

**MODIFIED CORRECTIVE ACTION PLAN
CALHOUN COUNTY BUS SHOP
310 WHITES GAP ROAD SE
JACKSONVILLE, CALHOUN COUNTY, ALABAMA**

**FACILITY I.D. NO. 10812-015-002129
UST INCIDENT NO.: UST95-08-15**

February 2024

Prepared For:

**Calhoun County Board of Education
4400 McClelland Boulevard
Anniston, Alabama 36206**

Bhate Project No.: ADEM000.0798

Prepared By:



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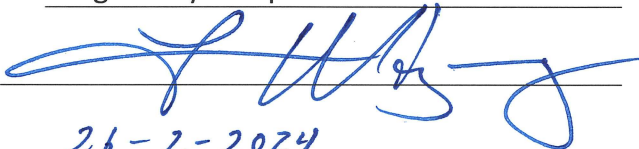
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CERTIFICATION

I certify under penalty of law that this Modified Corrective Action Plan and all plans, specifications, 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. I certify that I am a qualified groundwater scientist who has received a baccalaureate or postgraduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enables me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. 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.

Engineer Name: Louis M. Montgomery, P.E.
Regulatory Compliance Director
Signature: 
Date Signed: 26-2-2024
Registration Number: #20195
State: Alabama Expiration Date: 31-12-2024



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1 UST RELEASE FACT SHEET & CLASSIFICATION FORM

UST RELEASE FACT SHEET

GENERAL INFORMATION:

SITE NAME: Calhoun County Bus Shop

ADDRESS: 310 Whites Gap Road SE, Jacksonville, Calhoun County, Alabama

FACILITY I.D. NO.: 1 0 8 1 2 - 0 1 5 - 0 0 2 1 2 9

UST INCIDENT NO.: U S I 9 5 - 0 8 - 1 5

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?

One

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?

☐ Yes ☒ No

Have vapors or contaminated groundwater posed a threat to the public?

☐ Yes ☒ No

Are any underground utilities impacted or imminently threatened by the release?

☐ Yes ☒ No

Have surface waters been impacted by the release?

☐ Yes ☒ No

Is there an imminent threat of contamination to surface waters?

☐ Yes ☒ No

What is the type of surrounding population?

Commercial and Residential

CONTAMINATION DESCRIPTION:

Type of contamination at site: ☒ Gasoline, ☐ Diesel, ☐ Waste Oil

☐ Kerosene, ☐ Other _____

Free product present in wells? ☐ Yes ☒ No

Maximum thickness measured: 0.19 inches in MW-21 on 11/2/07, None currently.

Maximum BTEX concentration measured in soil: 334 mg/kg - OIP-08 (August 2020)

Maximum BTEX or PAH concentrations measured in groundwater: Total BTEX - 83.7 mg/L – MW-05 (April 1998)

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UST SITE CLASSIFICATION SYSTEM CHECKLIST

Please read all of the following statements and mark either yes or no if the statement applies to your site. If you have conducted a Preliminary or Secondary Investigation, all questions should be answered. Closure site assessment reports may not provide you with all the necessary information, but answer the statements with the knowledge obtained during the closure site assessment.

SITE NAME: Calhoun County Bus Shop Center

SITE ADDRESS: 310 Whites Gap Road SE
Jacksonville, Calhoun County, Alabama

FACILITY I.D. NO.: 10812-015-002129

UST INCIDENT NO.: UST95-08-15

OWNER NAME: Calhoun Couty Board of Education

OWNER ADDRESS: 4400 McClelland Boulevard, Anniston, Alabama 36206

NAME & ADDRESS OF PERSON
COMPLETING THIS FORM: Emmett A. Beers
Bhate Environmental Associates, Inc.
1608 13th Ave. South, Suite 300
Birmingham, Alabama 35205

CLASSIFICATION	DESCRIPTION	YES	NO
CLASS A	IMMEDIATE THREAT TO HUMAN HEALTH, HUMAN SAFETY OR SENSITIVE ENVIRONMENTAL RECEPTOR		
A.1	Vapor concentrations at or approaching explosive levels that could cause health effects, are present in a residence or building.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A.2	Vapor concentrations at or approaching explosive levels present in subsurface utility system(s), but no buildings or residences are impacted.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CLASS B	IMMEDIATE THREAT TO HUMAN HEALTH, HUMAN SAFETY OR SENSITIVE ENVIRONMENTAL RECEPTOR		
B.1	An active public water supply well, public water supply line, or public surface water intake is impacted or immediately threatened.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B.2	An active domestic water supply well, domestic water supply line or domestic surface water intake is impacted or immediately threatened.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B.3	The release is located within a designated Wellhead Protection Area I.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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CLASSIFICATION	DESCRIPTION	YES	NO
CLASS C	IMMEDIATE THREAT TO HUMAN HEALTH, HUMAN SAFETY OR SENSITIVE ENVIRONMENTAL RECEPTOR		
C.1	Ambient vapor/particulate concentrations exceed concentrations of concern from an acute exposure, or safety viewpoint.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
C.2	Free product is present on the groundwater, at ground surface, on surface water bodies, in utilities other than water supply lines, or in surface water runoff.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CLASS D	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
D.1	There is a potential for explosive levels, or concentrations of vapors that could cause acute effects, to accumulate in a residence or other building.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D.2	A non-potable water supply well is impacted or immediately threatened.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D.3	Shallow contaminated surface soils are open to public access, and dwellings, parks, playgrounds, day care centers, schools or similar use facilities are within 500 feet of those soils.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CLASS E	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
E.1	A sensitive habitat or sensitive resources (sport fish, economically important species, threatened and endangered species, etc.) are impacted and affected.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CLASS F	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
F.1	Groundwater is impacted and a public well is located within 1 mile of the site.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
F.2	Groundwater is impacted and a domestic well is located within 1,000 feet of the site.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
F.3	Contaminated soils and/or groundwater are located within designated Wellhead Protection Areas (Areas II or III).	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CLASS G	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
G.1	Contaminated soils and/or groundwater are located within areas vulnerable to contamination from surface sources.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CLASS H	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
H.1	Impacted surface water, stormwater or groundwater discharges within 500 feet of a surface water body used for human drinking water, whole body water-contact sports, or habitat to a protected or listed endangered plant and animal species.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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CLASSIFICATION	DESCRIPTION	YES	NO
CLASS I	LONG TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
I.1.	Site has contaminated soils and/or groundwater but does not meet any of the above-mentioned criteria.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ADDITIONAL COMMENTS:

Complete the classification evaluation questions listed above. Upon completion, determine the highest rank of the site (A.1 is the highest rank) based on the statements answered with a yes.

Enter the determined classification ranking:	I.1
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ADEM Form 480 8/02

2 INTRODUCTION

2.1 Site Location and Description

The subject site is located in the northeast $\frac{1}{4}$ of the northwest $\frac{1}{4}$ of Section 24, Township 14 South, Range 8 East. The site can further be described as being located at 310 Whites Gap Road, S.E., Jacksonville, Calhoun County, Alabama (Figure 1). The site is a fueling and maintenance facility for the Calhoun County Board of Education. It is occupied by a one-story building and three storage tanks that are registered as underground storage tanks (USTs) for storage of gasoline and diesel fuel (Figure 2). According to ADEM records, the existing USTs at the site are under temporary closure and fuel dispensing is no longer conducted at the site. The date of temporary closure is not given.

The USTs were previously connected to two separate dispensers. Underground product lines previously extended from the gasoline and diesel USTs to a bulk fuel loading area, where tank trucks are loaded to supply school buses at area schools. The product lines were closed in place in May 2000 and were not replaced.

2.2 Background

On March 27, 1995, annual tightness testing was performed on a 20,000-gallon diesel tank, a 10,000-gallon diesel tank, a 10,000-gallon gasoline UST, and one former 8,000-gallon gasoline UST used to store fuel for school buses. The former 8,000-gallon gasoline UST failed the test with a pressure loss rate per hour of 15.2 pounds per square inch. Fuel was immediately removed from the UST and the tank was taken out of service. The tank was removed in March 1997 and has not been replaced.

The Tank Tightness Report was submitted to the Alabama Department of Environmental Management (ADEM) for review. ADEM issued a Notification of Requirement (NOR) letter on August 28, 1995, for a Preliminary Investigation to evaluate the potential presence of soil and/or groundwater contamination. ADEM also determined that the Preliminary Investigation was eligible for reimbursement by the Alabama Tank Trust Fund (ATTF).

In March of 1996, Bhate conducted a Preliminary Investigation at the site and results were summarized in a report dated May 1, 1996. The Preliminary Investigation consisted of four soil probes (TMW-1 through TMW-4) advanced to an approximate depth of 23 feet (ft). Soil samples were collected and analyzed from each boring for total petroleum hydrocarbon (TPH) by Environmental Protection Agency (EPA) Method 418.1. Sample results did not indicate the presence of TPH concentrations above the ADEM Corrective Action Limit (CAL) of 100 parts-per-million (ppm).

The four borings were completed as $\frac{3}{4}$ inch diameter, polyvinyl chloride (PVC) groundwater monitoring wells (MW-1 through MW-4). Groundwater was measured at depths ranging from approximately 11 ft to 17 ft below ground surface (bgs). Field results of the Preliminary Investigation indicated that the direction of groundwater flow was generally to the northwest.

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Groundwater samples collected from the temporary monitoring wells were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 602 using a mobile laboratory. Results of the analysis indicated total BTEX concentrations ranging from below the method detection limit (BDL) to 696 parts-per-billion (ppb). The highest benzene concentration, 238 ppb, was detected in the groundwater sample MW-1. MW-1 was located upgradient of the 8,000 gallon UST but was abandoned due to construction activity near the well.

Following review of the Preliminary Investigation report, ADEM issued a letter dated July 23, 1996, to the Calhoun County Board of Education, requesting a Secondary Investigation Plan and Cost Proposal.

In December 1996, Bhate conducted an on-site Secondary Investigation. Eleven additional groundwater monitoring wells (MW-5 through MW-15) were installed at the site. Soil samples were collected from six borings, prior to monitoring well installation. Soil samples were selected from each boring and analyzed for BTEX, using EPA Method 602. A total BTEX concentration of 1,261 ppb was detected in the soil sample collected from 8 to 10 feet below ground surface in boring MW-7. A total BTEX concentration of 14,948 ppb was detected in the soil sample collected from 15 feet to 17 feet bgs in boring MW-14. Total BTEX concentrations in other soil samples were below detection limits.

Groundwater samples were collected from the monitoring wells and were analyzed for BTEX by EPA Method 602. Laboratory results indicated that samples from 10 monitoring wells and soil boring SB-16 contained benzene concentrations above the ADEM CAL of 5 ppb. Toluene was detected at concentrations above the ADEM CAL in the samples from MW-3, MW-11, and MW-14. Ethylbenzene was detected at concentrations above the ADEM CAL in the sample from MW-14.

On March 31, 1997, the empty 8,000-gallon UST that had contained gasoline and associated piping was removed from the subject site. Visual examination of the tank and piping following removal indicated no readily apparent holes. Groundwater was not encountered in the excavation. After collection of the necessary soil samples, the tank excavation was backfilled. TPH concentrations in soil samples collected from the UST excavation were below the ADEM CAL except one location, which had a TPH concentration of 1,810 ppm (Bhate, 1997).

On April 17, 1998, groundwater samples were collected from 13 of the 15 monitoring wells installed at the site. MW-2 was dry and MW-7 could not be located. Laboratory results indicated that samples from 10 wells contained benzene concentrations above the ADEM CAL of 5 ppb. Toluene, ethylbenzene, xylenes, and methyl tertiary butyl ether (MTBE) concentrations also exceeded the CAL in some of the wells with elevated benzene levels. The groundwater plume was found to have migrated generally to the north and west (Bhate, 1998).

Following review of the April 1998 sampling results, ADEM requested additional sampling at the site. A groundwater monitoring plan was submitted by Bhate and was accepted by ADEM. The first groundwater monitoring event took place on February 22, 1999.

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During February 2000, a soil-sampling program was conducted along gasoline and diesel bulk distribution lines prior to in-place closure of the lines. The bulk distribution lines extended from the USTs downhill to a location where a small tanker truck was filled with fuel. Soil sampling was also conducted at the location where the tanker truck was filled from the bulk distribution lines. Results of the product line sampling did not indicate TPH concentrations greater than 100 ppm except at a boring location at the former bulk fuel distribution location (Bhate, 2000).

On May 9, 2000, Bhate personnel observed the in-place closure of the fuel lines, which was performed by employees of the Calhoun County Board of Education. The contents of the fuel lines were drained into 55-gallon drums and properly disposed of by the Calhoun County Board of Education. Approximately 35 gallons of diesel fuel and 5 gallons of gasoline were removed from the lines prior to closure. When empty, a cap was placed on each end of the lines, thereby closing the lines in-place in accordance with ADEM standards.

