abandonment	
Provide proposed completion date for this phase of work activities:	
6/1/2023	
Provide projected date of cleanup completed:	
1/1/2025	

**I.6 Subcontractor Information:**

Indicate Subcontractors to be used during this phase of work:	
Name & Address	Service Provided
None	

Cost Proposal Number:

78

Facility Name:

Former Phillips 66 - Delaney Property

Signatures must be provided in Sections I.7 and I.8 below for this proposal to be processed.

**I.7 Certification of Unintentional release of Motor Fuel & Cost Proposal- Owner Signature:**

I certify that an unintentional release has occurred from a motor fuel underground or aboveground tank system at this site and I authorize this Cost Proposal amount for corrective action activities to be conducted at this site.

1. Owner or Operator Signature:



Typed or Printed Name and Title:

Mr. William Ring - Vice President

Email address:

[wring@commerce-group.com](mailto:wring@commerce-group.com)

Date:

4/23/2023

**I.8 Cost Proposal- Contractor Signature:**

2. Response Action Contractor Signature:



Typed or Printed Name and Title:

Mr. Emmett Beers, Senior PM

Date:

4/23/2023

**I.9 Trust Fund Obligation Information:**

Estimated Total Cost of all Anticipated Response Actions (To be updated overtime):	\$800,000.00
Total of Previously Approved Cost Proposals:	\$617,202.00
Total Proposed Costs to Date (Approved Costs Plus Costs Proposed in this Cost Proposal):	\$627,507.50
Estimate Percent Completion of entire project to date:	78%

**I.10 Cost Proposal Amount**

Proposed Costs under this Cost Proposal:	\$10,305.50	Personnel	\$3,097.50
		Field Equipment	\$66.00
Owners Required Contribution for UST Release(\$5,000): <i>Applicable for CP#1 Only</i>		Mileage	\$262.00
		Per Diem	\$170.00
		Drilling	\$5,802.00
		Analytical	\$858.00
Owners Required Contribution for AST Release(\$10,000): <i>Applicable for CP#1 Only</i>		Other	\$50.00
<b>Total of This Cost Proposal:</b>	<b>\$10,305.50</b>		

## Part II- Alabama Tank Trust Fund Itemization Form "A" Cost Proposal

Complete forms "A" through "G" as applicable to site activities and for supporting attachments to Part I.

### Summary of ATTF Report and Plan Preparation Scenarios

<u>Scenarios</u>	<u>Unit \$</u>	<u>Units</u>	<u>Quantity</u>	<u>Requested\$</u>
Initial Abatement Report (other than just MEME)				
1-2 days in field	\$2,197	/job		
Adder amount for every field day over 2 days(not to exceed 14 days)	\$373	/day		
Initial Abatement Free Product Recovery Report	\$527	/job		
Preliminary Investigation Report	\$5,408	/site		
Secondary Plan (on and offsite)(once per site)	\$930	/site		
Secondary Report (up to 12 wells)	\$6,229	/site		
Adder per Wells installed over 8	\$166	/well		
Off-site access-Residential	\$201	/property		
Off-site access - Commercial	\$288	/property		
Off-site access - ALDOT	\$1,638	/property		
Additional Well Installation Plan (investigation 1-4 wells)	\$527	/plan		
Additional Well Installation Plan (investigation >4 wells)	\$904	/plan		
Additional Well Installation Report (1-4 wells)(as an adder)	\$1,287	/report		
Additional Well Installation Report (>4wells)(as an adder)	\$1,568	/report		
High Resolution Characterization Plan/Report (stand alone)	\$2,149	/pln/rprt		
Groundwater Monitoring Plan (GWM)	\$553	/site		
NAMR/GWM-Report				
1-12 wells, BTEX/MTBE/Naphthalene	\$1,306	/report		
1-12 wells, BTEX/MTBE+PAH	\$1,568	/report		
NAMR/GWM adder >12 wells, BTEX/MTBE/Naphthalene	\$41.50	/well		
NAMR/GWM adder >12 wells, BTEX/MTBE + PAH	\$58.10	/well		
FPR Plan -All free product recovery	\$872	/plan		
FPR Report -all free product reports (except MEME)	\$1,082	/report		
FPR Report-MEME	\$1,178	/report		
MEME/Injection Events (adder to report)	\$834	/report		
Adder amount for >3 MEME/Injection Events (per approved period)	\$326	/report		
ARBCA Report Tier I/RM 1				
1-12 wells, BTEX/MTBE/Naphthalene	\$4,389	/evaluation		
1-12 wells, BTEX/MTBE+PAH	\$4,651	/evaluation		
ARBCA Report Tier II/RM 2				
1-12 wells, BTEX/MTBE/Naphthalene	\$4,389	/evaluation		
1-12 wells, BTEX/MTBE+PAH	\$4,651	/evaluation		
ARBCA GRP Re Assessment(1-4 wells Gas)	\$566	/assessment		
ARBCA GRP Re Assessment(1-4 wells Diesel)	\$890	/assessment		
ARBCA adder for Gas > number of allocated wells	\$41.50	/well		
ARBCA adder for Diesel > number of allocated wells	\$49.80	/well		
ARBCA adder for Tier II WITH DECAY	\$2,514	/evaluation		
ARBCA Evaluation with Decay (stand alone evaluation)	\$3,803	/evaluation		
CAP Development - CA Evaluation (once per site)	\$3,761	/site		
CAP Development - RNA	\$1,745	/cap		
CAP Development - RNA with MEME	\$1,860	/cap		
CAP Development - Excavation	\$1,821	/cap		
CAP Development - Liquid Injections	\$5,132	/cap		
CAP Development (Class 1)- DPVE, P&T with SVE	\$7,684	/cap		

Complete forms "A" through "G" as applicable to site activities and for supporting attachments to Part I.

**Summary of ATTF Report and Plan Preparation Scenarios**

Scenarios	Unit \$	Units	Quantity Requested	\$
CAP Development (Class 2) - Ozone/SVE, AS/SVE, Liquid Chemox/Biox	\$6,780	/cap		
CAP Development (Class 3) - Ozone, AS, SVE	\$6,252	/cap		
CAP Modification (use Form "F" for input)		/cap		
CAP Implementation Report - Excavation	\$2,278	/report		
CAP Implementation Report -Liquid Injections	\$2,901	/report		
CA System Installation Report (all Classes same)	\$8,344	/report		
SEMR - DPVE, P&T Reports				
1-12 wells, BTEX/MTBE/Naphthalene	\$5,444	/report		
1-12 wells, BTEX/MTBE+PAH	\$5,706	/report		
SEMR - Ozone, AS, SVE, Chemox, Biosparge - Reports				
1-12 wells, BTEX/MTBE/Naphthalene	\$4,830	/report		
1-12 wells, BTEX/MTBE+PAH	\$5,092	/report		
SEMR adder >12 wells, BTEX/MTBE/Naph	\$41.50	/well		
SEMR adder >12 wells, BTEX/MTBE+PAH	\$49.80	/well		
IDW/Treatment Disposal Report (stand alone)	\$1,012	/report		
DPVE Pilot Test Plan (not for Slug Test)	\$1,179	/plan		
DPVE Pilot Test Report	\$1,853	/report		
AS/SVE or Ozone Pilot Test Plan	\$1,179	/plan		
AS/SVE or Ozone Pilot Test Report	\$1,853	/report		
ISCO or Bioremediation Pilot Test Plan	\$1,179	/plan		
ISCO or Bioremediation Pilot Test Report	\$2,045	/report		
Specific Capacity Test Plan	\$400	/plan		
Specific Capacity Test Report	\$1,536	/report		
System Purchase Letter	\$1,452	/ltr		
Monitoring Well Abandonment Plan	\$487	/plan		
Monitoring Well Abandonment Report	\$1,082	/report	1	\$1,082.00
System Decommissioning Plan	\$968	/plan		
System Decommissioning Report	\$1,926	/report		
Alternate Water Supply Plan	\$757	/plan		
Alternate Water Supply Report	\$1,178	/report		
Public Water Line Replacement Plan	\$1,102	/plan		
Public Water Line Replacement Report	\$1,638	/report		
Adjacent Property Owner Information (additional effort)	\$328.50	/document		
UIC Permit Application Preparation	\$1,331	/permit		
UIC General Permit Application Preparation	\$853	/permit		
UIC General Permit Application Renewal	\$470	/renewal		
General NPDES Application Preparation	\$853	/permit		
General NPDES Application Renewal	\$470	/renewal		
ADEM Solid Waste Profile Preparation	\$239.50	/profile	1	\$239.50
Municipal Sewer Application Process (ADEM or Others)	\$517	/profile		
Environmental Covenant Preparation	\$611	/covenant		
Cost Proposal Tier I Addendum Preparation	\$115	/addendum		
Cost Proposal Tier II Addendum Preparation	\$362	/addendum		
ADEM Approved Amount				
Other Plan/Report (use Form "F" for input)				
<b>Total Report and Plan Costs</b>				<b>\$1,321.50</b>