A total of nine groundwater monitoring events were conducted from February 1999 to November 2002. Wells MW-5, MW-6, MW-9, MW-11, and MW-12 and the former truck bulk fueling area were covered by regrading of the bus parking lot during 2000 and were not available for sampling after 2000.

During November 2002, installation and sampling of six additional shallow permanent monitoring wells (MW-16, MW-18, MW-19, MW-20, MW-21, and MW-22) was conducted. Additional soil borings were also advanced near the former 8,000-gallon gasoline UST location. Data generated by the November 2002 sampling program was included in an Alabama Risk Based Corrective Action (ARBCA) report dated August 2003.

A Corrective Action Plan (CAP) was prepared for the site and submitted to ADEM in January 2005. The CAP included recommendations to install additional wells to better define the extent of BTEX and MTBE in groundwater. A mobile enhanced multiphase extraction (MEME) test was also recommended prior to final design of a dual phase extraction system which was recommended in the CAP as the best treatment option. On June 9, 2005, ADEM requested a Revised Corrective Action Plan and approved Cost Proposal #16 in a letter dated June 9, 2005. Cost Proposal #16 provided for the installation of additional monitoring wells MW-23, MW-24, MW-25, and MW-26, sampling of the wells, slug testing, and a MEME event. These activities were conducted during late June through July of 2005. The Revised CAP was submitted to ADEM in October 2005. The Revised CAP and associated Cost Proposals #17, #18, #19, #20, and #23 were not approved by ADEM.

Additional groundwater monitoring from selected wells was conducted from 2006 through 2009 under Cost Proposals #21, #22, and #24 through #29.

The sampling results for well MW-25 indicated that the groundwater plume was migrating offsite to the west. A vocational school operated by the Calhoun County Board of Education is located to the west of the bus shop (Figure 2). The presence of free product in well MW-21 and the persistent elevated BTEX and MTBE concentrations indicated the presence of an ongoing contaminant source, possibly near the USTs or the bus maintenance building. Following a meeting in December 2007 with ADEM to discuss future site requirements, ADEM issued a letter

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dated March 7, 2008, with requirements to perform tightness testing and additional site activities including an Additional Secondary Investigation. The Additional Secondary Investigation Plan was submitted to ADEM in April 2008. ADEM approved the plan and associated Cost Proposal #30 in a letter dated August 21, 2008. Monitoring wells MW-27 through MW-33 and recovery well RW-01 were installed during the Off-site Secondary Investigation conducted in 2008.

On August 12, 2014, monitoring wells MW-2R and MW-3R were installed using a hollow stem auger rig and were subsequently completed as Type-II groundwater monitoring wells under Cost Proposal #43. Type III monitoring wells were installed near existing monitoring wells MW-29 (new well MW-34), MW-28 (new well MW-35), and MW-27 (new well MW-36) (Figure 2) in April 2016 under Cost Proposal #47. A total of 35 groundwater sampling events were conducted at the site from 2008 through June 2023 under Cost Proposals #32 through #66. No free product was present in any of the monitoring wells during these sampling events.

The Alabama Department of Environmental Management (ADEM) requested High Resolution Site Characterization (HRSC) study of the site in a letter dated February 19, 2020. The HRSC was conducted under Cost Proposal #56.

At the request of ADEM, 4-inch diameter recovery wells were installed based on the HRSC conducted at the site under Cost Proposal #57 (Figure 2). Recovery wells RW-2, RW-3, and RW-4 were installed near the locations of HRS borings OIP-8, OIP-1, and OIP-6, respectively. Cost Proposals #58 through #61 were approved to continue groundwater sampling and conduct mobile enhanced multiphase extraction (MEME) events at the site. Six MEME events were then conducted at the recovery well locations from April through August 2021.

An additional recovery well (RW-02) was installed under Cost Proposal #62 and four more groundwater sampling, and five more MEME events were conducted included under Cost Proposals #63 through #66. The total recovery was only 8.81 equivalent gallons for 11 MEME events.

Prior MEME events have not been effective in reducing contaminant levels. Therefore, Bhate recommended that In-Situ Chemical Oxidation (ISCO) be considered at a remedial option. ADEM concurred in an email dated October 3, 2023, and requested preparation of Cost Proposal #67 for preparation of a modified CAP and UIC permit for the ISCO application. The following Modified CAP has been prepared under Cost Proposal #67.

2.3 Site Geology and Hydrogeology

The subject site lies within the Coosa Valley of the Valley and Ridge Province. This area is characterized by upland plain with varied relief and northeast-trending parallel ridges and valleys.

The subject site is underlain by the Cambrian Conasauga Formation (Moser and DeJarnette, 1992). The Conasauga Formation typically consists of light to dark gray, finely to coarsely crystalline, medium to thick-bedded dolomite and has an estimated thickness of about 2,500 feet.

The Conasauga Formation is the most productive aquifer in the Calhoun County area. Groundwater occurs in the bedrock section predominately in openings enlarged by solution processes along joints,

fractures, and bedding planes. Springs discharging 923 gallons per minute (gpm), or less, are common throughout the outcrop area of Conasauga.

Soil samples from the site were classified in the field based on visual characteristics. Soils from the surface to a depth of 10 ft were generally described as sandy silt and sandy clay. Soil samples from a depth of 10 ft to 23 ft were described as clays and sandy clays. Auger refusal on competent material was encountered during installation of deep well MW-27 at a depth of approximately 20 ft bgs. During drilling of the carbonate bedrock, mud seams were encountered which likely indicates secondary erosion openings are common in the shallow carbonate bedrock. Based on similar depths to groundwater between the deep well and nearby shallow wells, the mud seams appear to be connected to the overburden zone.

2.4 Aquifer Characterization

The subject site is located at an elevation of approximately 700 ft above mean sea level (Figure 1). Surface runoff from the site generally flows southwest toward a ditch along Whites Gap Road and west and northwest into a low-lying wooded area. Two springs discharge from beneath a filled area in the northern portion of the site and discharge to small ponds located on the vocational school property (Figure 2). The springs ultimately drain from the ponds to the northwest toward Tallaseehatchee Creek. The creek is located approximately 1,500 ft west of the site.

The depth to groundwater is less than 3 feet in the springs on the vocational school site and was about 15 to 20 feet in depth near the former 8,000-gallon gasoline UST location during the June 2023 measurements. The water table appears to be under confined conditions. Water levels have fluctuated as much as 10 feet between historic highs and lows in some wells. The direction of groundwater movement is generally toward the west and appears to ultimately discharge to the creek along Whites Gap Road and springs located in the northern portion of the vocational school property (Figure 3). Groundwater elevation data is summarized in Table 1.

The electrical conductivity logs generated during the HRSC study indicate conductivity of the soils (higher for fine-grained and lower for coarse-grained). Most of the gasoline contaminant resides in relatively coarser-grained soils based on the HRSC results. It should be noted that near the former 8,000-gallon gasoline UST location, the probe generally encountered soft probing below 10-foot depths which may indicate favorable conditions for fluid injection in the most contaminated zones.

3 SUMMARY OF SITE ASSESSMENTS

3.1 Soil

During the August 2021 HRSC study, five borings (OIP-01, OIP-05, OIP-08, OIP-08, and OIP20) were advanced immediately adjacent to optical interface probe (OIP) borings for the purposes of collecting soil samples at 2-foot intervals that had the highest OIP readings (Figure 4). Soil samples were collected by Bhate using a Large Bore™ sampler and delivered under chain of custody to Pace Analytical in Mt. Juliet, Tennessee. The soil samples were analyzed for benzene, toluene, ethylbenzene, xylenes, and methyl tertiary butyl ether using EPA Method 8260B. Soil sample results are summarized in Table 2.

Analytical results for soil samples collected near each of these borings indicate elevated BTEX and MTBE concentrations. The highest benzene and MTBE results were in soil samples collected near OIP-01 and OIP-05.

3.2 Groundwater

Groundwater analytical results have been summarized in Table 3. A benzene isoconcentration map for the June 2023 sampling event is provided as Figure 5.

The benzene concentrations in RW-05 and MW-27, exceeded the well-specific Site-Specific Target Levels (SSTLs) that were established by Bhate in the 2003 Alabama Risk Based Corrective Action evaluation (Bhate 2003). Benzene concentrations in MW-3, MW-20, MW-21, MW-35, and MW-36 exceeded the ADEM Initial Screening Levels (ISL) but did not exceed or do not have established SSTLs. Toluene and ethylbenzene concentrations in RW-5 exceeded the respective ISLs. However, none of the toluene, ethylbenzene, or xylene concentrations exceeded any of the well-specific SSTLs. The MTBE concentration in RW-05 and MW-20, exceeded the well-specific SSTL established for each well. The MTBE concentrations in MW-21, MW-27, MW-35, and MW-36 exceeded the ISL but did not exceed or do not have established SSTLs.

Dissolved hydrocarbon concentrations increased in RW-5 near the source area and in downgradient wells MW-35 and MW-36. Free product has not been measured in any of the site wells since 2007.

3.3 Surface Water

Two small springs are located on the vocational school property. There is potential for impacted groundwater to discharge to these springs. However, previous sampling of the springs from 2004 through 2008 did not detect gasoline constituents above the respective initial Screening Levels.

3.4 Light Nonaqueous Phase Liquids

Insitu Chemical Oxidation (ISCO) is being considered to clean up the last remaining area of elevated gasoline constituents in groundwater near the former 8,000-gallon gasoline UST location. However, before proceeding with ISCO, ADEM approved Cost Proposal #56 to conduct

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HRSC to better define the remaining source area. A report summarizing the HRSC was submitted to ADEM in September 2020 (Bhate 2020).

The results of the HRSC activities indicate that an area of LNAPL is centered around the former 8,000-gallon gasoline UST and extends downgradient to the northwest to OIP-03 (Figure 6). The primary source zone appears to be at a depth of approximately 17 to 30 feet below ground surface as indicated by the logs for OIP-01, OIP-05, OIP-08, and OIP-20. However, elevated fluorescence was also recorded at approximately 13 to 16 feet below ground surface at OIP-06. Borings OIP-6 and OIP-8 had the highest fluorescence values at the shallowest depths likely indicating these borings were closest to the release source. The elevated fluorescence zones in other borings are near the depth of the water table. Analytical results for soil samples collected near each of these borings indicate elevated BTEX and MTBE concentrations. The highest benzene and MTBE results were in soil samples collected near OIP-01 and OIP-05.

Although HPT flow rates and pressures should indicate relative permeability, Eagle Synergistic, the HRSC contractor, believes that the clayey soils may have plugged the ports in the instrument and caused falsely elevated HPT pressures and low flow rates in most boring locations. The electrical conductivity logs which indicate conductivity of the soils (higher for fine-grained and lower for coarse-grained) seem to indicate that most of the LNAPL resides in relatively coarser-grained soils. It should be noted that near the former 8,000-gallon gasoline UST location, the probe generally encountered soft probing below 10-foot depths which may indicate favorable conditions for fluid injection in the most contaminated zones.

4 SUMMARY OF PREVIOUSLY CONDUCTED CORRECTIVE ACTION

From April 2021 through July 2023, a total of 11 MEME events were conducted at the site. A cumulative total of 8.81 gallons equivalent were removed during the MEME Events. The results of the MEME events and groundwater sampling indicated persistent dissolved gasoline concentrations centered on RW-2 near the former 8,000-gallon gasoline UST. The MEME events did not reduce groundwater benzene concentrations to below groundwater resource protection target levels (GRPTLs). No other corrective action measures have been conducted at the site.

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5 EXPOSURE ASSESSMENT

A risk assessment establishing the SSTLs for the constituents of concern (COCs) was submitted to ADEM in a report *Risk Based Corrective Action Evaluation*, Bhate Environmental Associates, Inc., August 2003 (Bhate 2003).

5.1 Site Receptor Data

The immediate vicinity of the site can be characterized as mixed commercial and residential. The site is occupied by commercial receptors. A vocational school is located west of the site and single-family residences are located to the north and south of the site. An apartment complex is located to the east of the site.

5.1.1 Wells and Springs

An inactive public supply water well is located on Whites Gap Road adjacent to the entrance of the vocational school adjoining the site to the west. The City of Jacksonville Water Works obtains water from Germania Springs and Big Springs. It also purchases some water from the City of Anniston Coldwater Spring.

Two small springs are located on the vocational school property. There is potential for impacted groundwater to discharge to these springs. However, previous sampling of the springs from 2004 through 2008 did not detect gasoline constituents above the respective initial Screening Levels.

5.1.2 Ecological Receptors

No ecological receptors, such as wetlands, sensitive habitats, or the presence of endangered species, were observed within a 500-foot radius of the site. A spring is located on the vocational school property approximately 600 feet northwest of the former 8,000-gallon gasoline UST location.