<b>Part II- Alabama Tank Trust Fund Itemization Form "B" Cost Proposal</b>			
<b>Summary of ATTF Field Scenarios</b>			
<u>Scenarios</u>	<u>Unit \$ Unit</u>	<u>Quantity</u>	<u>Requested\$</u>
<b>Well Installation Oversight time</b>			
Type II Porous Media Drilling			
Porous material 0-10 feet	\$227.00 /well		
Porous material 0-30 feet	\$358 /well		
Porous material 0-50 feet	\$777.00 /well		
Porous material 0-70 feet	\$1,004 /well		
Porous material 0-90 feet	\$1,231.00 /well		
Porous material 0-110 feet	\$1,458 /well		
Type II Bedrock Drilling			
Bedrock 0-20' Air Rotary Drilling	\$358 /well		
Bedrock 0-40' Air Rotary Drilling	\$489.00 /well		
Bedrock 0-60' Air Rotary Drilling	\$716 /well		
Bedrock 0-80' Air Rotary Drilling	\$943.00 /well		
Bedrock 0-20' Core Drilling	\$454 /well		
Bedrock 0-40' Core Drilling	\$777.00 /well		
Bedrock 0-60' Core Drilling	\$908 /well		
Bedrock 0-80' Core Drilling	\$1,135.00 /well		
Type III Well Porous (Depth of entire well)			
Type III Well 0-20' (entire well in porous material)	\$406.00 /well		
Type III Well 0-40' (entire well in porous material)	\$633 /well		
Type III Well 0-60' (entire well in porous material)	\$860 /well		
Type III Well 0-80' (entire well in porous material)	\$1,087 /well		
Type III Well 0-100' (entire well in porous material)	\$1,314.00 /well		
Type III Well Bedrock (Depth of entire well)			
Type III Well 0-20' (bedrock encountered)	\$454 /well		
Type III Well 0-40' (bedrock encountered)	\$681.00 /well		
Type III Well 0-60' (bedrock encountered)	\$908 /well		
Type III Well 0-80' (bedrock encountered)	\$1,135.00 /well		
Type III Well 0-100' (bedrock encountered)	\$1,362 /well		
Soil Boring (no well set)/Direct Push oversight			
Soil Boring porous material 0-10 feet	\$144.00 /well		
Soil Boring porous material 0-30 feet	\$240.00 /well		
Soil Boring porous material 0-50 feet	\$336.00 /well		
Soil Boring porous material 0-70 feet	\$528.00 /well		
Direct Push (Geologist Daily Charge or 8 probe points)	\$960.00 /day	1	\$960.00
High Resolution Imaging Field Time and Oversight	\$1,356.00 /day		
<b>Other Field Activities</b>			
Well Re-Development (initial development included in drilling oversight costs)	\$105.00 /well		
Slug Tests	\$332.00 /well		
Private/Public Water Well Inventory (up to 5 wells)	\$384.00 /5wells		
Site Survey during Investigation (not a Licensed Surveyor)	\$280.00 /sow		
RW Vault Abandonment Oversight	\$96.00 /vault		
MW/RW/IW Abandonment Oversight for Overdrilling	\$288.00 /well		
MW/RW/IW Abandonment Oversight for Grouting in Casing	\$144.00 /well	3	\$432.00
Monitoring Well Pad/Cover Repair/ Replacement	\$140.00 /well		
Groundwater Sampling Set-up (2hrs tech time)	\$140.00 /sow		
Purge/Development Water Handling (see Basis)	\$105.00 /sow		
Gauging Well (no sampling)	\$17.50 /well		
Groundwater Sampling and Gauging 2" Well	\$70.00 /well		
Groundwater Sampling and Gauging 4" Well	\$80.50 /well		



## Part II- Alabama Tank Trust Fund Itemization Form "B" Cost Proposal

### Summary of ATTF Field Scenarios

Scenarios	Unit \$ Unit	Quantity	Requested\$
Groundwater Sampling and Gauging 6" Well	\$87.50 /well		
Sample Public Well	\$140 /well		
Sample Private Well	\$105.00 /well		
Sample Stream (up to 3 samples)	\$105.00 /stream		
Soil Sampling Setup (1-4 wells)	\$192 /sow		
Soil Sampling Setup adder (each additional group of 4 wells)	\$96 /sow		
MEME Event/Pilot Test/Injection Event (hourly rate)	\$70 /hr		
DPVE Pilot Test/Aquifer Test (hourly rate)	\$166 /hr		
SVE/ AS/ Ozone Pilot Test	\$864 /test		
Site Visit by PE/PG (CAP Development,etc)	\$1,056 /site		
System Installation Oversight (up to 7 days in field)	\$9,616 /system		
System Installation Oversight Adder (per day over 7 doc req.)	\$1,075 /day		
System Startup	\$1,840 /system		
System Decommissioning	\$1,141 /day		
DPVE, Pump and Treat O&M 3 months	\$4,280 /quarter		
DPVE, Pump and Treat O&M 4 months	\$5,400 /triannual		
Ozone, biosparge, SVE, biovent and Air Sparge O&M 3 months	\$2,140 /quarter		
Ozone, biosparge, SVE, biovent and Air Sparge O&M 4 months	\$2,700 /triannual		
ADEM Approved Amount			
Other Field Work not listed (use Form "F" for input)			
Emergency Response (Contact ADEM for approval)			
Travel			
<b>Mileage Rate</b>		\$0.655	
Mileage (One way office to site)		200	
Number of round trips to site		1	\$262.00
Other Mileage (enter total mileage not including office to site)			
<b>Personnel Travel Time (entered in Hours)</b>			
Technician(s)-travel time	\$70 /hr		
Geologist/Engineer-travel time	\$96 /hr	4	\$384.00
PG/PE-travel time	\$132 /hr		
Project Manager-travel time	\$115 /hr		
<b>Per Diem</b>			
Per diem (6-12hrs)	\$12.75 /day		
Per diem (greater than 12hrs)	\$34 /ext. day		
Per diem 2 days (overnight)(invoice(s) required)	\$85 /day	2	\$170.00
Per diem >2 consecutive days (overnight)(invoice(s) required)	\$100 /day		
Equipment and Equipment Kits			
55-Gallon Drums	\$75 /drum		
Sampling Expendables(gloves, ice, string, jars, foil, distilled water, paper towels, etc.)	\$55 /sow		
Expendables O&M	\$28 /day		
Monitoring Well Development	\$83 /day		
Monitoring Well/Boring Installation	\$66 /day		
Monitoring Well/Boring Abandonment	\$66 /day	1	\$66.00
Encore Samplers	\$10 /sample		
Groundwater Monitoring	\$176 /day		
Bailers	\$8 /bailer		
MEME Event	\$77 /event		
Free Product Bailing	\$66 /sow		
DPVE, SVE, AS, P&T O&M	\$160 /day		
Ozone Sparge O&M	\$83 /day		
DPVE Pilot Test	\$77 /sow		
Pumping Test	\$182 /sow		
Specific Capacity	\$72 /sow		
Slug Test	\$121 /sow		
Initial Abatement	\$55 /day		



**Part II- Alabama Tank Trust Fund Itemization Form "B" Cost Proposal**

**Summary of ATTF Field Scenarios**

<u>Scenarios</u>	<u>Unit \$ Unit</u>	<u>Quantity</u>	<u>Requested\$</u>
Postage / Shipping and Copying (plans reports, ADEM and owner)	\$85 /sow		
Postage / Shipping (Sample Shipping)	\$50 /samples	1	\$50.00
Postage / Shipping (documentation required)			

**Analytical Samples**

	<u>Method</u>		<u>Pass Through</u>	<u>Sample #</u>	
BTEX/MTBE/Naph (water)	8021	\$65 /sample			
BTEX/MTBE/Naph (soil)	8021	\$65 /sample	10%	12	\$858.00
PAH (water)	8270	\$130 /sample			
PAH (soil)	8270	\$130 /sample			
Lead (water)	239.2	\$25 /sample			
Lead (soil)	239.2	\$25 /sample			
TPH	418.1	\$50 /sample			
PAH Water Supply	525.1	\$275 /sample			
VOC Water Supply	8260	\$65 /sample			
Dibromoethane 1,2, EDB	8011	\$65 /sample			
Dichloroethane 1,2 EDC	8260	\$65 /sample			
tert-Butyl alcohol	8015D	\$65 /sample			
Ethanol	8015D	\$65 /sample			
Oil & Grease		\$50 /sample			
Air Samples (System Influent)		\$100 /sample			
Dry Bulk Density		\$20 /sample			
Grain Size Analysis		\$40 /sample			
Specific Gravity		\$20 /sample			
Moisture Content		\$15 /sample			
Nitrate		\$20 /sample			
Sulfate		\$20 /sample			
Iron		\$20 /sample			
FOM (ASTM 2947)		\$40 /sample			
Total Organic Carbon (Walkley Black)		/sample			
Chloride		/sample			
Foaming Agents		/sample			
Total Dissolved Solids		/sample			
Other		/sample			
Other		/sample			
Other		/sample			

**Total Field Costs \$3,182.00**

## Part II- Alabama Tank Trust Fund Itemization Form "C" Cost Proposal

### Drilling

Scenarios	Unit \$ Unit	Quantity	Requested\$
Mileage Rate (Current Federal Rate)		\$0.655	
Mileage (drilling device driven or ATV) ( <b>ONE WAY</b> mileage up to 450 miles) <sup>1</sup>	\$3.93 /mile	200	
Number of Mobilizations (includes \$300 mob/demob amount)		1	\$1,872.00
Mileage (drilling device "hauled" to the site)( <b>ONE WAY</b> mileage up to 450 miles) <sup>1</sup> (direct push, skid steer, etc.)	\$1.97 /mile		
Number of Mobilizations (includes \$300 mob/demob amount)			
Well Completions			
Well Pad Completions for Monitoring Wells (2" and 4")(up to 8" cover) <sup>2</sup>	\$205.00 /well		
Well Pad Completions for Monitoring Wells (2" and 4")(12" cover) <sup>2</sup>	\$242.00 /well		
Well Pad Completions for Recovery/Extraction Wells (2'x2') <sup>2</sup>			
Well Pad Completions Recovery/Extraction Wells non hinged lid (2'x2') <sup>2</sup>			
Alternate Screen for Recovery/Extraction Wells per/ft(Quotes Required) <sup>4</sup>			
Unconsolidated Media Drilling			
1" / 2" Monitoring Well/Injection Well (HSA) <sup>3</sup>	\$65.00 /foot		
4" Monitoring Well (HSA) <sup>3</sup>	\$70.00 /foot		
Type III Well (HSA) <sup>5</sup>	\$145.00 /foot		
Soil Boring (HSA) per ft (includes tremie grout abandonment) <sup>6</sup>	\$30.00 /foot		
Temporary Well (HSA) per ft (includes tremie grout abandonment) <sup>6</sup>	\$36.00 /foot		
Sonic Drilling			
Bedrock Drilling			
Air Rotary Rock Drilling per ft (2") <sup>3</sup>	\$71.00 /foot		
Air Rotary Rock Drilling per ft (4") <sup>3</sup>	\$77.00 /foot		
Type III Well <sup>5</sup>	\$145.00 /foot		
Air Compressor			
Rock Coring	\$49.00 /foot		
Direct Push Technology			
Direct Push per day (includes all personnel time) <sup>6</sup>	\$2,320 /day	1	\$2,320.00
Direct Push well install materials per foot	\$10.00 /ft		
Other Drilling Related Items			
MW/RW Pad Removal (if pad removed)	\$115.00 /pad		
2" MW/RW Abandonment by Overdrilling then tremie grouted <sup>3</sup>	\$35.00 /foot		
4" MW/RW Abandonment by Overdrilling then tremie grouted <sup>3</sup>	\$45.00 /foot		
MW/RW Tremie Grout Abandonment (remove well casing to approximately 3' and fill remainder) <sup>3</sup>	\$18.00 /foot	80	\$1,440.00
Recovery Well Vault removal and backfill w/concrete (2'x2') <sup>7</sup>	\$550.00 /vault		
Recovery Well Vault backfill w/concrete only (2'x2')	\$250.00 /vault		
Drums	\$75.00 /drum		
Shelby Tubes	\$58.00 /tube		
Per Diem (overnight) (man days)(hotel receipts required)	\$85.00 /day	2	\$170.00
Other (receipts required)			
Other (receipts required)			
Other (receipts required)			
Pass Through (if appropriate) Enter "5" or "10" as appropriate			
<small>1 Mileage (enter ONE WAY miles) for any and all support vehicles, trailers, equipment, and personnel travel time            2 Includes labor, concrete, forms (if needed), bolt down covers, caps, vaults, and locks            3 Includes personnel, screen, risers, bentonite, sand, silt sleeves, decon, skid steer, saw cutting, coring, safety equipment, plastic sheeting, water, etc.            4 If an alternative type screen is warranted instead of typical pvc slotted screen (i.e. continuous screen, stainless steel, etc.)            5 Includes personnel, outer and inner casing of entire well, screen, grout, decon, skid steer, saw cutting, coring, safety equipment, plastic sheeting, water, etc.            6 Includes well pad removal and surface completion as per surrounding            7 If costs are to exceed this amount a detailed quote should be included and costs listed below or on "Form D"            8 The sum of the amounts for Drilling Activities will be a minimum of \$3,000</small>			
<b>Total Drilling Costs</b>			<b>\$5,802.00</b>

Part II- Alabama Tank Trust Fund Itemization Form "E" Cost Proposal							
Per diem allowed for Alabama Tank Trust Fund Contractor Personnel Only Maximum allowable rates are referenced on the "Maximum Rates" Tab in this document. This page should be submitted whenever per diem is being claimed.							
Points of Travel		Projected Date mm/dd/yy	Personnel Classification	Hour of Departure am/pm	Hour of Return am/pm	Activity To Be Performed	Amount Per diem claimed
From	To						
Use this section to enter claims for daily per diems							
					Total number of daily per diems	0	
Use this section to enter claims for extended daily per diems							
					Total number of ext. daily per diems	0	
Use this section to enter claims for overnight per diems							
Bham	Mobile		Geologist			Well Closure	\$85.00
Mobile	Bham		Geologist			Soil Sampling	\$85.00
					Total number of overnight per diems	2	

Part II- Alabama Tank Trust Fund Itemization Form "E" Cost Proposal Additional Sheet						
Per diem allowed for Alabama Tank Trust Fund Contractor Personnel Only Maximum allowable rates are referenced on the "Maximum Rates" Tab in this document.						
Points of Travel From To	Projected Date mm/dd/yy	Personnel Classification	Hour of Departure am/pm	Hour of Return am/pm	City of Overnight Stay	Amount Per diem claimed
Use this section to enter claims for daily per diems						
Total number of daily per diems						0
Use this section to enter claims for extended daily per diems						
Total number of ext. daily per diems						0
Use this section to enter claims for overnight per diems						
Total number of overnight per diems						0

**Alabama Tank Trust Fund  
Cost Proposal  
Part I**

**I.1 Cost Proposal Information:**

Cost Proposal Number:	Date of Cost Proposal (mm/dd/yy):
79	4/5/2023
UST or AST Incident Number:	Facility I.D. Number:
UST97-10-09	13901-097-014477

**I.2 Facility Information**

Facility Name:	Former Phillips 66 - Delaney Property
Facility Address:	3659 Airport Highway Mobile, Mobile County, Alabama

**I.3 Owner Information:**

Owner Name:	Commerce Group, Inc.
Owner Address:	1280 West Newport Center Drive Deerfield Beach, Florida 33442

**I.4 Response Action Contractor Information:**

Approved Response Action Contractor Name:	Bhate Environmental Associates, Inc. 1608 13th Avenue South, Suite 300 Birmingham, Alabama 35205
Approved Response Action Contractor Address:	
Project Contact:	Emmett Beers
Project Contact Phone #:	205-918-4000
Project Contact E-mail:	<a href="mailto:ebeers@bhate.com">ebeers@bhate.com</a>
Employer Tax Number (IRS):	63-1035702

Cost Proposal Number:

79

Facility Name:

Former Phillips 66 - Delaney Property

**I.5 Activity Information:**

Indicate below the activities for which the cost proposal is submitted:

<input type="checkbox"/>	Site Stabilization/Initial Abatement
<input type="checkbox"/>	Preliminary Investigation
<input type="checkbox"/>	Secondary Investigation / Additional Well Installation
<input type="checkbox"/>	Alabama Risk Based Corrective Action (ARBCA)
<input type="checkbox"/>	Groundwater Sampling
<input type="checkbox"/>	Free Product Removal/Mobile Enhanced Multiphase Extraction (MEME)
<input type="checkbox"/>	Corrective Action Plan Evaluation
<input type="checkbox"/>	Develop Corrective Action Plan
<input checked="" type="checkbox"/>	Corrective Action
<input type="checkbox"/>	Stockpile Sampling / Management / Disposal
<input type="checkbox"/>	Provision of Alternate Water Supply
<input type="checkbox"/>	Pilot Test
<input type="checkbox"/>	Monitoring/Recovery/Injection Well Abandonment
<input type="checkbox"/>	System Decommissioning/Removal

**Activities/Other/Brief Summary of Activities:**

Soil Excavation and disposal, backfill, Provectus application, Asphalt resurface of excavation pit

Provide proposed completion date for this phase of work activities:

9/1/2023

Provide projected date of cleanup completed:

1/1/2025

**I.6 Subcontractor Information:**

Indicate Subcontractors to be used during this phase of work:

Name & Address	Service Provided
Singley Environmental	Soil Excavation

Cost Proposal Number:

79


Facility Name:

Former Phillips 66 - Delaney Property


Signatures must be provided in Sections I.7 and I.8 below for this proposal to be processed.

**I.7 Certification of Unintentional release of Motor Fuel & Cost Proposal- Owner Signature:**

I certify that an unintentional release has occurred from a motor fuel underground or aboveground tank system at this site and I authorize this Cost Proposal amount for corrective action activities to be conducted at this site.

1. Owner or Operator Signature:	
Typed or Printed Name and Title:	Mr. William Ring - Vice President
Email address:	<a href="mailto:wring@commerce-group.com">wring@commerce-group.com</a>
Date:	4/23/2023

**I.8 Cost Proposal- Contractor Signature:**

2. Response Action Contractor Signature:	
Typed or Printed Name and Title:	Mr. Emmett Beers, Senior PM
Date:	4/23/2023

**I.9 Trust Fund Obligation Information:**

Estimated Total Cost of all Anticipated Response Actions (To be updated overtime):	\$800,000.00
Total of Previously Approved Cost Proposals:	\$626,877.00
Total Proposed Costs to Date (Approved Costs Plus Costs Proposed in this Cost Proposal):	\$726,619.00
Estimate Percent Completion of entire project to date:	91%

**I.10 Cost Proposal Amount**

Proposed Costs under this Cost Proposal:	\$99,742.00	Personnel	\$8,710.00
		Field Equipment	\$0.00
Owners Required Contribution for UST Release(\$5,000): <i>Applicable for CP#1 Only</i>		Mileage	\$524.00
		Per Diem	\$500.00
		Drilling	\$0.00
		Analytical	\$858.00
Owners Required Contribution for AST Release(\$10,000): <i>Applicable for CP#1 Only</i>		Other	\$89,150.00
<b>Total of This Cost Proposal:</b>	<b>\$99,742.00</b>		

## Part II- Alabama Tank Trust Fund Itemization Form "A" Cost Proposal

Complete forms "A" through "G" as applicable to site activities and for supporting attachments to Part I.

### Summary of ATTF Report and Plan Preparation Scenarios

<u>Scenarios</u>	<u>Unit \$</u>	<u>Units</u>	<u>Quantity</u>	<u>Requested\$</u>
Initial Abatement Report (other than just MEME)				
1-2 days in field	\$2,197	/job		
Adder amount for every field day over 2 days(not to exceed 14 days)	\$373	/day		
Initial Abatement Free Product Recovery Report	\$527	/job		
Preliminary Investigation Report	\$5,408	/site		
Secondary Plan (on and offsite)(once per site)	\$930	/site		
Secondary Report (up to 12 wells)	\$6,229	/site		
Adder per Wells installed over 8	\$166	/well		
Off-site access-Residential	\$201	/property		
Off-site access - Commercial	\$288	/property		
Off-site access - ALDOT	\$1,638	/property		
Additional Well Installation Plan (investigation 1-4 wells)	\$527	/plan		
Additional Well Installation Plan (investigation >4 wells)	\$904	/plan		
Additional Well Installation Report (1-4 wells)(as an adder)	\$1,287	/report		
Additional Well Installation Report (>4wells)(as an adder)	\$1,568	/report		
High Resolution Characterization Plan/Report (stand alone)	\$2,149	/pln/rprt		
Groundwater Monitoring Plan (GWM)	\$553	/site		
NAMR/GWM-Report				
1-12 wells, BTEX/MTBE/Naphthalene	\$1,306	/report		
1-12 wells, BTEX/MTBE+PAH	\$1,568	/report		
NAMR/GWM adder >12 wells, BTEX/MTBE/Naphthalene	\$41.50	/well		
NAMR/GWM adder >12 wells, BTEX/MTBE + PAH	\$58.10	/well		
FPR Plan -All free product recovery	\$872	/plan		
FPR Report -all free product reports (except MEME)	\$1,082	/report		
FPR Report-MEME	\$1,178	/report		
MEME/Injection Events (adder to report)	\$834	/report		
Adder amount for >3 MEME/Injection Events (per approved period)	\$326	/report		
ARBCA Report Tier I/RM 1				
1-12 wells, BTEX/MTBE/Naphthalene	\$4,389	/evaluation		
1-12 wells, BTEX/MTBE+PAH	\$4,651	/evaluation		
ARBCA Report Tier II/RM 2				
1-12 wells, BTEX/MTBE/Naphthalene	\$4,389	/evaluation		
1-12 wells, BTEX/MTBE+PAH	\$4,651	/evaluation		
ARBCA GRP Re Assessment(1-4 wells Gas)	\$566	/assessment		
ARBCA GRP Re Assessment(1-4 wells Diesel)	\$890	/assessment		
ARBCA adder for Gas > number of allocated wells	\$41.50	/well		
ARBCA adder for Diesel > number of allocated wells	\$49.80	/well		
ARBCA adder for Tier II WITH DECAY	\$2,514	/evaluation		
ARBCA Evaluation with Decay (stand alone evaluation)	\$3,803	/evaluation		
CAP Development - CA Evaluation (once per site)	\$3,761	/site		
CAP Development - RNA	\$1,745	/cap		
CAP Development - RNA with MEME	\$1,860	/cap		
CAP Development - Excavation	\$1,821	/cap		
CAP Development - Liquid Injections	\$5,132	/cap		
CAP Development (Class 1)- DPVE, P&T with SVE	\$7,684	/cap		



Complete forms "A" through "G" as applicable to site activities and for supporting attachments to Part I.