5.2 Site-Specific Target Levels

The *ARBCA Tier 1/Tier 2 Evaluation Report*, prepared by Bhate, and submitted to ADEM in August 2003, has been accepted by ADEM. ADEM approved the following SSTLs established in the ARBCA for source area soils protective of groundwater resources and indoor air quality:

Constituent	SSTL for Soil Protective of Groundwater (mg/kg)	SSTL for Groundwater Protective of Indoor Air (mg/L)
Benzene	3.18	1.3
Toluene	1,360	260
Ethylbenzene	790	169
Xylenes	391	175
Methyl tert-butyl ether (MTBE)	3.43	5.2
mg/kg = milligrams per kilogram, mg/L = milligrams per liter		

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Benzene and MTBE concentrations in some soil samples collected from previous soil borings exceeded the target level for the indoor vapor inhalation pathway for commercial sites and for groundwater resource protection. None of the soil samples collected from previous soil borings exceeded the proposed SSTLs for toluene, ethylbenzene, and xylenes.

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6 PROPOSED REMEDIATION METHODS

The primary goal of the remediation process is to prevent potential vapor intrusion in existing site buildings and reduce dissolved gasoline constituents in soil and groundwater. Since benzene and MTBE concentrations in some soil samples collected from previous soil borings exceeded the target level for the indoor vapor inhalation pathway for commercial sites and for groundwater resource protection, the Modified CAP will address remediation of benzene and MTBE in soil and groundwater.

Prior MEME events have not been effective in reducing contaminant levels. Therefore, Bhate recommended that In-Situ Chemical Oxidation (ISCO) be considered as a remedial option. ADEM concurred in an email dated October 3, 2023 and requested preparation of Cost Proposal #67 for preparation of a modified CAP and UIC permit for the ISCO application.

6.1 Site-Specific Factors

Several site-specific factors, which are considered in selection of the remediation method, include:

- The average depth to groundwater is approximately 21 feet in the source area. Water levels have been relatively consistent during the groundwater monitoring program.
- Soils below the water table consist of silty clay to a depth of about 10 feet and sandy clay from 10 feet to an approximate depth of 30 feet. Hydraulic Profile Tool measurements obtained during the HRSC study indicate the zones of greatest contamination are relatively permeable.
- The area requiring treatment is accessible.
- Only benzene and MTBE currently exceeds SSTs for specific compliance well locations.

6.2 Chemical Properties of Benzene

6.2.1 Benzene Fate and Transport

The following information was obtained from the U.S. EPA Technical Factsheet on benzene:

If benzene is released to soil, it will be subject to rapid volatilization near the surface and that which does not evaporate will be highly to very highly mobile in the soil and may leach to groundwater. It may be subject to biodegradation based on reported biodegradation of 24% and 47% of the initial 20 ppm benzene in a base-rich para-brownish soil in 1 and 10 weeks, respectively (www.epa.gov). It may be subject to biodegradation in shallow, aerobic groundwaters, but probably not under anaerobic conditions.

If benzene is released to water, it will be subject to rapid volatilization. It will not be expected to significantly adsorb to sediment, bioconcentrate in aquatic organisms, or hydrolyze.

Benzene may be subject to biodegradation based on a reported biodegradation half-life of 16 days in an aerobic river die-away test. In a marine ecosystem biodegradation, occurred in 2 days after an acclimation period of 2 days and 2 weeks in the summer and spring, respectively,

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whereas no degradation occurred in winter. According to one experiment, benzene has a half-life of 17 days due to photodegradation which could contribute to benzene's removal in situations of cold water, poor nutrients, or other conditions less conducive to microbial degradation.

If benzene is released to the atmosphere, it will exist predominantly in the vapor phase. Gas-phase benzene will not be subject to direct photolysis, but it will react with photochemically produced hydroxyl radicals with a half-life of 13.4 days calculated using an experimental rate constant for the reaction. The reaction time in polluted atmospheres which contain nitrogen oxides or sulfur dioxide is accelerated with the half-life being reported as 4-6 hours. Products of photo oxidation include phenol, nitrophenols, nitrobenzene, formic acid, and peroxyacetyl nitrate.

Benzene is fairly soluble in water and is removed from the atmosphere in rain. The primary routes of exposure are inhalation of contaminated air, especially in areas with high traffic and in the vicinity of gasoline service stations, and consumption of contaminated drinking water.

6.2.2 Chemical/Physical Properties of Benzene

The chemical/physical properties of benzene are as follows:

- Chemical Abstracts Service (CAS) Number: 71-43-2
- Color/ Form/Odor: Clear, colorless aromatic liquid; highly flammable
- Vapor Pressure: 100 millimeters mercury (mm Hg) at 26.1 degrees Celsius (°C)
- Octanol/Water Partition (Kow): Log Kow = 2.13
- Density/Specific Gravity: 0.8787 at 15 °C
- Solubilities: 1.8 grams per liter (g/L) of water at 25 °C; Slightly soluble in water
- Soil sorption coefficient: Koc estimated at 98; high to very high mobility in soil
- Bioconcentration Factor: 3.5 to 4.4 in fish; not expected to bioconcentrate in aquatic organisms
- Henry's Law Coefficient: 0.0053 atmospheres cubic meter (atm-cu m)/mole

6.3 Chemical Properties of MTBE

6.3.1 MTBE Fate and Transport

The following information was obtained from the U.S. EPA 2013 Overview of MTBE:

Because MTBE dissolves easily in water and does not adsorb to soil very well, it migrates faster and farther in the ground than other gasoline components. MTBE does not degrade easily and is difficult to remove from ground water.

MTBE is generally more resistant to natural biodegradation than other gasoline components. Some monitoring wells have shown little overall reduction in MTBE concentration over several

years which suggests that MTBE is relatively persistent in ground water. In contrast, studies of surface water (lakes and reservoirs) have shown that MTBE volatilizes relatively quickly.

6.3.2 Chemical/Physical Properties of MTBE

The chemical/physical properties of benzene are as follows:

- Chemical Abstracts Service (CAS) Number: 1634-04-4
- Color/ Form/Odor: Clear, colorless aromatic liquid; flammable
- Vapor Pressure: 245 millimeters mercury (mm Hg) at 25 degrees Celsius (°C)
- Octanol/Water Partition (Kow): Log Kow = 1.24
- Density/Specific Gravity: 0.7405 at 15 °C
- Solubilities: 51 grams per liter (g/L) of water at 25 °C; highly soluble in water
- Soil sorption coefficient: Log Koc estimated at 1.05; very high mobility in soil
- Henry's Law Coefficient: 0.000587 atmospheres cubic meter (atm-cu m)/mole

6.4 Identification of Corrective Measure Technologies and Process Options

A thorough review of corrective measure technologies and process options was conducted for the site in the previous Corrective Action Plan prepared for the site in 2005. For purposes of this Modified Corrective Action Plan, the review of corrective measure technologies is limited to ISCO products recommended by Deep Earth technologies, Inc. (Cool-Ox) and Geolab, Inc. (Provect-OX).

As indicated by the HRSC study, the impacted area is relatively well defined and appears to be confined to the immediate area of the former 8,000-gallon gasoline UST.

6.4.1 In-Situ Chemical Oxidation (ISCO)

ISCO applications most employed to date use peroxide, ozone, and other oxidants. These oxidants have been able to cause the rapid and complete chemical destruction of many toxic organic chemicals; other organics are amenable to partial degradation as an aid to subsequent bioremediation. In general, the oxidants considered have been capable of achieving high treatment efficiencies (*e.g.*, > 90 percent) for unsaturated aliphatic (*e.g.*, trichloroethylene [TCE]) and aromatic compounds (*e.g.*, benzene and toluene), with very fast reaction rates (90 percent destruction in minutes). Field applications have clearly affirmed that matching the oxidant and in-situ delivery system to the COCs and the site conditions is the key to successful implementation and achieving performance goals.

Peroxide

Oxidation using liquid hydrogen peroxide (H₂O₂) in the presence of native or supplemental ferrous iron (Fe⁺²) produces Fenton's Reagent, which yields free hydroxyl radicals (OH⁻). These

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strong, nonspecific oxidants can rapidly degrade a variety of organic compounds. Fenton's Reagent oxidation is most effective under very acidic conditions (e.g., pH 2 to 4) and becomes ineffective under moderate to strongly alkaline conditions. The reactions are extremely rapid and follow second-order kinetics.

Ozone

Ozone (O₃) gas can oxidize contaminants directly or through the formation of hydroxyl radicals. Like peroxide, ozone reactions are most effective in systems with acidic conditions. The oxidation reaction proceeds with extremely fast, pseudo first order kinetics. Due to ozone's high reactivity and instability, O₃ is produced onsite, and it requires closely spaced delivery points (e.g., air sparging wells). In-situ decomposition of the ozone can lead to beneficial oxygenation and biostimulation.

Cool-Ox

According to Deep Earth Technologies, The Cool-Ox[®] process is a hydrogen peroxide-based technology designed to treat organic contaminants in various types of soils (especially clay) and groundwater. Unlike Fenton chemistry where liquid hydrogen peroxide is used as the source of the oxidizing radicals, the Cool-Ox[®] technology uses an aqueous suspension of solid peroxygen compounds. These compounds hydrolyze to generate hydrogen peroxide in the proximity of the contaminants. A key to the success of the technology is that the relative insolubility of these compounds allows the oxidizers to be produced over an extended period (up to three months). This long-term production of oxidizer greatly enhances the probability of the oxidizing compounds contacting the contaminants as well as providing an ongoing source of molecular oxygen for the enhancement of aerobic microbial proliferation.

Provect-OX

According to Geolab, Provect-OX is an in situ chemical oxidation / enhanced bioremediation reagent that uses ferric iron (Fe III) as a safe and effective means of activating persulfate (US Patent No. 9,126,245; patents pending). Provect-OX oxidizes a wide variety of organic compounds present in impacted soil, sediment and groundwater, including chlorinated solvents, petroleum hydrocarbons, and pesticides. Provect-OX is the only ISCO technology designed to actively manage rebound. The advanced activation catalyst is further unique considering its ability to enhance bioremediation processes. This is accomplished via the subsequent utilization of sulfate and iron as terminal electron acceptors for facultative reductive processes. Degradation intermediates generated during pollutant oxidation may act as electron shuttles, allowing the reduction of Fe(III) to Fe(II) in the redox cycling of iron and continued activation of persulfate. This combined remedy provides supplemental treatment mechanisms thereby allowing for more cost-efficient dosing of the product.

6.4.1.1 Effectiveness

The following factors may limit the applicability and effectiveness of chemical oxidation:

- Requirement for handling large quantities of hazardous oxidizing chemicals due to the oxidant demand of the target organic chemicals and the unproductive oxidant consumption of the formation.
- Contact between injected fluids with contaminated zones may be limited by fine-grained soils.
- Safe handling of oxidant is always a concern.

The rate and extent of degradation of a target constituent of concern (COC) are dictated by the properties of the chemical itself and its susceptibility to oxidative degradation as well as the matrix conditions such as permeability and porosity. The concentration of oxidant, and the concentration of other oxidant-consuming substances such as natural organic matter and reduced minerals as well as carbonate and other free radical scavengers can also reduce effectiveness of ISCO. Given the relatively indiscriminate and rapid rate of reaction of the oxidants with reduced substances, the method of delivery and distribution throughout a subsurface region is of paramount importance. Oxidant delivery systems often employ vertical or horizontal injection wells and sparge points with forced advection to rapidly move the oxidant into the subsurface.

Permanganate is relatively more stable and relatively more persistent in the subsurface; as a result, it can migrate by diffusive processes. Consideration also must be given to the effects of oxidation on the system. All three oxidation reactions can decrease the pH if the system is not buffered effectively. Other potential oxidation-induced effects include: colloid genesis leading to reduced permeability; mobilization of redox-sensitive and exchangeable sorbed metals; possible formation of toxic byproducts; evolution of heat and gas; and biological perturbation.

6.4.1.2 Recommendation

Bhate recommends that the site be remediated through ISCO using Cool-Ox®. Bhate has prepared cost proposals for this option. The design provided by Deep Earth Technologies for Cool-Ox® application is less expensive and includes more closer spaced injection points which increases the likelihood of contaminant contact with the injected fluids. In general, the oxidants have been capable of achieving high treatment efficiencies with fast reaction rates. ISCO has demonstrated the ability to reduce the concentrations of benzene to less than 1 microgram per liter (µg/L) at similar sites. In addition, literature indicates that benzene and MTBE can be effectively oxidized to below SSTLs.

6.4.2 UIC Permit

A UIC permit application approved under Cost Proposal #67 has been submitted to ADEM under separate cover in anticipation of the ISCO event. Bhate is currently waiting on ADEM to issue the UIC permit. A copy of the UIC permit application is provided in Appendix A.

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7 PROPOSED FIELD ACTIVITIES

Deep Earth Technologies estimates from historical site data provided by Bhate that impacted area totals 2,250 square feet near the former 8,000-gallon gasoline UST and volume of impacted soil is 1,250 cubic yards. They propose to prepare, batch, mix, and inject approximately 7,500 gallons of Cool-Ox into 63 direct push injection points. Probe rods will be pushed to target depths indicated by the HRSC study from 10 to 25 feet below ground surface and injection conducted through this 15-foot interval. Approximately 120 gallons of solution will be injected into each probe location. It is anticipated that radius of influence will be about 3 feet at each injection location, therefore Deep Earth Technologies proposes to conduct injections at 6 feet spacing between injection locations. Deep Earth Technologies will provide Direct Push Technology rig and a 22-foot mixing trailer.

Deep Earth Technologies proposes to complete the ISCO process in 5 working days. Additional details regarding the Cool-Ox process are provided in a scope of work prepared by Deep Earth Technologies found in Appendix B.

8 SAMPLING AND ANALYSIS PLAN

It is anticipated that additional sampling events to be conducted after ISCO will be necessary to evaluate the effectiveness of the ISCO process. At this time Bhate is assuming that ISCO will be conducted in spring 2024. Therefore, four additional groundwater sampling events are proposed under Cost Proposals #69 through #72, Included as Appendix C.

Groundwater sampling will be conducted at approximate 4-month intervals. Twelve of the existing 29 groundwater monitoring wells at the site will be sampled during each sampling event: MW-2R, MW-3, MW-3R, MW-10, MW-19, MW-20, MW-21, MW-24, MW-27, MW-34, MW-35, and MW-36.

Prior to sampling, the groundwater monitoring wells and recovery 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. Purge water will be contained in labeled 55-gallon drums on-site until disposal by Erwin Remediation can be arranged.

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 pace Analytical for analysis. Groundwater samples will be analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tertiary butyl ether (MTBE) using Environmental Protection Agency (USEPA) Method 8260B.

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 form will be prepared for each sampling event. If BTEX and MTBE concentrations decrease below the groundwater SSTLs for two consecutive sampling events, then no further action status will be recommended.

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9 SITE SAFETY AND HEALTH PLAN

A Site Safety and Health Plan (SSHP) has been prepared for the field activities associated with the remedial action and is provided in Appendix D.

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10 COST ESTIMATE

Vendor cost estimates are included in Appendix B. Cost proposals for implementation of the Modified CAP are provided in Appendix C and are listed below.

Cost Proposal #	Task Description	Proposed Cost
68	Cool Ox Application	\$128,359.60
69	Groundwater Sampling and Effectiveness Report	\$5,333.80
70	Groundwater Sampling and Effectiveness Report	\$5,333.80
71	Groundwater Sampling and Effectiveness Report	\$5,333.80
72	Groundwater Sampling and Effectiveness Report	\$5,333.80

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.

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11 REFERENCES

Bhate (Project No. ADEM000.0798), July 2023. *Groundwater Sampling and MEME event, Calhoun County Bus Shop.*

Bhate (Project No. ADEM000.0798), August 2003. *ARBCA for USTs Tier 1 & Tier 2, Calhoun County Bus Shop.*

Bhate (Project No. ADEM000.0798), September 2020. *High Resolution Site Characterization, Calhoun County Bus Shop.*

K.G. Mumford, K.G., Thomson, N.R. and Allen-King, R.M., May 2002. *Investigating the Kinetic Nature of Natural Oxidant Demand During ISCO.* Third International Conference on Remediation of Chlorinated and Recalcitrant Compounds.

Test Methods for Evaluation of Solid Wastes, Physical/Chemical Methods Compendium (SW-846, 3rd Edition Update IIIA).

U.S. EPA, February 2005, *Technical Factsheet on Benzene.*

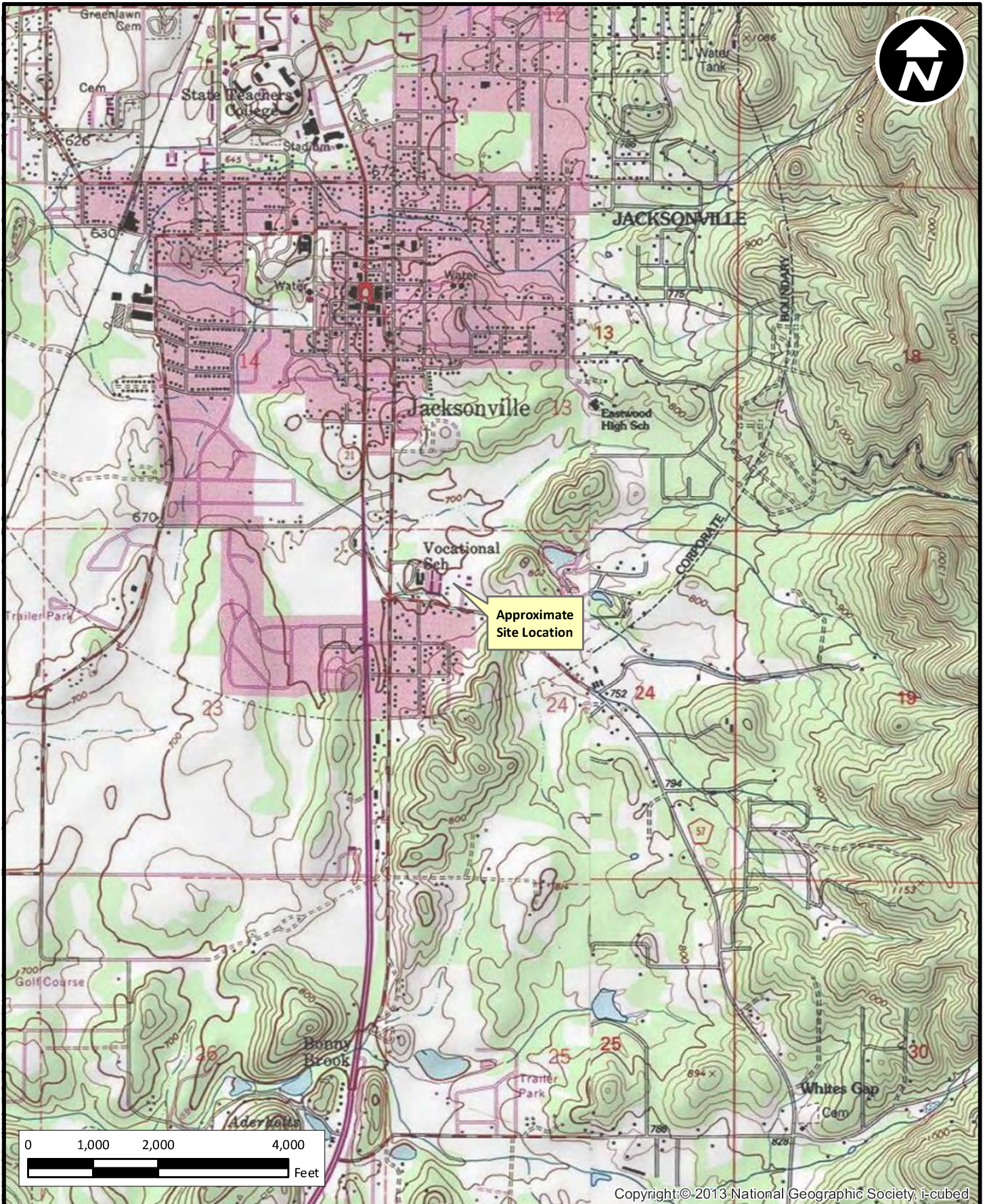
U.S. EPA, 2013, *Overview of MTBE.*

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FIGURES



www.bhate.com

Calhoun County Bus Shop
310 Whites Gap Road
Jacksonville, Alabama

PROJECT NO:

ADEM000.
0798.0066

SCALE:

As Shown

DATE:

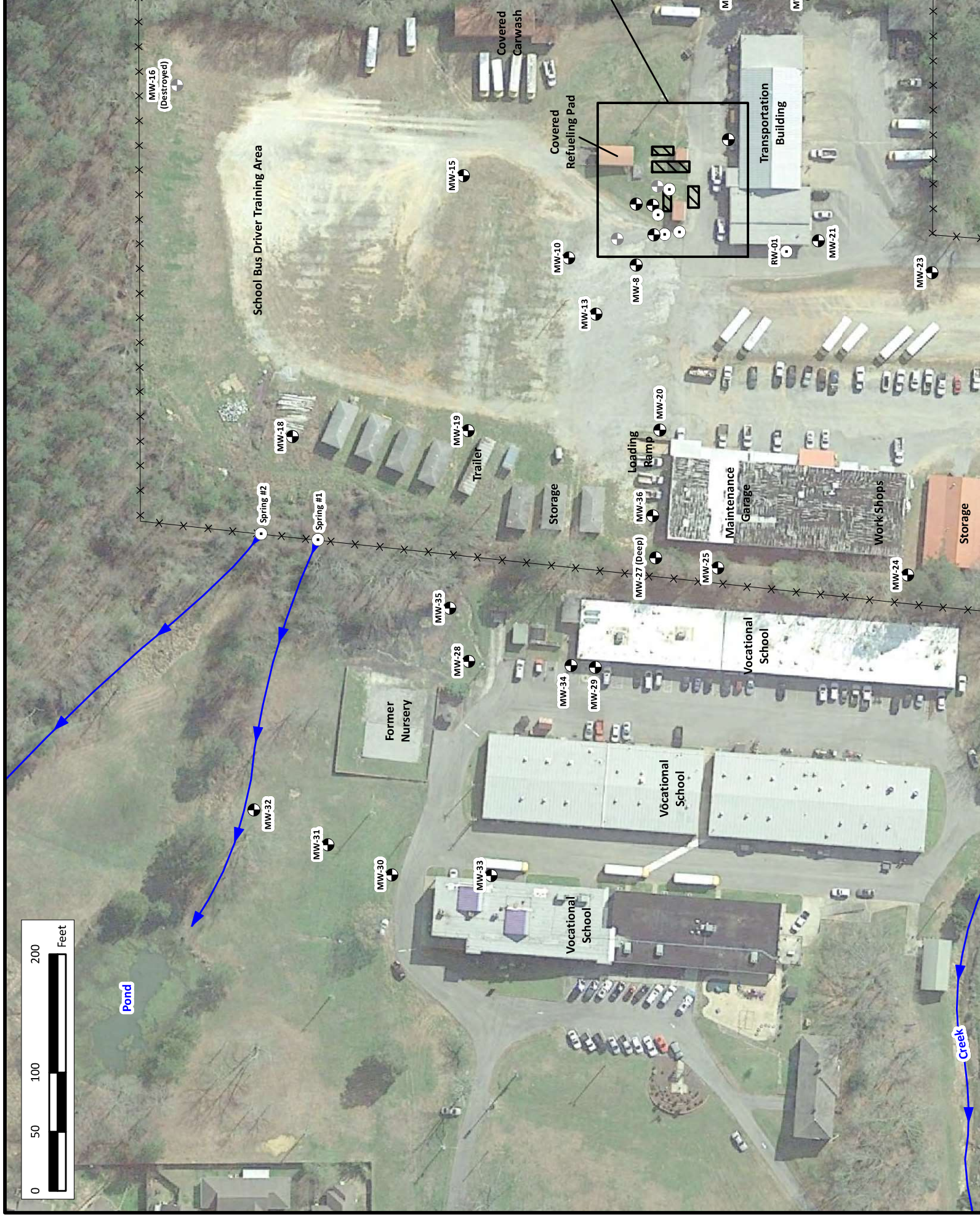
2/23/2024

DRAWN BY:

MRM/CM

Topographic Map

Figure 1





Pond

School Bus Driver Training Area

Spring #1
Spring #2

Former
Nursery

Vocational
School

Vocational
School

Vocational
School

Workshops

Creek

MW-15
(NM)

MW-10
(695.43)

MW-3R
(699.89)

MW-3
(700.94)

RW-04
(NM)

MW-2
(NM)

RW-03
(NM)

RW-02
(NM)

RW-05
(NM)

MW-21
(696.49)

RW-01
(NM)

MW-23
(NM)

MW-19
(695.06)

MW-20
(695.23)

MW-36
(694.40)

Loading
Ramp

Maintenance
Garage

MW-25
(NM)

MW-24
(692.50)

MW-35
(692.38)

MW-28
(NM)

MW-34
(693.58)

MW-29
(NM)

MW-27 (Deep)
(694.43)

MW-32
(NM)

MW-31
(688.61)

MW-30
(NM)

MW-33
(NM)

Vocational
School

Vocational
School

Vocational
School

Trailer

Storage

Storage

Transport
Building

UST/Disposal
Area



Boring Name	Date Sampled	Sample Depth (ft bgs)
OIP-1	8/11/2020	27.5-29.5
OIP-5	8/12/2020	26.5-28.5
OIP-6	8/11/2020	30.5-32.5
		13.5-15.5
		21.5-23.5
OIP-8	8/13/2020	16.75-18.75
		23.5-25.5
OIP-20	8/13/2020	21.5-23.5
		23.5-25.5