**Summary of ATTF Report and Plan Preparation Scenarios**

Scenarios	Unit \$ Units	Quantity	Requested\$
CAP Development (Class 2) - Ozone/SVE, AS/SVE, Liquid Chemox/Biox	\$6,780 /cap		
CAP Development (Class 3) - Ozone, AS, SVE	\$6,252 /cap		
CAP Modification (use Form "F" for input)			
CAP Implementation Report - Excavation	\$2,278 /report	1	\$2,278.00
CAP Implementation Report -Liquid Injections	\$2,901 /report		
CA System Installation Report (all Classes same)	\$8,344 /report		
SEMR - DPVE, P&T Reports			
1-12 wells, BTEX/MTBE/Naphthalene	\$5,444 /report		
1-12 wells, BTEX/MTBE+PAH	\$5,706 /report		
SEMR - Ozone, AS, SVE, Chemox, Biosparge - Reports			
1-12 wells, BTEX/MTBE/Naphthalene	\$4,830 /report		
1-12 wells, BTEX/MTBE+PAH	\$5,092 /report		
SEMR adder >12 wells, BTEX/MTBE/Naph	\$41.50 /well		
SEMR adder >12 wells, BTEX/MTBE+PAH	\$49.80 /well		
IDW/Treatment Disposal Report (stand alone)	\$1,012 /report		
DPVE Pilot Test Plan (not for Slug Test)	\$1,179 /plan		
DPVE Pilot Test Report	\$1,853 /report		
AS/SVE or Ozone Pilot Test Plan	\$1,179 /plan		
AS/SVE or Ozone Pilot Test Report	\$1,853 /report		
ISCO or Bioremediation Pilot Test Plan	\$1,179 /plan		
ISCO or Bioremediation Pilot Test Report	\$2,045 /report		
Specific Capacity Test Plan	\$400 /plan		
Specific Capacity Test Report	\$1,536 /report		
System Purchase Letter	\$1,452 /ltr		
Monitoring Well Abandonment Plan	\$487 /plan		
Monitoring Well Abandonment Report	\$1,082 /report		
System Decommissioning Plan	\$968 /plan		
System Decommissioning Report	\$1,926 /report		
Alternate Water Supply Plan	\$757 /plan		
Alternate Water Supply Report	\$1,178 /report		
Public Water Line Replacement Plan	\$1,102 /plan		
Public Water Line Replacement Report	\$1,638 /report		
Adjacent Property Owner Information (additional effort)	\$328.50 /document		
UIC Permit Application Preparation	\$1,331 /permit		
UIC General Permit Application Preparation	\$853 /permit		
UIC General Permit Application Renewal	\$470 /renewal		
General NPDES Application Preparation	\$853 /permit		
General NPDES Application Renewal	\$470 /renewal		
ADEM Solid Waste Profile Preparation	\$239.50 /profile		
Municipal Sewer Application Process (ADEM or Others)	\$517 /profile		
Environmental Covenant Preparation	\$611 /covenant		
Cost Proposal Tier I Addendum Preparation	\$115 /addendum		
Cost Proposal Tier II Addendum Preparation	\$362 /addendum		
ADEM Approved Amount			
Other Plan/Report (use Form "F" for input)			
<b>Total Report and Plan Costs</b>			<b>\$2,278.00</b>

<b>Part II- Alabama Tank Trust Fund Itemization Form "B" Cost Proposal</b>			
<b>Summary of ATTF Field Scenarios</b>			
<u>Scenarios</u>	<u>Unit \$</u>	<u>Unit</u>	<u>Quantity Requested</u> \$
<b>Well Installation Oversight time</b>			
Type II Porous Media Drilling			
Porous material 0-10 feet	\$227.00 /well		
Porous material 0-30 feet	\$358 /well		
Porous material 0-50 feet	\$777.00 /well		
Porous material 0-70 feet	\$1,004 /well		
Porous material 0-90 feet	\$1,231.00 /well		
Porous material 0-110 feet	\$1,458 /well		
Type II Bedrock Drilling			
Bedrock 0-20' Air Rotary Drilling	\$358 /well		
Bedrock 0-40' Air Rotary Drilling	\$489.00 /well		
Bedrock 0-60' Air Rotary Drilling	\$716 /well		
Bedrock 0-80' Air Rotary Drilling	\$943.00 /well		
Bedrock 0-20' Core Drilling	\$454 /well		
Bedrock 0-40' Core Drilling	\$777.00 /well		
Bedrock 0-60' Core Drilling	\$908 /well		
Bedrock 0-80' Core Drilling	\$1,135.00 /well		
Type III Well Porous (Depth of entire well)			
Type III Well 0-20' (entire well in porous material)	\$406.00 /well		
Type III Well 0-40' (entire well in porous material)	\$633 /well		
Type III Well 0-60' (entire well in porous material)	\$860 /well		
Type III Well 0-80' (entire well in porous material)	\$1,087 /well		
Type III Well 0-100' (entire well in porous material)	\$1,314.00 /well		
Type III Well Bedrock (Depth of entire well)			
Type III Well 0-20' (bedrock encountered)	\$454 /well		
Type III Well 0-40' (bedrock encountered)	\$681.00 /well		
Type III Well 0-60' (bedrock encountered)	\$908 /well		
Type III Well 0-80' (bedrock encountered)	\$1,135.00 /well		
Type III Well 0-100' (bedrock encountered)	\$1,362 /well		
Soil Boring (no well set)/Direct Push oversight			
Soil Boring porous material 0-10 feet	\$144.00 /well		
Soil Boring porous material 0-30 feet	\$240.00 /well		
Soil Boring porous material 0-50 feet	\$336.00 /well		
Soil Boring porous material 0-70 feet	\$528.00 /well		
Direct Push (Geologist Daily Charge or 8 probe points)	\$960.00 /day		
High Resolution Imaging Field Time and Oversight	\$1,356.00 /day		
<b>Other Field Activities</b>			
Well Re-Development (initial development included in drilling oversight costs)	\$105.00 /well		
Slug Tests	\$332.00 /well		
Private/Public Water Well Inventory (up to 5 wells)	\$384.00 /5wells		
Site Survey during Investigation (not a Licensed Surveyor)	\$280.00 /sow		
RW Vault Abandonment Oversight	\$96.00 /vault		
MW/RW/IW Abandonment Oversight for Overdrilling	\$288.00 /well		
MW/RW/IW Abandonment Oversight for Grouting in Casing	\$144.00 /well		
Monitoring Well Pad/Cover Repair/ Replacement	\$140.00 /well		
Groundwater Sampling Set-up (2hrs tech time)	\$140.00 /sow		
Purge/Development Water Handling (see Basis)	\$105.00 /sow		
Gauging Well (no sampling)	\$17.50 /well		
Groundwater Sampling and Gauging 2" Well	\$70.00 /well		
Groundwater Sampling and Gauging 4" Well	\$80.50 /well		

## Part II- Alabama Tank Trust Fund Itemization Form "B" Cost Proposal

### Summary of ATTF Field Scenarios

Scenarios	Unit \$ Unit	Quantity	Requested\$
Groundwater Sampling and Gauging 6" Well	\$87.50 /well		
Sample Public Well	\$140 /well		
Sample Private Well	\$105.00 /well		
Sample Stream (up to 3 samples)	\$105.00 /stream		
Soil Sampling Setup (1-4 wells)	\$192 /sow		
Soil Sampling Setup adder (each additional group of 4 wells)	\$96 /sow		
MEME Event/Pilot Test/Injection Event (hourly rate)	\$70 /hr		
DPVE Pilot Test/Aquifer Test (hourly rate)	\$166 /hr		
SVE/ AS/ Ozone Pilot Test	\$864 /test		
Site Visit by PE/PG (CAP Development,etc)	\$1,056 /site		
System Installation Oversight (up to 7 days in field)	\$9,616 /system		
System Installation Oversight Adder (per day over 7 doc req.)	\$1,075 /day		
System Startup	\$1,840 /system		
System Decommissioning	\$1,141 /day		
DPVE, Pump and Treat O&M 3 months	\$4,280 /quarter		
DPVE, Pump and Treat O&M 4 months	\$5,400 /triannual		
Ozone, biosparge, SVE, biovent and Air Sparge O&M 3 months	\$2,140 /quarter		
Ozone, biosparge, SVE, biovent and Air Sparge O&M 4 months	\$2,700 /triannual		
ADEM Approved Amount			
Other Field Work not listed (use Form "F" for input)	\$5,664.00	1	\$5,664.00
Emergency Response (Contact ADEM for approval)			
Travel			
<b>Mileage Rate</b>		\$0.655	
Mileage (One way office to site)		200	
Number of round trips to site		2	\$524.00
Other Mileage (enter total mileage not including office to site)			
<b>Personnel Travel Time (entered in Hours)</b>			
Technician(s)-travel time	\$70 /hr		
Geologist/Engineer-travel time	\$96 /hr	8	\$768.00
PG/PE-travel time	\$132 /hr		
Project Manager-travel time	\$115 /hr		
<b>Per Diem</b>			
Per diem (6-12hrs)	\$12.75 /day		
Per diem (greater than 12hrs)	\$34 /ext. day		
Per diem 2 days (overnight)(invoice(s) required)	\$85 /day		
Per diem >2 consecutive days (overnight)(invoice(s) required)	\$100 /day	5	\$500.00
Equipment and Equipment Kits			
55-Gallon Drums	\$75 /drum		
Sampling Expendables(gloves, ice, string, jars, foil, distilled water, paper towels, etc.)	\$55 /sow		
Expendables O&M	\$28 /day		
Monitoring Well Development	\$83 /day		
Monitoring Well/Boring Installation	\$66 /day		
Monitoring Well/Boring Abandonment	\$66 /day		
Encore Samplers	\$10 /sample		
Groundwater Monitoring	\$176 /day		
Bailers	\$8 /bailer		
MEME Event	\$77 /event		
Free Product Bailing	\$66 /sow		
DPVE, SVE, AS, P&T O&M	\$160 /day		
Ozone Sparge O&M	\$83 /day		
DPVE Pilot Test	\$77 /sow		
Pumping Test	\$182 /sow		
Specific Capacity	\$72 /sow		
Slug Test	\$121 /sow		
Initial Abatement	\$55 /day		