Notes:
mg/kg - milligrams per kilogram, BDL - Below the laboratory m
Soil Protective of Groundwater from August 2014 Alabama Ris
ft bgs - feet below ground surface

Soil Protective of Groundwater

MW-10

MW-13

OIP-10

MW-7

OIP-21

MW-8

OIP-12

OIP-4

MW-2

OIP-1

MW-3

OIP-16

OIP-20

MW-4

OIP-5

MW-2R

OIP-14

OIP-11

OIP-13

OIP-8

OIP-2

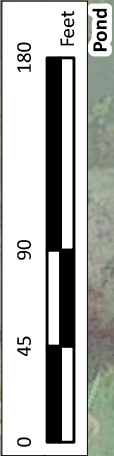
OIP-19

Approximate Area of Free Product
Indicated by Fluorescence

Dispensers

Form
8,000-Gal

10,000-Gallon UST
(Gasoline)



School Bus Driver Training Area

Former Nursery

Trailer

Storage

Loading Ramp

Vocational School

Vocational School

Maintenance Garage

Work Shops

MW-15 (NS)

MW-38 (BDL)

MW-2 (NS)

MW-10 (0.00481)

MW-8 (NS)

MW-13 (NS)

RW-03 (NS)

RW-02 (NS)

RW-05 (7.81)

RW-01 (NS)

MW-21 (0.0252)

MW-18 (NS)

Spring #2 (NS)

Spring #1 (NS)

MW-19 (0.0635)

MW-35 (0.25)

MW-28 (NS)

MW-34 (0.000571)

MW-29 (NS)

MW-27 (Deep) (0.268)

MW-25 (NS)

MW-24

MW-31 (NS)

MW-32 (NS)

MW-30 (NS)

MW-33 (NS)

MW-36 (0.0333)

MW-20 (0.0332)

1.0

0.01

0.001

0.1

1.0



MW-10

MW-13

OIP-10

OIP-9

MW-7

OIP-21

MW-3R

MW-8

OIP-4

OIP-12

OIP-1

MW-2

OIP-4

MW-3

OIP-1

MW-2

OIP-4

MW-3

OIP-1

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MODIFIED CORRECTIVE ACTION PLAN
CALHOUN COUNTY BUS SHOP, JACKSONVILLE, ALABAMA

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MODIFIED CORRECTIVE ACTION PLAN
CALHOUN COUNTY BUS SHOP, JACKSONVILLE, ALABAMA

TABLES

TABLE 1 GROUNDWATER ELEVATION AND WELL CONSTRUCTION DATA CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129						
Well No.	Top of Casing Elevation ¹ (feet amsl)	Screened Interval Depth (feet bgs)	Date	Depth to Product	Depth to Groundwater ²	Groundwater Elevation (feet amsl)
MW-2	716.14	8-18	6/26/2023	Not Measured		
			3/15/2023	Not Measured		
			12/19/2022	None	11.61	704.53
			12/19/22 to	Not Measured		
			7/17/2019	Not Measured		
			8/28/2018	None	17.72	698.42
			5/2/2018	None	17.42	698.72
			12/6/2017	None	Dry	Dry
			1/17/2017	None	Dry	Dry
			9/13/2016	None	9.28	706.86
MW-2R	716.47	11.1-26.1	12/19/2022	Destroyed		
			9/1/2022	None	22.78	693.69
			2/28/2022	None	17.62	698.85
			11/19/2021	None	23.82	692.65
			8/13/2021	None	16.81	699.66
			3/12/2020	None	17.33	699.14
			12/16/2019	None	23.01	693.46
			7/17/2019	None	23.92	692.55
			8/28/2018	None	23.27	693.20
			5/2/2018	None	20.14	696.33
			12/6/2017	None	22.55	693.92
			1/17/2017	None	Dry	Dry
			9/13/2016	None	Dry	Dry
			4/27/2016	None	22.90	693.57
			9/30/2015	None	19.90	696.57
			6/4/2015	None	19.38	697.09
			12/18/2014	None	22.84	693.63
			8/12/2014	None	23.51	692.96
					21.32	
			6/26/2023	None	17.10	700.94
			3/15/2023	None	14.01	704.03
MW-3	718.04	13.0-23.0	12/19/2022	None	13.46	704.58
			9/1/2022	None	20.81	697.23
			2/28/2022	None	11.26	706.78
			11/19/2021	None	21.51	696.53
			8/13/2021	None	19.18	698.86
			3/12/2020	None	11.88	706.16
			12/16/2019	None	18.78	699.26
			7/17/2019	None	21.32	696.72
			8/28/2018	None	20.04	698.00
			5/2/2018	None	16.98	701.06
			12/6/2017 to	Not Measured		
			8/2/2012	Not Measured		
			4/18/2012	None	19.61	698.43
			8/15/2011	Not measured		
			4/7/2011	Dry		
			6/15/2010	None	16.98	701.06
			1/5/2010	None	15.59	702.45
			9/9/2009	None	19.94	698.10
			4/27/2009	None	16.57	701.47
			1/28/2009	None	17.26	700.78
			11/17/2008	Dry		
			2/14/2008	None	17.11	700.93
			11/2/2007	None	21.85	696.19
			12/20/2006	Dry		
			7/10/2006	Dry		
			2/27/2006	Dry		
			7/5/2005	None	19.31	698.73
			11/17/2004	None	16.54	701.50
			3/31/2004	None	18.45	699.59
			11/8/2002	None	13.04	705.00
			10/17/2001	None	11.05	706.99
			7/2/2001	None	10.97	707.07
			3/16/2001	None	10.96	707.08
			12/10/1999	None	21.64	696.40
			9/3/1999	None	21.42	696.62
			6/18/1999	None	16.15	701.89
			2/22/1999	None	12.99	705.05
			4/17/1998	None	11.11	706.93
			1/7/1997	None	14.35	703.69

TABLE 1 GROUNDWATER ELEVATION AND WELL CONSTRUCTION DATA CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129						
Well No.	Top of Casing Elevation ¹ (feet amsl)	Screened Interval Depth (feet bgs)	Date	Depth to Product	Depth to Groundwater ²	Groundwater Elevation (feet amsl)
MW-3R	715.07	10.1-25.1	6/26/2023	None	15.18	699.89
			3/15/2023	None	11.84	703.23
			12/19/2022	None	13.55	701.52
			9/1/2022	None	19.96	695.11
			2/28/2022	None	10.10	704.97
			11/19/2021	None	20.71	694.36
			8/13/2021	None	17.24	697.83
			3/12/2020	None	11.15	703.92
			12/16/2019	None	18.90	696.17
			7/17/2019	None	20.68	694.39
			8/28/2018	None	18.88	696.19
			5/2/2018	None	14.87	700.20
			12/6/2017	None	19.40	695.67
			1/17/2017	None	21.38	693.79
			9/13/2016	None	22.73	692.34
			4/27/2016	None	17.45	697.62
			9/30/2015	None	21.02	694.05
			6/4/2015	None	14.26	700.81
			12/18/2014	None	18.85	696.22
			8/12/2014	None	20.28	694.79
MW-8	712.39	13.0-23.0	6/26/2023 to	Not Measured		
			8/28/2018	Not Measured		
			5/2/2018	None	15.32	697.07
			12/6/2017	None	18.40	693.99
			1/17/2017	None	19.58	692.81
			9/13/2016	None	20.47	691.92
			4/27/2016	None	16.81	695.58
			9/30/2015	None	19.11	693.28
			6/4/2015	None	14.78	697.61
			12/18/2014	None	18.09	694.30
			8/12/2014	None	18.54	693.85
			2/3/2014	Not Measured		
			10/7/2013	Not Measured		
			6/13/2013	Not Measured		
			12/11/2012	Not Measured		
			8/2/2012	Not Measured		
			4/18/2012	Not Measured		
			8/15/2011	Not Measured		
			4/7/2011	Dry		
			6/15/2010	None	15.38	697.01
			1/5/2010	None	14.43	697.96
			9/9/2009	None	18.21	694.18
			4/27/2009	None	15.16	697.23
			1/28/2009	None	15.69	696.70
			11/17/2008	None	19.51	692.88
			2/14/2008	None	17.58	694.81
			11/2/2007	None	19.85	692.54
			12/20/2006	None	18.83	693.56
			7/10/2006	Not Measured		
			2/27/2006	None	13.04	699.35
			7/5/2005	Well Not Found		
			11/17/2004			
			3/31/2004			
			11/8/2002			
			10/17/2001			
			7/2/2001			
			3/16/2001	None	12.45	699.94
			12/10/1999	None	19.35	693.04
			9/3/1999	None	18.72	693.67
			6/18/1999	None	16.71	695.68
			2/22/1999	None	13.92	698.47
			4/17/1998	None	16.71	695.68
			1/7/1997	None	15.99	696.40

TABLE 1 GROUNDWATER ELEVATION AND WELL CONSTRUCTION DATA CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129						
Well No.	Top of Casing Elevation ¹ (feet amsl)	Screened Interval Depth (feet bgs)	Date	Depth to Product	Depth to Groundwater ²	Groundwater Elevation (feet amsl)
MW-10	707.32	16.0-26.0	6/26/2023	None	11.89	695.43
			3/15/2023	None	5.56	701.76
			12/19/2022	None	7.12	700.20
			9/1/2022	None	13.48	693.84
			2/28/2022	None	6.15	701.17
			11/19/2021	None	14.19	693.13
			8/13/2021	None	12.31	695.01
			3/12/2020	None	4.75	702.57
			12/16/2019	None	13.19	694.13
			7/17/2019	None	14.24	693.08
			8/28/2018	None	13.52	693.80
			5/2/2018	None	10.23	697.09
			12/6/2017	None	13.00	694.32
			1/17/2017	None	14.54	692.78
			9/13/2016	None	15.58	691.74
			4/27/2016	None	12.37	694.95
			9/30/2015	None	14.30	693.02
			6/4/2015	None	8.88	698.44
			12/18/2014	None	13.08	694.24
			8/12/2014	None	13.86	693.46
			2/3/2014	None	4.86	702.46
			10/7/2013		Not Measured	
			6/13/2013	None	9.06	698.26
			12/11/2012	None	13.48	693.84
			8/2/2012		Not Measured	
			4/18/2012	None	13.86	693.46
			8/15/2011	None	14.37	692.95
			4/7/2011	None	9.50	697.82
			6/15/2010	None	11.38	695.94
			1/5/2010	None	9.55	697.77
			9/9/2009	None	12.85	694.47
			4/27/2009	None	9.36	697.96
			1/28/2009	None	9.40	697.92
			11/17/2008	None	14.94	692.38
			2/14/2008	None	13.31	694.01
			11/2/2007	None	15.92	691.40
			12/20/2006	None	12.89	694.43
			7/10/2006	None	14.34	692.98
			2/27/2006	None	8.43	698.89
			7/5/2005	None	13.12	694.20
			11/17/2004	None	12.69	694.63
			3/31/2004	None	12.29	683.83
			11/8/2002	None	10.20	697.12
			10/17/2001	None	7.65	699.67
			7/2/2001	None	7.61	699.71
			3/16/2001	None	7.63	699.69
			12/10/1999	None	14.22	693.10
			9/3/1999	None	14.25	693.07
			6/18/1999	None	7.99	699.33
			2/22/1999	None	8.65	698.67
			4/17/1998	None	9.15	698.17
			1/7/1997	None	9.24	698.08
MW-13	705.98	14.0-24.0	6/26/2023		Not Measured	
			3/15/2023		Not Measured	
			12/19/2022	None	8.89	697.09
			9/1/2022	None	12.88	693.10
			2/28/2022		Not Measured	
			7/17/2019		Not measured	
			8/28/2018	None	12.46	693.52
			5/2/2018	None	9.73	696.25
			12/6/2017	None	12.71	693.27
			1/17/2017	None	13.72	692.26
			9/13/2016	None	15.05	690.93
			4/27/2016	None	12.37	693.41
			9/30/2015	None	13.51	692.47
			6/4/2015	None	NM	NM
			12/18/2014	None	12.69	693.29
			8/12/2014	None	13.15	692.83
			2/3/2014	None	7.08	698.90
			10/7/2013	None	12.74	693.24
			6/13/2013	None	9.04	696.94
			12/11/2012	None	14.02	691.96
			8/2/2012	None	14.47	691.51
			4/18/2012	None	13.03	692.95
			8/15/2011	None	13.41	692.57
			4/7/2011		Obstructed, could not measure	
			6/15/2010	None	10.79	695.19
			1/5/2010	None	9.38	696.60
			9/9/2009	None	12.54	693.44
			4/27/2009	None	9.78	696.20
			1/28/2009	None	10.24	695.74
			11/17/2008	None	14.43	691.55
			2/14/2008	None	11.66	694.32
			11/2/2007	None	15.09	690.89
			12/20/2006	None	12.94	693.04
			7/10/2006	None	13.53	692.45
			2/27/2006	None	8.02	697.96
			7/5/2005	None	12.18	693.80
			11/17/2004	None	11.07	694.91
			3/31/2004	None	11.45	683.43
			11/8/2002	None	9.10	696.88
			10/17/2001	None	18.00	687.98
			7/2/2001	None	17.87	688.11
			3/16/2001	None	17.90	688.08
			12/10/1999	None	13.65	692.33
			9/3/1999	None	13.36	692.62
			6/18/1999	None	9.95	696.03
			2/22/1999	None	8.83	697.15
			4/17/1998	None	9.85	696.13
			1/7/1997	None	9.94	696.04

TABLE 1 GROUNDWATER ELEVATION AND WELL CONSTRUCTION DATA CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129						
Well No.	Top of Casing Elevation ¹ (feet amsl)	Screened Interval Depth (feet bgs)	Date	Depth to Product	Depth to Groundwater ²	Groundwater Elevation (feet amsl)
MW-14	720.73	14.0-24.0	6/26/2023		Not Measured	
			3/15/2023		Not Measured	
			12/19/2022	None	14.38	706.35
			9/1/2022 to		Not Measured	
			7/17/2019		Not measured	
			8/28/2018	None	20.36	700.37
			5/2/2018	None	16.74	703.99
			12/6/2017	None	18.65	702.08
			1/17/2017	None	21.08	699.65
			9/13/2016	None	23.31	697.42
			4/27/2016	None	19.35	701.38
			9/30/2015	None	20.70	700.03
			6/4/2015	None	13.88	706.85
			12/18/2014	None	19.88	700.85
			8/12/2014	None	20.08	700.65
			2/3/2014	None	7.78	712.95
			10/7/2013	None	19.32	701.41
			6/13/2013	None	14.98	705.75
			12/11/2012	None	4.64	716.09
			8/2/2012	None	21.58	699.15
			4/18/2012	None	21.11	699.62
			8/15/2011	None	Not Measured	
			4/7/2011	None	14.40	706.33
			6/15/2010	None	16.32	704.41
			1/5/2010	None	16.69	704.04
			9/9/2009	None	19.17	701.56
			4/27/2009	None	17.51	703.22
			1/28/2009	None	18.76	701.97
			11/17/2008	None	22.02	698.71
			2/14/2008	None	17.65	703.08
			11/2/2007	None	23.53	697.20
			12/20/2006	None	21.68	699.05
			7/10/2006	None	20.83	699.90
			2/27/2006	None	12.44	708.29
			7/5/2005	None	Not Measured	
			11/17/2004	None	16.84	703.89
			3/31/2004	None	18.78	701.95
			1/18/2002	None	13.45	707.28
			10/17/2001	None	11.90	708.83
			7/2/2001	None	11.91	708.82
			3/16/2001	None	11.93	708.80
			12/10/1999	None	21.94	698.79
			9/3/1999	None	21.33	699.40
			6/18/1999	None	14.84	705.89
			2/22/1999	None	13.21	707.52
			4/17/1998	None	8.85	711.88
			1/7/1997	None	13.19	707.54
MW-15	706.88	17.5-25.0	6/26/2023		Not measured	
			3/15/2023		Not measured	
			12/29/2022	None	5.89	700.99
			9/1/2022	None	11.64	695.24
			2/28/2022 to		Not measured	
			7/17/2019		Not measured	
			8/28/2018	None	11.14	695.74
			5/2/2018	None	7.92	698.96
			12/6/2017	None	12.05	694.83
			1/17/2017	None	14.43	692.45
			9/13/2016	None	13.96	692.92
			4/27/2016	None	10.15	696.73
			9/30/2015	None	12.79	694.09
			6/4/2015	None	7.37	699.51
			12/18/2014	None	11.91	694.97
			8/12/2014	None	12.05	694.83
			2/3/2014	None	5.98	700.90
			10/7/2013	None	11.85	695.03
			6/13/2013	None	7.49	699.39
			12/11/2012	None	14.52	692.36
			8/2/2012	None	13.76	693.12
			4/18/2012	None	11.81	695.07
			8/15/2011	None	12.08	694.80
			4/7/2011	None	8.98	697.90
			6/15/2010	None	8.89	697.99
			1/5/2010	None	6.58	700.30
			9/9/2009	None	11.74	695.14
			4/27/2009	None	7.88	699.00
			1/28/2009	None	7.76	699.12
			11/17/2008	None	13.88	693.00
			2/14/2008	None	12.15	694.73
			11/2/2007	None	15.52	691.36
			12/20/2006	None	12.52	694.36
			7/10/2006		Not Measured	
			2/27/2006	None	5.81	701.07
			7/5/2005	None	NM	NM
			11/17/2004	None	10.54	696.34
			3/31/2004	None	10.21	685.82
			11/8/2002	None	8.32	698.56
			10/17/2001	None	5.60	701.28
			7/2/2001		Not Found	
			3/16/2001	None	5.60	701.28
			12/10/1999		Not Found	
			9/3/1999			
			6/18/1999			
			2/22/1999			
			4/17/1998	None	8.96	697.92
			1/7/1997	None	8.94	697.94

TABLE 1 GROUNDWATER ELEVATION AND WELL CONSTRUCTION DATA CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129						
Well No.	Top of Casing Elevation ¹ (feet amsl)	Screened Interval Depth (feet bgs)	Date	Depth to Product	Depth to Groundwater ²	Groundwater Elevation (feet amsl)
MW-18	702.73	5.0-15.0	6/26/2023 to		Not Measured	
			8/28/2018		Not Measured	
			5/3/2018	None	9.08	693.65
			12/6/2017		Not Measured	
			1/17/2017	None	10.78	691.95
			9/13/2016	None	12.03	690.70
			4/27/2016			
			9/30/2015		Not Measured	
			6/4/2015	None	6.22	696.51
			12/18/2014	None	10.61	692.12
			8/12/2014	None	11.26	691.47
			2/3/2014	None	12.07	690.66
			6/13/2013		Not Measured	
			12/11/2012		Not Measured	
			8/2/2012	None	12.07	690.66
			4/18/2012	None	9.88	692.85
			8/15/2011		Not Measured	
			4/7/2011		Not Measured	
			6/15/2010	None	9.88	692.85
			1/5/2010	None	8.98	693.75
			9/9/2009	None	11.07	691.66
			4/27/2009	None	9.38	693.35
			1/28/2009	None	9.26	693.47
			11/17/2008	None	11.89	690.84
			2/14/2008	None	9.05	693.68
			11/2/2007	None	12.38	690.35
			12/30/2006	None	11.41	691.32
			7/10/2006	None	11.67	691.06
			2/27/2006	None	8.34	694.39
			7/5/2005	None	11.00	691.73
			11/17/2004	None	10.59	692.14
			3/31/2004		Well Damaged	
			11/8/2002	None	8.65	688.93

TABLE 1 GROUNDWATER ELEVATION AND WELL CONSTRUCTION DATA CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129						
Well No.	Top of Casing Elevation ¹ (feet amsl)	Screened Interval Depth (feet bgs)	Date	Depth to Product	Depth to Groundwater ²	Groundwater Elevation (feet amsl)
MW-19	701.29	5.0-15.0	6/26/2023	None	6.23	695.06
			3/15/2023	None	5.27	696.02
			12/19/2022	None	5.96	695.33
			9/1/2022	None	6.81	694.48
			2/28/2022	None	5.09	696.20
			11/19/2021	None	7.81	693.48
			8/13/2021	None	6.46	694.83
			3/12/2020	None	4.85	696.44
			12/16/2019	None	10.11	691.18
			7/17/2019	None	6.44	694.85
			8/28/2018	None	6.98	694.31
			5/2/2018	None	6.25	695.04
			12/6/2017	None	6.75	694.54
			1/17/2017	None	7.72	693.57
			9/13/2016	None	8.88	692.41
			4/27/2016	None	6.52	694.77
			9/30/2015	None	7.50	693.79
			6/4/2015	None	6.06	695.23
			12/18/2014	None	6.96	694.33
			8/12/2014	None	7.11	694.18
			2/3/2014	None	4.56	696.73
			10/7/2013	None	6.74	694.55
			6/13/2013	None	6.11	695.18
			12/11/2012	None	7.49	693.80
			8/2/2012	None	8.43	692.86
			4/18/2012	None	7.36	693.93
			8/15/2011	None	8.08	693.21
			4/7/2011	None	6.30	694.99
			6/15/2010	None	6.35	694.94
			1/5/2010	None	6.19	695.10
			9/9/2009	None	7.36	693.93
			4/27/2009	None	6.17	695.12
			1/28/2009	None	6.23	695.06
			11/17/2008	None	8.79	692.50
			2/14/2008	None	6.75	694.54
			11/2/2007	None	9.56	691.73
			12/20/2006	None	8.16	693.13
			7/10/2006	None	8.31	692.98
			2/27/2006	None	5.78	695.51
			7/5/2005	None	7.07	694.22
			11/17/2004	Not Found		
			3/31/2004	Not Found		
			11/8/2002	None	6.02	691.91

TABLE 1 GROUNDWATER ELEVATION AND WELL CONSTRUCTION DATA CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129						
Well No.	Top of Casing Elevation ¹ (feet amsl)	Screened Interval Depth (feet bgs)	Date	Depth to Product	Depth to Groundwater ²	Groundwater Elevation (feet amsl)
MW-20	710.05	10.0-25.0	6/26/2023	None	14.82	695.23
			3/15/2023	None	11.84	698.21
			12/19/2022	None	13.18	696.87
			9/1/2022	None	16.46	693.59
			2/28/2022	None	11.44	698.61
			11/19/2021	None	17.47	692.58
			8/13/2021	None	15.73	694.32
			3/12/2020	None	10.96	699.09
			12/16/2019	None	6.75	703.30
			7/17/2019	None	17.38	692.67
			8/28/2018	None	16.59	693.46
			5/2/2018	None	13.76	696.29
			12/6/2017	None	16.20	693.85
			1/17/2017	None	17.57	692.48
			9/13/2016	None	18.66	691.39
			4/27/2016	None	15.71	694.34
			9/30/2015	None	17.07	692.98
			6/4/2015	None	13.28	696.77
			12/18/2014	None	16.25	693.80
			8/12/2014	None	16.78	693.27
			2/3/2014	None	12.18	697.87
			10/7/2013	None	15.26	694.79
			6/13/2013	None	12.91	697.14
			12/11/2012	None	17.39	692.66
			8/2/2012	None	18.29	691.76
			4/18/2012	None	16.42	693.63
			8/15/2011	None	17.48	692.57
			4/7/2011	None	12.60	697.45
			6/15/2010	None	14.97	695.08
			1/5/2010	None	13.09	696.96
			9/9/2009	None	16.21	693.84
			4/27/2009	None	13.88	696.17
			1/28/2009	None	14.28	695.77
			11/17/2008	None	18.28	691.77
			2/14/2008	None	15.05	695.00
			11/2/2007	None	18.99	691.06
			12/20/2006	None	17.18	692.87
			7/10/2006	None	17.38	692.67
			2/27/2006	None	11.23	698.82
			7/5/2005	None	16.21	693.84
			11/17/2004	None	14.8	695.25
			3/31/2004	None	15.30	693.01
			11/8/2002	None	12.27	697.78

TABLE 1 GROUNDWATER ELEVATION AND WELL CONSTRUCTION DATA CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129						
Well No.	Top of Casing Elevation ¹ (feet amsl)	Screened Interval Depth (feet bgs)	Date	Depth to Product	Depth to Groundwater ²	Groundwater Elevation (feet amsl)
MW-21	718.29	15.0-30.0	6/26/2023	None	21.80	696.49
			3/15/2023	None	18.62	699.67
			12/19/2022	None	20.34	697.95
			9/1/2022	None	24.51	693.78
			2/28/2022	None	18.49	699.80
			11/19/2021	None	25.46	692.83
			8/13/2021	None	23.29	695.00
			3/12/2020	None	18.33	699.96
			12/16/2019	None	23.81	694.48
			7/17/2019	None	25.36	692.93
			8/28/2018	None	24.24	694.05
			5/2/2018	None	21.17	697.12
			12/6/2017	None	23.35	694.94
			1/17/2017	None	25.99	692.30
			9/13/2016	None	27.07	691.22
			4/27/2016	None	23.16	695.13
			9/30/2015	None	25.00	693.29
			6/4/2015	None	20.73	697.56
			12/18/2014	None	24.04	694.25
			8/12/2014	None	24.81	693.48
			2/3/2014	None	19.78	698.51
			10/7/2013	None	24.41	693.88
			6/13/2013	None	22.73	695.56
			12/11/2012	None	24.91	693.38
			8/2/2012	27.08	27.13	691.19*
			4/18/2012	None	25.13	693.16
			8/15/2011	None	25.76	692.53
			4/7/2011	None	21.0	697.29
			6/15/2010	None	22.74	695.55
			1/5/2010	None	21.29	697.00
			9/9/2009	None	24.54	693.75
			4/27/2009	None	21.88	696.41
			1/28/2009	None	22.18	696.11
			11/17/2008	26.55	26.72	691.76*
			2/14/2008	None	22.57	695.72
			11/2/2007	27.35	27.54	690.88*
			12/20/2006	25.05	25.12	693.22*
			7/10/2006	None	25.62	692.67
			2/27/2006	None	18.54	699.75
			7/5/2005	None	25.17	693.12
			11/17/2004	None	22.5	695.79
			3/31/2004	None	22.65	694.03
			11/8/2002	None	19.72	698.57