**Part II- Alabama Tank Trust Fund Itemization Form "B" Cost Proposal**

**Summary of ATTF Field Scenarios**

<u>Scenarios</u>	<u>Unit \$ Unit</u>	<u>Quantity</u>	<u>Requested\$</u>
Postage / Shipping and Copying (plans reports, ADEM and owner)	\$85 /sow		
Postage / Shipping (Sample Shipping)	\$50 /samples	1	\$50.00
Postage / Shipping (documentation required)			

**Analytical Samples**

	<u>Method</u>		<u>Pass Through</u>	<u>Sample #</u>	
BTEX/MTBE/Naph (water)	8021	\$65 /sample			
BTEX/MTBE/Naph (soil)	8021	\$65 /sample	10%	12	\$858.00
PAH (water)	8270	\$130 /sample			
PAH (soil)	8270	\$130 /sample			
Lead (water)	239.2	\$25 /sample			
Lead (soil)	239.2	\$25 /sample			
TPH	418.1	\$50 /sample			
PAH Water Supply	525.1	\$275 /sample			
VOC Water Supply	8260	\$65 /sample			
Dibromoethane 1,2, EDB	8011	\$65 /sample			
Dichloroethane 1,2 EDC	8260	\$65 /sample			
tert-Butyl alcohol	8015D	\$65 /sample			
Ethanol	8015D	\$65 /sample			
Oil & Grease		\$50 /sample			
Air Samples (System Influent)		\$100 /sample			
Dry Bulk Density		\$20 /sample			
Grain Size Analysis		\$40 /sample			
Specific Gravity		\$20 /sample			
Moisture Content		\$15 /sample			
Nitrate		\$20 /sample			
Sulfate		\$20 /sample			
Iron		\$20 /sample			
FOM (ASTM 2947)		\$40 /sample			
Total Organic Carbon (Walkley Black)		/sample			
Chloride		/sample			
Foaming Agents		/sample			
Total Dissolved Solids		/sample			
Other		/sample			
Other		/sample			
Other		/sample			
<b>Total Field Costs</b>					<b>\$8,364.00</b>

**Part II- Alabama Tank Trust Fund Itemization Form "C" Cost Proposal**

**Drilling**

Scenarios	Unit \$ Unit	Quantity	Requested\$
Mileage Rate (Current Federal Rate)			
Mileage (drilling device driven or ATV) ( <b>ONE WAY</b> mileage up to 450 miles) <sup>1</sup>	/mile		
Number of Mobilizations (includes \$300 mob/demob amount)			
Mileage (drilling device "hauled" to the site)( <b>ONE WAY</b> mileage up to 450 miles) <sup>1</sup> (direct push, skid steer, etc.)	/mile		
Number of Mobilizations (includes \$300 mob/demob amount)			

**Well Completions**

Well Pad Completions for Monitoring Wells (2" and 4")(up to 8" cover) <sup>2</sup>	\$205.00 /well		
Well Pad Completions for Monitoring Wells (2" and 4")(12" cover) <sup>2</sup>	\$242.00 /well		
Well Pad Completions for Recovery/Extraction Wells (2'x2') <sup>2</sup>		/well	
Well Pad Completions Recovery/Extraction Wells non hinged lid (2'x2') <sup>2</sup>		/well	
Alternate Screen for Recovery/Extraction Wells per/ft(Quotes Required) <sup>4</sup>		/foot	

**Unconsolidated Media Drilling**

1" / 2" Monitoring Well/Injection Well (HSA) <sup>3</sup>	\$65.00 /foot		
4" Monitoring Well (HSA) <sup>3</sup>	\$70.00 /foot		
Type III Well (HSA) <sup>5</sup>	\$145.00 /foot		
Soil Boring (HSA) per ft (includes tremie grout abandonment) <sup>6</sup>	\$30.00 /foot		
Temporary Well (HSA) per ft (includes tremie grout abandonment) <sup>6</sup>	\$36.00 /foot		
Sonic Drilling		/foot	

**Bedrock Drilling**

Air Rotary Rock Drilling per ft (2") <sup>3</sup>	\$71.00 /foot		
Air Rotary Rock Drilling per ft (4") <sup>3</sup>	\$77.00 /foot		
Type III Well <sup>5</sup>	\$145.00 /foot		
Air Compressor		/day	
Rock Coring	\$49.00 /foot		

**Direct Push Technology**

Direct Push per day (includes all personnel time) <sup>6</sup>	\$2,320 /day		
Direct Push well install materials per foot	\$10.00 /ft		

**Other Drilling Related Items**

MW/RW Pad Removal (if pad removed)	\$115.00 /pad		
2" MW/RW Abandonment by Overdrilling then tremie grouted <sup>3</sup>	\$35.00 /foot		
4" MW/RW Abandonment by Overdrilling then tremie grouted <sup>3</sup>	\$45.00 /foot		
MW/RW Tremie Grout Abandonment (remove well casing to approximately 3' and fill remainder) <sup>3</sup>	\$18.00 /foot		
Recovery Well Vault removal and backfill w/concrete (2'x2') <sup>7</sup>	\$550.00 /vault		
Recovery Well Vault backfill w/concrete only (2'x2')	\$250.00 /vault		
Drums	\$75.00 /drum		
Shelby Tubes	\$58.00 /tube		
Per Diem (overnight) (man days)(hotel receipts required)	\$85.00 /day		
Other (receipts required)			
Other (receipts required)			
Other (receipts required)			
Pass Through (if appropriate) Enter "5" or "10" as appropriate			

1 Mileage (enter ONE WAY miles) for any and all support vehicles, trailers, equipment, and personnel travel time

2 Includes labor, concrete, forms (if needed), bolt down covers, caps, vaults, and locks

3 Includes personnel, screen, risers, bentonite, sand, silt sleeves, decon, skid steer, saw cutting, coring, safety equipment, plastic sheeting, water, etc.

4 If an alternative type screen is warranted instead of typical pvc slotted screen (i.e. continuous screen, stainless steel, etc.)

5 Includes personnel, outer and inner casing of entire well, screen, grout, decon, skid steer, saw cutting, coring, safety equipment, plastic sheeting, water, etc.

6 Includes well pad removal and surface completion as per surrounding

7 If costs are to exceed this amount a detailed quote should be included and costs listed below or on "Form D"

8 The sum of the amounts for Drilling Activities will be a minimum of \$3,000

**Total Drilling Costs \$0.00**

**Part II- Alabama Tank Trust Fund Itemization Form "D" Cost Proposal**

**All Vendor quotes should be detailed, itemized and attached to Form "D"**

Use "Quote Details" tab for guidance

**Sub Contractors/ Vendors/ Utilities**

	Pass Through	Quoted Amount	Requested\$
8-hr MEME Event			
12-hr MEME Event			
24-hr MEME Event			
MEME Water Disposal Amount includes hauling			
ADEM Solid Waste Profile (ADEM review fee)			
ALDOT Permit Fee			
Carbon Disposal			
Carbon Recycling			
Corrective Action System Decommissioning			
Corrective Action System Install			
Corrective Action System Purchase			
Corrective Action System Rental			
Oxidizer Rental			
Excavation	10%	\$66,500.00	\$73,150.00
Injection Events			
NPDES Permit Application (permit fee)			
Phone Costs (telemetry)			
Power Costs			
Propane Costs			
Rentals			
Rentals			
Rentals			
Rentals			
Roll off Dumpster (includes hauling/handling)			
Sewer Disposal Costs			
Solid Waste Soil Disposal (to include hauling/handling)			
UIC Permit Application (permit fee)			
UIC Permit Greenfield Fee (permit fee)			
Water Supply for Liquid Ring Pump			
Water Treatment/Disposal			
Professional Survey (Licensed Surveyor)			
Other Miscellaneous items/rentals (receipts required)			
Other Miscellaneous items/rentals (receipts required)			
Other Miscellaneous items/rentals (receipts required)			
Other Miscellaneous items/rentals (receipts required)			

**Part II- Alabama Tank Trust Fund Itemization Form "D" Cost Proposal**

**All Vendor quotes should be detailed, itemized and attached to Form "D"**

Use "Quote Details" tab for guidance

**Sub Contractors/ Vendors/ Utilities**

		Pass Through	Quoted Amount	Requested\$
Other Miscellaneous items/rentals (receipts required)				
Other/Misc. (receipts required)	Provectus 3800 pounds shipped	10%	\$13,800.00	\$15,180.00
Other/Misc. (receipts required)	GPRS Utility Survey	10%	\$700.00	\$770.00
Other/Misc. (receipts required)				
Other/Misc. (receipts required)				
Other/Misc. (receipts required)				
Other/Misc. (receipts required)				
Other/Misc. (receipts required)				
Other/Misc. (receipts required)				
Other/Misc. (receipts required)				
Other/Misc. (receipts required)				
Other/Misc. (receipts required)				
Other/Misc. (receipts required)				
<b>Total Subs / Vendors / Utilities</b>				<b>\$89,100.00</b>

<b>Part II- Alabama Tank Trust Fund Itemization Form "E" Cost Proposal</b>							
Per diem allowed for Alabama Tank Trust Fund Contractor Personnel Only Maximum allowable rates are referenced on the "Maximum Rates" Tab in this document. This page should be submitted whenever per diem is being claimed.							
<b>Points of Travel</b>		<b>Projected Date</b>	<b>Personnel Classification</b>	<b>Hour of Departure</b>	<b>Hour of Return</b>	<b>Activity To Be Performed</b>	<b>Amount Per diem claimed</b>
From	To	mm/dd/yy		am/pm	am/pm		
Use this section to enter claims for daily per diems							
					Total number of daily per diems		0
Use this section to enter claims for extended daily per diems							
					Total number of ext. daily per diems		0
Use this section to enter claims for overnight per diems							
Bham	Mobile		Geologist			Soil Excavation	\$100.00
Mobile			Geologist			Soil Excavation	\$100.00
Mobile			Geologist			Soil Excavation	\$100.00
Mobile			Geologist			Soil Excavation	\$100.00
Mobile	Bham		Geologist			Soil Excavation	\$100.00
					Total number of overnight per diems		5



Part II- Alabama Tank Trust Fund Itemization Form "E" Cost Proposal Additional Sheet							
Per diem allowed for Alabama Tank Trust Fund Contractor Personnel Only Maximum allowable rates are referenced on the "Maximum Rates" Tab in this document.							
Points of Travel		Projected Date mm/dd/yy	Personnel Classification	Hour of Departure am/pm	Hour of Return am/pm	City of Overnight Stay	Amount Per diem claimed
From	To						
Use this section to enter claims for daily per diems							
				Total number of daily per diems		0	
Use this section to enter claims for extended daily per diems							
				Total number of ext. daily per diems		0	
Use this section to enter claims for overnight per diems							
				Total number of overnight per diems		0	

**Part II- Alabama Tank Trust Fund Itemization Form "F" Cost Proposal**

Use this form to list hours where a Unit Rate is not available, NOT FOR ADDING HOURS TO UNITS  
Detailed description of activities must be entered where hours are claimed

**Other Plan /Report NOT Listed**

Description of Activities

Project Manager:		\$115.00	<input type="text"/>
PE/PG:		\$132.00	<input type="text"/>
Staff Geologist/ Engineer:		\$96.00	<input type="text"/>
Staff Scientist:		\$90.00	<input type="text"/>
Draftsman:		\$70.00	<input type="text"/>
Clerical:		\$57.00	<input type="text"/>

Other Plan Report

**Other Field Tasks NOT Listed**

Description of Activities

Project Manager:		\$115.00	<input type="text"/>	
PE/PG:	Project Management	\$132.00	<input type="text" value="8"/>	\$1,056.00
Staff Geologist/ Engineer:	Soil Excavation Oversight, Separate trip for repaving	\$96.00	<input type="text" value="48"/>	\$4,608.00
Staff Scientist:		\$90.00	<input type="text"/>	
Technician:		\$70.00	<input type="text"/>	

Other Field Task

\$5,664.00

### Part II- Alabama Tank Trust Fund Itemization Form "F" Cost Proposal

Use this form to list hours where a Unit Rate is not available, NOT FOR ADDING HOURS TO UNITS  
Detailed description of activities must be entered where hours are claimed

#### CAP Modification

##### Description of Activities

<b>Project Manager:</b>		\$115.00	<input type="text"/>
<b>PE/PG:</b>		\$132.00	<input type="text"/>
<b>Staff Geologist/ Engineer:</b>		\$96.00	<input type="text"/>
<b>Staff Scientist:</b>		\$90.00	<input type="text"/>
<b>Draftsman:</b>		\$70.00	<input type="text"/>
<b>Clerical:</b>		\$57.00	<input type="text"/>

CAP Modification

**Alabama Tank Trust Fund  
Cost Proposal  
Part I**

**I.1 Cost Proposal Information:**

Cost Proposal Number:	Date of Cost Proposal (mm/dd/yy):
80	4/5/2023
UST or AST Incident Number:	Facility I.D. Number:
UST97-10-09	13901-097-014477

**I.2 Facility Information**

Facility Name:	Former Phillips 66 - Delaney Property
Facility Address:	3659 Airport Highway Mobile, Mobile County, Alabama

**I.3 Owner Information:**

Owner Name:	Commerce Group, Inc.
Owner Address:	1280 West Newport Center Drive Deerfield Beach, Florida 33442

**I.4 Response Action Contractor Information:**

Approved Response Action Contractor Name:	Bhate Environmental Associates, Inc. 1608 13th Avenue South, Suite 300 Birmingham, Alabama 35205
Approved Response Action Contractor Address:	
Project Contact:	Emmett Beers
Project Contact Phone #:	205-918-4000
Project Contact E-mail:	<a href="mailto:ebeers@bhate.com">ebeers@bhate.com</a>
Employer Tax Number (IRS):	63-1035702

Cost Proposal Number:

80

Facility Name:

Former Phillips 66 - Delaney Property

**I.5 Activity Information:**

Indicate below the activities for which the cost proposal is submitted:	
<input type="checkbox"/>	Site Stabilization/Initial Abatement
<input type="checkbox"/>	Preliminary Investigation
<input checked="" type="checkbox"/>	Secondary Investigation / Additional Well Installation
<input type="checkbox"/>	Alabama Risk Based Corrective Action (ARBCA)
<input type="checkbox"/>	Groundwater Sampling
<input type="checkbox"/>	Free Product Removal/Mobile Enhanced Multiphase Extraction (MEME)
<input type="checkbox"/>	Corrective Action Plan Evaluation
<input type="checkbox"/>	Develop Corrective Action Plan
<input type="checkbox"/>	Corrective Action
<input type="checkbox"/>	Stockpile Sampling / Management / Disposal
<input type="checkbox"/>	Provision of Alternate Water Supply
<input type="checkbox"/>	Pilot Test
<input type="checkbox"/>	Monitoring/Recovery/Injection Well Abandonment
<input type="checkbox"/>	System Decommissioning/Removal
<b>Activities/Other/Brief Summary of Activities:</b>	
Well Installation	
Provide proposed completion date for this phase of work activities:	
11/1/2023	
Provide projected date of cleanup completed:	
1/1/2025	

**I.6 Subcontractor Information:**

Indicate Subcontractors to be used during this phase of work:	
Name & Address	Service Provided
Singley Environmental	Well Installation
Erwin Remediation	Soil Drum Disposal

Cost Proposal Number:

80

Facility Name:

Former Phillips 66 - Delaney Property

Signatures must be provided in Sections I.7 and I.8 below for this proposal to be processed.

**I.7 Certification of Unintentional release of Motor Fuel & Cost Proposal- Owner Signature:**

I certify that an unintentional release has occurred from a motor fuel underground or aboveground tank system at this site and I authorize this Cost Proposal amount for corrective action activities to be conducted at this site.

1. Owner or Operator Signature:



Typed or Printed Name and Title:

Mr. William Ring - Vice President

Email address:

[wring@commerce-group.com](mailto:wring@commerce-group.com)

Date:

4/23/2023

**I.8 Cost Proposal- Contractor Signature:**

2. Response Action Contractor Signature:



Typed or Printed Name and Title:

Mr. Emmett Beers, Senior PM

Date:

4/23/2023

**I.9 Trust Fund Obligation Information:**

Estimated Total Cost of all Anticipated Response Actions (To be updated overtime):	\$800,000.00
Total of Previously Approved Cost Proposals:	\$724,793.00
Total Proposed Costs to Date (Approved Costs Plus Costs Proposed in this Cost Proposal):	\$731,352.00
Estimate Percent Completion of entire project to date:	91%

**I.10 Cost Proposal Amount**

Proposed Costs under this Cost Proposal:	\$6,559.00	Personnel	\$2,413.00
		Field Equipment	\$0.00
Owners Required Contribution for UST Release(\$5,000): <i>Applicable for CP#1 Only</i>		Mileage	\$262.00
		Per Diem	\$34.00
		Drilling	\$3,300.00
		Analytical	\$0.00
Owners Required Contribution for AST Release(\$10,000): <i>Applicable for CP#1 Only</i>		Other	\$550.00
<b>Total of This Cost Proposal:</b>	<b>\$6,559.00</b>		

**Part II- Alabama Tank Trust Fund Itemization Form "A" Cost Proposal**

Complete forms "A" through "G" as applicable to site activities and for supporting attachments to Part I.

**Summary of ATTF Report and Plan Preparation Scenarios**

<u>Scenarios</u>	<u>Unit \$</u>	<u>Units</u>	<u>Quantity</u>	<u>Requested\$</u>
Initial Abatement Report (other than just MEME)				
1-2 days in field	\$2,197 /job			
Adder amount for every field day over 2 days(not to exceed 14 days)	\$373 /day			
Initial Abatement Free Product Recovery Report	\$527 /job			
Preliminary Investigation Report	\$5,408 /site			
Secondary Plan (on and offsite)(once per site)	\$930 /site			
Secondary Report (up to 12 wells)	\$6,229 /site			
Adder per Wells installed over 8	\$166 /well			
Off-site access-Residential	\$201 /property			
Off-site access - Commercial	\$288 /property			
Off-site access - ALDOT	\$1,638 /property			
Additional Well Installation Plan (investigation 1-4 wells)	\$527 /plan			
Additional Well Installation Plan (investigation >4 wells)	\$904 /plan			
Additional Well Installation Report (1-4 wells)(as an adder)	\$1,287 /report		1	\$1,287.00
Additional Well Installation Report (>4wells)(as an adder)	\$1,568 /report			
High Resolution Characterization Plan/Report (stand alone)	\$2,149 /pln/rprt			
Groundwater Monitoring Plan (GWM)	\$553 /site			
NAMR/GWM-Report				
1-12 wells, BTEX/MTBE/Naphthalene	\$1,306 /report			
1-12 wells, BTEX/MTBE+PAH	\$1,568 /report			
NAMR/GWM adder >12 wells, BTEX/MTBE/Naphthalene	\$41.50 /well			
NAMR/GWM adder >12 wells, BTEX/MTBE + PAH	\$58.10 /well			
FPR Plan -All free product recovery	\$872 /plan			
FPR Report -all free product reports (except MEME)	\$1,082 /report			
FPR Report-MEME	\$1,178 /report			
MEME/Injection Events (adder to report)	\$834 /report			
Adder amount for >3 MEME/Injection Events (per approved period)	\$326 /report			
ARBCA Report Tier I/RM 1				
1-12 wells, BTEX/MTBE/Naphthalene	\$4,389 /evaluation			
1-12 wells, BTEX/MTBE+PAH	\$4,651 /evaluation			
ARBCA Report Tier II/RM 2				
1-12 wells, BTEX/MTBE/Naphthalene	\$4,389 /evaluation			
1-12 wells, BTEX/MTBE+PAH	\$4,651 /evaluation			
ARBCA GRP Re Assessment(1-4 wells Gas)	\$566 /assessment			
ARBCA GRP Re Assessment(1-4 wells Diesel)	\$890 /assessment			
ARBCA adder for Gas > number of allocated wells	\$41.50 /well			
ARBCA adder for Diesel > number of allocated wells	\$49.80 /well			
ARBCA adder for Tier II WITH DECAY	\$2,514 /evaluation			
ARBCA Evaluation with Decay (stand alone evaluation)	\$3,803 /evaluation			
CAP Development - CA Evaluation (once per site)	\$3,761 /site			
CAP Development - RNA	\$1,745 /cap			
CAP Development - RNA with MEME	\$1,860 /cap			
CAP Development - Excavation	\$1,821 /cap			
CAP Development - Liquid Injections	\$5,132 /cap			
CAP Development (Class 1)- DPVE, P&T with SVE	\$7,684 /cap			

Complete forms "A" through "G" as applicable to site activities and for supporting attachments to Part I.