TABLE 1 GROUNDWATER ELEVATION AND WELL CONSTRUCTION DATA CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129						
Well No.	Top of Casing Elevation ¹ (feet amsl)	Screened Interval Depth (feet bgs)	Date	Depth to Product	Depth to Groundwater ²	Groundwater Elevation (feet amsl)
MW-22	720.89	20.0-35.0	6/26/2023		Not Measured	
			3/15/2023		Not Measured	
			12/19/2022	None	12.78	708.11
			9/1/2022	None	19.43	701.46
			2/28/2022 to		Not Measured	
			7/17/2019		Not Measured	
			8/28/2018	None	17.82	703.07
			5/2/2018	None	14.72	706.17
			12/6/2017	None	16.02	704.87
			1/17/2017	None	18.47	702.42
			9/13/2016	None	21.64	699.25
			4/27/2016	None	16.75	704.14
			9/30/2015	None	18.59	702.30
			6/4/2015	None	12.66	708.23
			12/18/2014	None	17.39	703.50
			8/12/2014	None	17.52	703.37
			2/3/2014	None	9.55	711.34
			10/7/2013	None	18.21	702.68
			6/13/2013	None	12.78	708.11
			12/11/2012		Not Measured	
			8/2/2012	None	19.41	701.48
			4/18/2012	None	17.94	702.95
			8/15/2011		Not Measured	
			4/7/2011	None	13.20	707.69
			6/15/2010	None	13.68	707.21
			1/5/2010	None	14.78	706.11
			9/9/2009	None	17.62	703.27
			4/27/2009	None	15.41	705.48
			1/28/2009	None	16.51	704.38
			11/17/2008	None	19.26	701.63
			2/14/2008	None	15.08	705.81
			11/2/2007	None	19.98	700.91
			12/20/2006	None	18.23	702.66
			7/10/2006		Not Measured	
			2/27/2006	None	11.28	709.61
			7/5/2005	None	15.36	705.53
			11/17/2004	None	15.28	705.61
			3/31/2004	None	15.83	702.29
			11/8/2002	None	12.47	708.42
MW-23	709.48	9.5-19.5	6/26/2023 to		Not Measured	
			7/17/2019		Not Measured	
			8/28/2018	None	15.28	694.20
			5/2/2018	None	11.47	698.01
			12/6/2017	None	12.10	697.38
			1/17/2017	None	15.93	693.55
			9/13/2016	None	17.68	691.80
			4/27/2016	None	13.11	696.37
			9/30/2015	None	14.70	694.78
			6/4/2015	None	9.98	699.50
			12/18/2014	None	13.78	695.70
			8/12/2014	None	14.88	694.60
			2/3/2014	None	8.81	700.67
			10/7/2013	None	13.98	695.50
			6/13/2013	None	10.38	699.10
			12/11/2012	None	12.04	697.44
			8/2/2012	None	15.19	694.29
			4/18/2012	None	15.31	694.17
			8/15/2011	None	16.18	693.30
			4/7/2011	None	18.1	691.38
			6/15/2010	None	12.27	697.21
			1/5/2010	None	11.32	698.16
			9/9/2009	None	16.54	692.94
			4/27/2009	None	11.69	697.79
			1/28/2009	None	11.73	697.75
			11/17/2008	None	16.75	692.73
			2/14/2008	None	11.35	698.13
			11/2/2007	None	18.05	691.43
			12/20/2006	None	15.04	694.44
			7/10/2006	None	16.14	693.34
			2/27/2006	None	6.82	702.66
			7/5/2005	None	14.01	695.47

TABLE 1 GROUNDWATER ELEVATION AND WELL CONSTRUCTION DATA CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129						
Well No.	Top of Casing Elevation ¹ (feet amsl)	Screened Interval Depth (feet bgs)	Date	Depth to Product	Depth to Groundwater ²	Groundwater Elevation (feet amsl)
MW-24	707.75	13-23	6/26/2023	None	15.25	692.50
			3/15/2023	None	14.55	693.20
			12/19/2022	None	15.84	691.91
			9/1/2022	None	16.92	690.83
			2/28/2022	None	14.31	693.44
			11/19/2021	None	17.45	690.30
			8/13/2021	None	16.95	690.80
			3/12/2020	None	14.28	693.47
			12/16/2019	None	16.72	691.03
			7/17/2019	None	17.59	690.16
			8/28/2018	None	17.48	690.27
			5/2/2018	None	16.44	691.31
			12/6/2016	None	15.65	692.10
			1/17/2017	None	17.50	690.25
			9/13/2016	None	17.97	689.78
			4/27/2016	None	17.03	690.72
			9/30/2015	None	17.32	690.43
			6/4/2015	None	15.96	691.79
			12/18/2014	None	16.83	690.92
			8/12/2014	None	17.17	690.58
			2/3/2014	None	14.21	693.54
			10/7/2013	None	14.91	692.84
			6/13/2013	None	15.52	692.23
			12/11/2012	None	15.51	692.24
			8/2/2012	None	17.54	690.21
			4/18/2012	None	16.78	690.97
			8/19/2011	None	17.34	690.41
			4/7/2011	Not Measured		
			6/15/2010	None	16.54	691.21
			1/5/2010	None	15.75	692.00
			9/9/2009	None	16.84	690.91
			4/27/2009	None	15.91	691.84
			1/28/2009	None	15.16	692.59
			11/17/2008	None	16.96	690.79
			2/14/2008	None	15.03	692.72
			11/2/2007	None	17.43	690.32
			12/20/2006	None	16.62	691.13
			7/10/2006	None	16.88	690.87
			2/27/2006	None	11.63	696.12
			7/5/2005	None	16.49	691.26
MW-25	704.55	13-23	6/26/2023	Not Measured		
			3/15/2023	Not Measured		
			12/19/2022	None	8.06	696.49
			9/1/2022 to	Not Measured		
			7/17/2019	Not Measured		
			8/28/2018	None	10.16	694.39
			5/2/2018	None	9.38	695.17
			12/6/2017	None	11.17	693.38
			1/17/2017	None	13.70	690.85
			9/13/2016	None	14.49	690.06
			4/27/2016	None	11.80	692.75
			9/30/2015	None	13.51	691.04
			6/4/2015	None	8.81	695.74
			12/18/2014	None	12.66	691.89
			8/12/2014	None	13.11	691.44
			2/3/2014	None	10.55	694.00
			10/7/2013	None	12.81	691.74
			6/13/2013	Not Measured		
			12/11/2012	None	12.87	691.68
			8/2/2012	Not Measured		
			4/18/2012	None	13.24	691.31
			8/15/2011	None	13.77	690.78
			4/7/2011	None	7.3	697.25
			6/15/2010	None	11.30	693.25
			1/5/2010	None	7.98	696.57
			9/9/2009	None	12.58	691.97
			4/27/2009	None	9.28	695.27
			1/28/2009	None	10.10	694.45
			11/17/2008	None	13.78	690.77
			2/14/2008	None	10.63	693.92
			11/2/2007	None	14.38	690.17
			12/20/2006	None	12.81	691.74
			7/10/2006	None	13.11	691.44
			2/27/2006	None	5.41	699.14
			7/5/2005	None	12.44	692.11

TABLE 1 GROUNDWATER ELEVATION AND WELL CONSTRUCTION DATA CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129						
Well No.	Top of Casing Elevation ¹ (feet amsl)	Screened Interval Depth (feet bgs)	Date	Depth to Product	Depth to Groundwater ²	Groundwater Elevation (feet amsl)
MW-26	719.64	12-27	6/26/2023 to	Not Measured		
			7/17/2019	Not Measured		
			8/28/2018	None	18.12	701.52
			5/2/2018	None	15.15	704.49
			12/6/2017	None	16.18	703.46
			1/17/2017	None	20.82	698.82
			9/13/2016	None	24.07	695.57
			4/27/2016	None	18.12	701.52
			9/30/2015	None	19.01	700.63
			6/4/2015	None	11.83	707.81
			12/18/2014	None	18.70	700.94
			8/12/2014	None	18.28	701.36
			2/3/2014	None	9.47	710.17
			10/7/2013	None	18.96	700.68
			6/13/2013	None	12.76	706.88
			12/11/2012	None	19.96	699.68
			8/2/2012	Not Measured		
			4/18/2012	None	17.94	701.70
			8/15/2011	None	14.13	705.51
			4/7/2011	Not Measured		
			6/15/2010	None	13.74	705.90
			1/5/2010	None	13.85	705.79
			9/9/2009	None	18.67	700.97
			4/27/2009	None	16.39	703.25
			1/28/2009	None	16.58	703.06
			11/17/2008	None	22.74	696.90
			2/14/2008	None	14.87	704.77
			11/2/2007	None	23.21	696.43
			12/20/2006	None	21.03	698.61
			7/10/2006	None	20.72	698.92
			2/27/2006	None	10.43	709.21
			7/5/2005	None	16.69	702.95
MW-27 (deep well)	703.63	26-31	6/26/2023	None	9.20	694.43
			3/15/2023	None	4.81	698.82
			12/19/2022	None	7.61	696.02
			9/1/2022	None	11.31	692.32
			2/28/2022	None	4.47	699.16
			11/13/2021	None	12.33	691.30
			8/13/2021	None	10.99	692.64
			3/12/2020	None	4.87	698.76
			12/16/2019	None	11.58	692.05
			7/17/2019	None	13.36	690.27
			8/28/2018	None	11.61	692.02
			5/2/2018	None	8.08	695.55
			12/6/2017	None	11.30	692.33
			1/17/2017	None	12.90	690.73
			9/13/2016	None	13.51	690.12
			4/27/2016	None	10.80	692.83
			9/30/2015	None	12.60	691.03
			6/4/2015	None	7.81	695.82
			12/18/2014	None	11.84	691.79
			8/12/2014	None	12.28	691.35
			2/3/2014	None	7.78	695.85
			10/7/2013	None	11.76	691.87
			6/13/2013	None	7.61	696.02
			12/11/2012	None	11.49	692.14
			8/2/2012	None	13.34	690.29
			4/18/2012	None	12.22	691.41
			8/15/2011	None	12.95	690.68
			4/7/2011	None	6.30	697.33
			6/15/2010	None	10.68	692.95
			1/5/2010	None	8.08	695.55
			9/9/2009	None	11.79	691.84
			4/27/2009	None	8.61	695.02
			1/28/2009	None	8.51	694.72
			11/17/2008	None	13.11	690.52