### Summary of ATTF Report and Plan Preparation Scenarios

Scenarios	Unit \$	Units	Quantity Requested\$
CAP Development (Class 2) - Ozone/SVE, AS/SVE, Liquid Chemox/Biox	\$6,780	/cap	
CAP Development (Class 3) - Ozone, AS, SVE	\$6,252	/cap	
CAP Modification (use Form "F" for input)		/cap	
CAP Implementation Report - Excavation	\$2,278	/report	
CAP Implementation Report -Liquid Injections	\$2,901	/report	
CA System Installation Report (all Classes same)	\$8,344	/report	
SEMR - DPVE, P&T Reports			
1-12 wells, BTEX/MTBE/Naphthalene	\$5,444	/report	
1-12 wells, BTEX/MTBE+PAH	\$5,706	/report	
SEMR - Ozone, AS, SVE, Chemox, Biosparge - Reports			
1-12 wells, BTEX/MTBE/Naphthalene	\$4,830	/report	
1-12 wells, BTEX/MTBE+PAH	\$5,092	/report	
SEMR adder >12 wells, BTEX/MTBE/Naph	\$41.50	/well	
SEMR adder >12 wells, BTEX/MTBE+PAH	\$49.80	/well	
IDW/Treatment Disposal Report (stand alone)	\$1,012	/report	
DPVE Pilot Test Plan (not for Slug Test)	\$1,179	/plan	
DPVE Pilot Test Report	\$1,853	/report	
AS/SVE or Ozone Pilot Test Plan	\$1,179	/plan	
AS/SVE or Ozone Pilot Test Report	\$1,853	/report	
ISCO or Bioremediation Pilot Test Plan	\$1,179	/plan	
ISCO or Bioremediation Pilot Test Report	\$2,045	/report	
Specific Capacity Test Plan	\$400	/plan	
Specific Capacity Test Report	\$1,536	/report	
System Purchase Letter	\$1,452	/ltr	
Monitoring Well Abandonment Plan	\$487	/plan	
Monitoring Well Abandonment Report	\$1,082	/report	
System Decommissioning Plan	\$968	/plan	
System Decommissioning Report	\$1,926	/report	
Alternate Water Supply Plan	\$757	/plan	
Alternate Water Supply Report	\$1,178	/report	
Public Water Line Replacement Plan	\$1,102	/plan	
Public Water Line Replacement Report	\$1,638	/report	
Adjacent Property Owner Information (additional effort)	\$328.50	/document	
UIC Permit Application Preparation	\$1,331	/permit	
UIC General Permit Application Preparation	\$853	/permit	
UIC General Permit Application Renewal	\$470	/renewal	
General NPDES Application Preparation	\$853	/permit	
General NPDES Application Renewal	\$470	/renewal	
ADEM Solid Waste Profile Preparation	\$239.50	/profile	
Municipal Sewer Application Process (ADEM or Others)	\$517	/profile	
Environmental Covenant Preparation	\$611	/covenant	
Cost Proposal Tier I Addendum Preparation	\$115	/addendum	
Cost Proposal Tier II Addendum Preparation	\$362	/addendum	
ADEM Approved Amount			
Other Plan/Report (use Form "F" for input)			
<b>Total Report and Plan Costs</b>			<b>\$1,287.00</b>



<b>Part II- Alabama Tank Trust Fund Itemization Form "B" Cost Proposal</b>			
<b>Summary of ATTF Field Scenarios</b>			
<b>Scenarios</b>	<b>Unit \$ Unit</b>	<b>Quantity</b>	<b>Requested\$</b>
<b>Well Installation Oversight time</b>			
Type II Porous Media Drilling			
Porous material 0-10 feet	\$227.00 /well		
Porous material 0-30 feet	\$358 /well	1	\$358.00
Porous material 0-50 feet	\$777.00 /well		
Porous material 0-70 feet	\$1,004 /well		
Porous material 0-90 feet	\$1,231.00 /well		
Porous material 0-110 feet	\$1,458 /well		
Type II Bedrock Drilling			
Bedrock 0-20' Air Rotary Drilling	\$358 /well		
Bedrock 0-40' Air Rotary Drilling	\$489.00 /well		
Bedrock 0-60' Air Rotary Drilling	\$716 /well		
Bedrock 0-80' Air Rotary Drilling	\$943.00 /well		
Bedrock 0-20' Core Drilling	\$454 /well		
Bedrock 0-40' Core Drilling	\$777.00 /well		
Bedrock 0-60' Core Drilling	\$908 /well		
Bedrock 0-80' Core Drilling	\$1,135.00 /well		
Type III Well Porous (Depth of entire well)			
Type III Well 0-20' (entire well in porous material)	\$406.00 /well		
Type III Well 0-40' (entire well in porous material)	\$633 /well		
Type III Well 0-60' (entire well in porous material)	\$860 /well		
Type III Well 0-80' (entire well in porous material)	\$1,087 /well		
Type III Well 0-100' (entire well in porous material)	\$1,314.00 /well		
Type III Well Bedrock (Depth of entire well)			
Type III Well 0-20' (bedrock encountered)	\$454 /well		
Type III Well 0-40' (bedrock encountered)	\$681.00 /well		
Type III Well 0-60' (bedrock encountered)	\$908 /well		
Type III Well 0-80' (bedrock encountered)	\$1,135.00 /well		
Type III Well 0-100' (bedrock encountered)	\$1,362 /well		
Soil Boring (no well set)/Direct Push oversight			
Soil Boring porous material 0-10 feet	\$144.00 /well		
Soil Boring porous material 0-30 feet	\$240.00 /well		
Soil Boring porous material 0-50 feet	\$336.00 /well		
Soil Boring porous material 0-70 feet	\$528.00 /well		
Direct Push (Geologist Daily Charge or 8 probe points)	\$960.00 /day		
High Resolution Imaging Field Time and Oversight	\$1,356.00 /day		
<b>Other Field Activities</b>			
Well Re-Development (initial development included in drilling oversight costs)	\$105.00 /well		
Slug Tests	\$332.00 /well		
Private/Public Water Well Inventory (up to 5 wells)	\$384.00 /5wells		
Site Survey during Investigation (not a Licensed Surveyor)	\$280.00 /sow		
RW Vault Abandonment Oversight	\$96.00 /vault		
MW/RW/IW Abandonment Oversight for Overdrilling	\$288.00 /well		
MW/RW/IW Abandonment Oversight for Grouting in Casing	\$144.00 /well		
Monitoring Well Pad/Cover Repair/ Replacement	\$140.00 /well		
Groundwater Sampling Set-up (2hrs tech time)	\$140.00 /sow		
Purge/Development Water Handling (see Basis)	\$105.00 /sow		
Gauging Well (no sampling)	\$17.50 /well		
Groundwater Sampling and Gauging 2" Well	\$70.00 /well		
Groundwater Sampling and Gauging 4" Well	\$80.50 /well		

## Part II- Alabama Tank Trust Fund Itemization Form "B" Cost Proposal

### Summary of ATTF Field Scenarios

Scenarios	Unit \$ Unit	Quantity	Requested\$
Groundwater Sampling and Gauging 6" Well	\$87.50 /well		
Sample Public Well	\$140 /well		
Sample Private Well	\$105.00 /well		
Sample Stream (up to 3 samples)	\$105.00 /stream		
Soil Sampling Setup (1-4 wells)	\$192 /sow		
Soil Sampling Setup adder (each additional group of 4 wells)	\$96 /sow		
MEME Event/Pilot Test/Injection Event (hourly rate)	\$70 /hr		
DPVE Pilot Test/Aquifer Test (hourly rate)	\$166 /hr		
SVE/ AS/ Ozone Pilot Test	\$864 /test		
Site Visit by PE/PG (CAP Development,etc)	\$1,056 /site		
System Installation Oversight (up to 7 days in field)	\$9,616 /system		
System Installation Oversight Adder (per day over 7 doc req.)	\$1,075 /day		
System Startup	\$1,840 /system		
System Decommissioning	\$1,141 /day		
DPVE, Pump and Treat O&M 3 months	\$4,280 /quarter		
DPVE, Pump and Treat O&M 4 months	\$5,400 /triannual		
Ozone, biosparge, SVE, biovent and Air Sparge O&M 3 months	\$2,140 /quarter		
Ozone, biosparge, SVE, biovent and Air Sparge O&M 4 months	\$2,700 /triannual		
ADEM Approved Amount			
Other Field Work not listed (use Form "F" for input)			
Emergency Response (Contact ADEM for approval)			
Travel			
<b>Mileage Rate</b>		\$0.655	
Mileage (One way office to site)		200	
Number of round trips to site		1	\$262.00
Other Mileage (enter total mileage not including office to site)			
<b>Personnel Travel Time (entered in Hours)</b>			
Technician(s)-travel time	\$70 /hr		
Geologist/Engineer-travel time	\$96 /hr	8	\$768.00
PG/PE-travel time	\$132 /hr		
Project Manager-travel time	\$115 /hr		
<b>Per Diem</b>			
Per diem (6-12hrs)	\$12.75 /day		
Per diem (greater than 12hrs)	\$34 /ext. day	1	\$34.00
Per diem 2 days (overnight)(invoice(s) required)	\$85 /day		
Per diem >2 consecutive days (overnight)(invoice(s) required)	\$100 /day		
Equipment and Equipment Kits			
55-Gallon Drums	\$75 /drum		
Sampling Expendables(gloves, ice, string, jars, foil, distilled water, paper towels, etc.)	\$55 /sow		
Expendables O&M	\$28 /day		
Monitoring Well Development	\$83 /day		
Monitoring Well/Boring Installation	\$66 /day		
Monitoring Well/Boring Abandonment	\$66 /day		
Encore Samplers	\$10 /sample		
Groundwater Monitoring	\$176 /day		
Bailers	\$8 /bailer		
MEME Event	\$77 /event		
Free Product Bailing	\$66 /sow		
DPVE, SVE, AS, P&T O&M	\$160 /day		
Ozone Sparge O&M	\$83 /day		
DPVE Pilot Test	\$77 /sow		
Pumping Test	\$182 /sow		
Specific Capacity	\$72 /sow		
Slug Test	\$121 /sow		
Initial Abatement	\$55 /day		

**Part II- Alabama Tank Trust Fund Itemization Form "B" Cost Proposal**

**Summary of ATTF Field Scenarios**

<u>Scenarios</u>	<u>Unit \$</u>	<u>Unit</u>	<u>Quantity</u>	<u>Requested\$</u>
Postage / Shipping and Copying (plans reports, ADEM and owner)	\$85	/sow	[ ]	[ ]
Postage / Shipping (Sample Shipping)	\$50	/samples	[ ]	[ ]
Postage / Shipping (documentation required)	[ ]	[ ]	[ ]	[ ]

**Analytical Samples**

	<u>Method</u>	<u>Unit \$</u>	<u>Unit</u>	<u>Pass Through</u>	<u>Sample #</u>
BTEX/MTBE/Naph (water)	8021	\$65	/sample	[ ]	[ ]
BTEX/MTBE/Naph (soil)	8021	\$65	/sample	[ ]	[ ]
PAH (water)	8270	\$130	/sample	[ ]	[ ]
PAH (soil)	8270	\$130	/sample	[ ]	[ ]
Lead (water)	239.2	\$25	/sample	[ ]	[ ]
Lead (soil)	239.2	\$25	/sample	[ ]	[ ]
TPH	418.1	\$50	/sample	[ ]	[ ]
PAH Water Supply	525.1	\$275	/sample	[ ]	[ ]
VOC Water Supply	8260	\$65	/sample	[ ]	[ ]
Dibromoethane 1,2, EDB	8011	\$65	/sample	[ ]	[ ]
Dichloroethane 1,2 EDC	8260	\$65	/sample	[ ]	[ ]
tert-Butyl alcohol	8015D	\$65	/sample	[ ]	[ ]
Ethanol	8015D	\$65	/sample	[ ]	[ ]
Oil & Grease		\$50	/sample	[ ]	[ ]
Air Samples (System Influent)		\$100	/sample	[ ]	[ ]
Dry Bulk Density		\$20	/sample	[ ]	[ ]
Grain Size Analysis		\$40	/sample	[ ]	[ ]
Specific Gravity		\$20	/sample	[ ]	[ ]
Moisture Content		\$15	/sample	[ ]	[ ]
Nitrate		\$20	/sample	[ ]	[ ]
Sulfate		\$20	/sample	[ ]	[ ]
Iron		\$20	/sample	[ ]	[ ]
FOM (ASTM 2947)		\$40	/sample	[ ]	[ ]
Total Organic Carbon (Walkley Black)		[ ]	/sample	[ ]	[ ]
Chloride		[ ]	/sample	[ ]	[ ]
Foaming Agents		[ ]	/sample	[ ]	[ ]
Total Dissolved Solids		[ ]	/sample	[ ]	[ ]
Other	[ ]	[ ]	/sample	[ ]	[ ]
Other	[ ]	[ ]	/sample	[ ]	[ ]
Other	[ ]	[ ]	/sample	[ ]	[ ]

**Total Field Costs** **\$1,422.00**

**Part II- Alabama Tank Trust Fund Itemization Form "C" Cost Proposal**

**Drilling**

Scenarios	Unit \$ Unit	Quantity	Requested\$
Mileage Rate (Current Federal Rate)		\$0.655	
Mileage (drilling device driven or ATV) ( <b>ONE WAY</b> mileage up to 450 miles) <sup>1</sup>	\$3.93 /mile		
Number of Mobilizations (includes \$300 mob/demob amount)		1	\$300.00
Mileage (drilling device "hauled" to the site)( <b>ONE WAY</b> mileage up to 450 miles) <sup>1</sup> (direct push, skid steer, etc.)	\$1.97 /mile		
Number of Mobilizations (includes \$300 mob/demob amount)			

**Well Completions**

Well Pad Completions for Monitoring Wells (2" and 4")(up to 8" cover) <sup>2</sup>	\$205.00 /well		
Well Pad Completions for Monitoring Wells (2" and 4")(12" cover) <sup>2</sup>	\$242.00 /well		
Well Pad Completions for Recovery/Extraction Wells (2'x2') <sup>2</sup>		/well	
Well Pad Completions Recovery/Extraction Wells non hinged lid (2'x2') <sup>2</sup>		/well	
Alternate Screen for Recovery/Extraction Wells per/ft(Quotes Required) <sup>4</sup>		/foot	

**Unconsolidated Media Drilling**

1" / 2" Monitoring Well/Injection Well (HSA) <sup>3</sup>	\$65.00 /foot	15	\$975.00
4" Monitoring Well (HSA) <sup>3</sup>	\$70.00 /foot		
Type III Well (HSA) <sup>5</sup>	\$145.00 /foot		
Soil Boring (HSA) per ft (includes tremie grout abandonment) <sup>6</sup>	\$30.00 /foot		
Temporary Well (HSA) per ft (includes tremie grout abandonment) <sup>6</sup>	\$36.00 /foot		
Sonic Drilling		/foot	

**Bedrock Drilling**

Air Rotary Rock Drilling per ft (2") <sup>3</sup>	\$71.00 /foot		
Air Rotary Rock Drilling per ft (4") <sup>3</sup>	\$77.00 /foot		
Type III Well <sup>5</sup>	\$145.00 /foot		
Air Compressor		/day	
Rock Coring	\$49.00 /foot		

**Direct Push Technology**

Direct Push per day (includes all personnel time) <sup>6</sup>	\$2,320 /day		
Direct Push well install materials per foot	\$10.00 /ft		

**Other Drilling Related Items**

MW/RW Pad Removal (if pad removed)	\$115.00 /pad		
2" MW/RW Abandonment by Overdrilling then tremie grouted <sup>3</sup>	\$35.00 /foot		
4" MW/RW Abandonment by Overdrilling then tremie grouted <sup>3</sup>	\$45.00 /foot		
MW/RW Tremie Grout Abandonment (remove well casing to approximately 3' and fill remainder) <sup>3</sup>	\$18.00 /foot		
Recovery Well Vault removal and backfill w/concrete (2'x2') <sup>7</sup>	\$550.00 /vault		
Recovery Well Vault backfill w/concrete only (2'x2')	\$250.00 /vault		
Drums	\$75.00 /drum		
Shelby Tubes	\$58.00 /tube		
Per Diem (overnight) (man days)(hotel receipts required)	\$85.00 /day		
Other (receipts required)			
Other (receipts required)			
Other (receipts required)			
Pass Through (if appropriate) Enter "5" or "10" as appropriate			

1 Mileage (enter ONE WAY miles) for any and all support vehicles, trailers, equipment, and personnel travel time

2 Includes labor, concrete, forms (if needed), bolt down covers, caps, vaults, and locks

3 Includes personnel, screen, risers, bentonite, sand, silt sleeves, decon, skid steer, saw cutting, coring, safety equipment, plastic sheeting, water, etc.

4 If an alternative type screen is warranted instead of typical pvc slotted screen (i.e. continuous screen, stainless steel, etc.)

5 Includes personnel, outer and inner casing of entire well, screen, grout, decon, skid steer, saw cutting, coring, safety equipment, plastic sheeting, water, etc.

6 Includes well pad removal and surface completion as per surrounding

7 If costs are to exceed this amount a detailed quote should be included and costs listed below or on "Form D"

8 The sum of the amounts for Drilling Activities will be a minimum of \$3,000

**Total Drilling Costs \$3,300.00**

**Part II- Alabama Tank Trust Fund Itemization Form "D" Cost Proposal**

**All Vendor quotes should be detailed, itemized and attached to Form "D"**

Use "Quote Details" tab for guidance

**Sub Contractors/ Vendors/ Utilities**

	Pass Through	Quoted Amount	Requested\$
8-hr MEME Event			
12-hr MEME Event			
24-hr MEME Event			
MEME Water Disposal Amount includes hauling			
ADEM Solid Waste Profile (ADEM review fee)			
ALDOT Permit Fee			
Carbon Disposal			
Carbon Recycling			
Corrective Action System Decommissioning			
Corrective Action System Install			
Corrective Action System Purchase			
Corrective Action System Rental			
Oxidizer Rental			
Excavation			
Injection Events			
NPDES Permit Application (permit fee)			
Phone Costs (telemetry)			
Power Costs			
Propane Costs			
Rentals			
Rentals			
Rentals			
Rentals			
Roll off Dumpster (includes hauling/handling)			
Sewer Disposal Costs			
Solid Waste Soil Disposal (to include hauling/handling)	10%	\$500.00	\$550.00
UIC Permit Application (permit fee)			
UIC Permit Greenfield Fee (permit fee)			
Water Supply for Liquid Ring Pump			
Water Treatment/Disposal			
Professional Survey (Licensed Surveyor)			
Other Miscellaneous items/rentals (receipts required)			
Other Miscellaneous items/rentals (receipts required)			
Other Miscellaneous items/rentals (receipts required)			
Other Miscellaneous items/rentals (receipts required)			

**Part II- Alabama Tank Trust Fund Itemization Form "D" Cost Proposal**

**All Vendor quotes should be detailed, itemized and attached to Form "D"**

Use "Quote Details" tab for guidance

**Sub Contractors/ Vendors/ Utilities**

	Pass Through	Quoted Amount	Requested\$
Other Miscellaneous items/rentals (receipts required)			
Other/Misc. (receipts required)			
Other/Misc. (receipts required)			
Other/Misc. (receipts required)			
Other/Misc. (receipts required)			
Other/Misc. (receipts required)			
Other/Misc. (receipts required)			
Other/Misc. (receipts required)			
Other/Misc. (receipts required)			
Other/Misc. (receipts required)			
Other/Misc. (receipts required)			
Other/Misc. (receipts required)			
Other/Misc. (receipts required)			
<b>Total Subs / Vendors / Utilities</b>			<b>\$550.00</b>

<b>Part II- Alabama Tank Trust Fund Itemization Form "E" Cost Proposal</b>							
Per diem allowed for Alabama Tank Trust Fund Contractor Personnel Only Maximum allowable rates are referenced on the "Maximum Rates" Tab in this document. This page should be submitted whenever per diem is being claimed.							
<b>Points of Travel</b> From                      To		<b>Projected Date</b> mm/dd/yy	<b>Personnel Classification</b>	<b>Hour of Departure</b> am/pm	<b>Hour of Return</b> am/pm	<b>Activity To Be Performed</b>	<b>Amount Per diem claimed</b>
Use this section to enter claims for daily per diems							
					Total number of daily per diems	0	
Use this section to enter claims for extended daily per diems							
Bham	Mobile		Geologist			Well Installation	\$34.00
					Total number of ext. daily per diems	1	
Use this section to enter claims for overnight per diems							
					Total number of overnight per diems	0	

Part II- Alabama Tank Trust Fund Itemization Form "E" Cost Proposal Additional Sheet							
Per diem allowed for Alabama Tank Trust Fund Contractor Personnel Only Maximum allowable rates are referenced on the "Maximum Rates" Tab in this document.							
Points of Travel From	To	Projected Date mm/dd/yy	Personnel Classification	Hour of Departure am/pm	Hour of Return am/pm	City of Overnight Stay	Amount Per diem claimed
Use this section to enter claims for daily per diems							
						Total number of daily per diems	0
Use this section to enter claims for extended daily per diems							
						Total number of ext. daily per diems	0
Use this section to enter claims for overnight per diems							
						Total number of overnight per diems	0