<p align="center">TABLE 1 GROUNDWATER ELEVATION AND WELL CONSTRUCTION DATA CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129</p>						
Well No.	Top of Casing Elevation ¹ (feet amsl)	Screened Interval Depth (feet bgs)	Date	Depth to Product	Depth to Groundwater ²	Groundwater Elevation (feet amsl)
MW-28	697.53	3.3-15.3	6/26/2023		Not Measured	
			3/15/2023		Not Measured	
			12/19/2022	None	6.01	691.52
			9/1/2022	None	7.97	689.56
			2/28/2022 to		Not Measured	
			7/17/2019		Not Measured	
			8/28/2018	None	8.77	688.76
			5/2/2018	None	6.28	691.25
			12/6/2017	None	7.00	690.53
			1/17/2017	None	8.68	688.85
			9/13/2016	None	10.32	687.21
			4/27/2016	None	7.85	689.68
			9/30/2015	None	8.05	689.48
			6/4/2015	None	5.26	692.27
			12/18/2014	None	7.67	689.86
			8/12/2014	None	8.16	689.37
			2/3/2014	None	6.04	691.49
			10/7/2013		Not Measured	
			6/13/2013		Not Measured	
			12/11/2012	None	7.88	689.65
			8/2/2012	None	9.34	688.19
			4/18/2012	None	8.58	688.95
			8/15/2011		Not Measured	
			4/7/2011		Not Measured	
			6/15/2010	None	7.41	690.12
			1/5/2010	None	6.04	691.49
			9/9/2009	None	8.18	689.35
			1/28/2009	None	6.65	690.88
			11/17/2008	None	9.08	688.45
MW-29	700.78	8-23	6/26/2023 to		Not Measured	
			7/17/2019		Not Measured	
			8/28/2018	None	11.58	689.20
			5/2/2018	None	6.65	694.13
			12/6/2017	None	8.41	692.37
			1/17/2017	None	10.22	690.56
			9/13/2016	None	11.02	689.76
			4/27/2016	None	8.39	692.39
			9/30/2015	None	9.71	691.07
			6/4/2015	None	5.62	695.16
			12/18/2014	None	9.09	691.69
			8/12/2014	None	9.27	691.51
			2/3/2014	None	5.79	694.99
			10/7/2013	None	8.84	691.94
			6/13/2013	None	5.43	695.35
			12/11/2012		Not Measured	
			8/2/2012	None	10.32	690.46
			4/18/2012	None	9.40	691.38
			8/15/2011	None	10.14	690.64
			4/7/2011	None	4.50	696.28
			6/15/2010	None	8.05	692.73
			1/5/2010	None	6.15	694.63
			9/9/2009	None	8.99	691.79
			4/27/2009	None	6.42	694.36
			1/28/2009	None	6.50	694.28
			11/17/2008	None	10.22	690.56
MW-30	700.73	2-17	6/25/2023		Not Measured	
			3/15/2023		Not Measured	
			12/19/2022	None	6.98	693.75
			9/1/2022 to		Not Measured	
			7/17/2019		Not Measured	
			8/28/2018	None	11.84	688.89
			5/2/2018	None	10.28	690.45
			12/6/2017	None	11.69	689.04
			1/17/2017	None	11.07	689.66
			9/13/2016	None	12.82	687.91
			4/27/2016	None	11.65	689.06
			9/30/2015	None	12.88	687.85
			6/4/2015	None	11.11	689.62
			12/18/2014	None	11.81	688.92
			8/12/2014	None	12.57	688.16
			2/3/2014	None	12.04	688.69
			10/7/2013		Not Measured	
			6/13/2013		Not Measured	
			12/11/2012	None	12.81	687.92
			8/2/2012		Not Measured	
			4/18/2012	None	12.60	688.13
			8/15/2011		Not Measured	
			4/7/2011		Not Measured	
			6/15/2010	None	11.58	689.15
			1/5/2010	None	11.49	689.24
			9/9/2009	None	11.95	688.78
			4/27/2009	None	11.74	688.99
			1/28/2009	None	11.88	688.85
			11/17/2008	None	13.54	687.19
MW-31	690.26	2-10	6/26/2023	None	1.65	688.61
			3/15/2023		Not Measured	
			12/19/2022	None	1.78	688.48
			9/1/2022	None	3.42	686.84
			2/28/2022 to		Not Measured	
			7/17/2019		Not Measured	
			8/28/2018	None	4.46	685.80
			5/2/2018	None	2.83	687.43
			12/6/2017	None	2.15	688.11
			1/17/2017	None	3.42	686.84
			9/13/2016	None	6.03	684.23
			4/27/2016	None	3.69	686.57
			9/30/2015	None	5.45	684.81
			6/4/2015	None	1.96	688.30
			12/18/2014	None	3.04	687.22
			8/12/2014	None	4.06	686.20
			2/3/2014	None	1.68	688.58
			10/7/2013		Not Measured	
			6/13/2013	None	2.69	687.57
			12/11/2012		Not Measured	
			8/2/2012	None	5.31	684.95
			4/18/2012	None	4.22	686.04
			8/15/2011		Not Measured	
			4/7/2011		Not Measured	
			6/15/2010	None	3.75	686.51
			1/5/2010	None	3.16	687.10
			9/9/2009	None	3.91	686.35
			4/27/2009	None	3.39	686.87
			1/28/2009	None	2.51	687.75
			11/17/2008	None	4.16	686.10

TABLE 1 GROUNDWATER ELEVATION AND WELL CONSTRUCTION DATA CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129						
Well No.	Top of Casing Elevation ¹ (feet amsl)	Screened Interval Depth (feet bgs)	Date	Depth to Product	Depth to Groundwater ²	Groundwater Elevation (feet amsl)
MW-32	687.45	2-10	6/26/2023		Not Measured	
			3/15/2023		Not Measured	
			12/19/2022	None	0.49	686.96
			9/1/2022	None	1.47	685.98
			2/28/2022 to		Not Measured	
			7/17/2019		Not Measured	
			8/28/2018	None	1.62	685.83
			5/2/2018	None	1.52	685.93
			12/6/2017	None	1.10	686.35
			1/17/2017	None	1.48	685.97
			9/13/2016	None	1.76	685.69
			4/27/2016	None	1.60	685.85
			9/30/2015	None	1.56	685.89
			6/4/2015	None	1.31	686.14
			12/18/2014	None	1.28	686.17
			8/12/2014	None	1.57	685.88
			2/3/2014	None	0.68	686.77
			10/7/2013	None	1.72	685.73
			6/13/2013		Not Measured	
			12/11/2012	None	1.71	685.74
			8/2/2012		Not Measured	
			4/18/2012	None	2.14	685.31
			8/15/2011	None	2.24	685.21
			4/7/2011		Not Measured	
			6/15/2010	None	2.05	685.40
			1/5/2010	None	1.47	685.98
			9/9/2009	None	3.01	684.44
			4/27/2009	None	1.95	685.50
			1/28/2009	None	1.05	686.40
			11/17/2008	None	2.21	685.24

TABLE 1 GROUNDWATER ELEVATION AND WELL CONSTRUCTION DATA CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129						
Well No.	Top of Casing Elevation ¹ (feet amsl)	Screened Interval Depth (feet bgs)	Date	Depth to Product	Depth to Groundwater ²	Groundwater Elevation (feet amsl)
MW-33	700.77	6.2-16.2	6/26/2023		Not Measured	
			3/15/2023		Not Measured	
			12/19/2022	None	6.97	693.80
			9/1/2022	None	9.38	691.39
			2/28/2022 to		Not Measured	
			7/17/2019		Not Measured	
			8/28/2018	None	10.42	690.35
			5/2/2018	None	7.68	693.09
			12/6/2017	None	8.92	691.85
			1/17/2017	None	10.08	690.69
			9/13/2016	None	11.07	689.70
			4/27/2016	None	10.02	690.75
			9/30/2015	None	9.63	691.14
			6/4/2015	None	5.43	695.34
			12/18/2014	None	9.81	690.96
			8/12/2014	None	9.66	691.11
			2/3/2014	None	7.99	692.78
			10/7/2013	None	9.82	690.95
			6/13/2013	None	6.58	694.19
			12/11/2012		Not Measured	
			8/2/2012		Not Measured	
			4/18/2012	None	10.08	690.69
			8/15/2011	None	10.78	689.99
			4/7/2011		Not Measured	
			6/15/2010	None	9.34	691.43
			1/5/2010	None	8.57	692.20
			9/9/2009	None	9.01	691.76
			4/27/2009	None	8.62	692.15
			1/28/2009	None	9.39	691.38
			11/17/2008	None	10.29	690.48

TABLE 1 GROUNDWATER ELEVATION AND WELL CONSTRUCTION DATA CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129						
Well No.	Top of Casing Elevation ¹ (feet amsl)	Screened Interval Depth (feet bgs)	Date	Depth to Product	Depth to Groundwater ²	Groundwater Elevation (feet amsl)
RW-01	718.33	15.5-30.5	6/26/2023		Not Measured	
			3/15/2023		Not Measured	
			12/19/2022	None	17.44	700.89
			9/1/2022 to		Not Measured	
			7/17/2019		Not Measured	
			8/28/2018	None	22.08	696.25
			5/2/2018	None	19.22	699.11
			12/6/2017	None	19.70	698.63
			1/17/2017	None	23.27	695.06
			9/13/2016	None	24.78	693.55
			4/27/2016	None	20.81	697.52
			9/30/2015	None	22.00	696.33
			6/4/2015	None	17.68	700.65
			12/19/2014	None	21.71	696.62
			8/12/2014	None	21.91	696.42
			2/3/2014	None	13.29	705.04
			10/7/2013		Not Measured	
			6/13/2013	None	18.12	700.21
			12/11/2012		Not Measured	
			8/2/2012	None	24.98	693.35
			4/18/2012	None	23.07	695.26
			8/15/2011		Not Measured	
			4/7/2011	None	17.80	700.53
			6/15/2010	None	20.17	698.16
			1/5/2010	None	19.17	699.16
			9/9/2009	None	24.02	694.31
			4/27/2009	None	19.64	698.69
			1/28/2009	None	20.21	698.12
			11/17/2008	None	26.85	691.48
MW-34	700.48	27.0-37.0	6/26/2023	None	6.90	693.58
			3/15/2023	None	4.12	696.36
			12/19/2022	None	5.66	694.82
			9/1/2022	None	8.68	691.80
			2/28/2022	None	3.23	697.25
			11/19/2021	None	9.52	690.96
			8/13/2021	None	8.28	692.20
			3/12/2020	None	3.76	696.72
			12/16/2019	None	8.77	691.71
			7/17/2019	None	9.31	691.17
			8/28/2018	None	9.12	691.36
			5/2/2018	None	6.22	694.26
			12/6/2017	None	8.20	692.28
			1/17/2017	None	9.96	690.52
			9/13/2016	None	10.76	689.72
			4/27/2016	None	8.10	692.38
			6/26/2023	None	3.38	692.38
MW-35	695.76	30.5-40.5	3/15/2023	None	0.08	695.68
			12/19/2022	None	1.41	694.35
			9/1/2022	None	6.21	689.55
			2/28/2022	None	0.50	695.26
			11/19/2021	None	5.41	690.35
			8/13/2021	None	5.18	690.58
			3/12/2020	None	0.51	694.85
			12/16/2019	None	4.81	690.95
			7/17/2019	None	5.14	690.62
			8/28/2018	None	5.36	690.40
			5/2/2018	None	2.74	693.02
			12/6/2017	None	2.40	693.36
			1/17/2017	None	4.60	691.16
			9/13/2016	None	6.42	689.34
			4/27/2016	None	3.80	691.96
			6/26/2023	None	11.37	694.40
			3/15/2023	None	7.34	698.43
MW-36	705.77	27.0-37.0	12/19/2022	None	9.76	696.01
			9/1/2022	None	13.48	692.29
			2/28/2022	None	6.59	699.18
			11/19/2021	None	14.53	691.24
			8/13/2021	None	17.47	688.30
			3/12/2020	None	7.00	698.77
			12/16/2019	None	13.76	692.01
			7/17/2019	None	14.43	691.34
			8/28/2018	None	13.94	691.83
			5/2/2018	None	10.28	695.49
			12/6/2017	None	13.00	692.77
			1/17/2017	None	15.00	690.77
			9/13/2016	None	15.62	690.15
			4/27/2016	None	12.99	692.78

Notes:

¹ Relative elevations are referenced to a temporary on-site benchmark (720.00 feet above mean sea level) located at the northeast corner of the valve box behind the gasoline pumphouse.

² Depth to groundwater is shown in feet below the top of the well casing

amsl - Above mean sea level, bgs - Below ground surface

* - Corrected for free product using: Corrected Groundwater Elevation = Groundwater Elevation + (0.70 x free product thickness in feet)

Table 1									
Summary of Soil Analytical Results									
Calhoun County Bus SHop									
Jacksonville, Calhoun County, Alabama									
Bhate Project No.: ADEM 000.0798									
Boring Name	Date Sampled	Sample Depth (ft bgs)	Maximum Fluorescence (%)	Volatile Organic Compounds (mg/kg)					
				Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	MTBE
OIP-1	8/11/2020	27.5-29.5	34.1	4.00	6.33	0.819	3.96	15.109	1.71
OIP-5	8/12/2020	26.5-28.5	24.9	12.1	18.5	25.1	116	171.7	5.85
		30.5-32.5	15	4.09	2.91	1.03	4.14	12.17	19.1
OIP-6	8/11/2020	13.5-15.5	43.3	0.0741	0.266	11.8	41.5	53.640	0.0130
		21.5-23.5	4.4	0.846	35.9	20.0	94.7	151.446	0.0132
OIP-8	8/13/2020	16.75-18.75	63.9	0.889	121	34.7	178	334.589	<0.02
		23.5-25.5	20	1.19	7.86	0.946	4.88	14.876	0.0929
OIP-20	8/13/2020	21.5-23.5	10	0.679	45.2	41.4	208	295.279	<0.1
		23.5-25.5	19.7	0.243	2.31	3.73	17.2	23.483	0.148
Soil Protective of Groundwater				3.18	1,360	790	391		3.43
Notes:									
mg/kg - milligrams per kilogram, BDL - Below the laboratory method detection limit									
Soil Protective of Groundwater from August 2014 Alabama Risk Based Corrective Action Evaluation									
ft bgs - feet below ground surface									

TABLE 3 GROUNDWATER ANALYTICAL RESULTS CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129								
Well No.	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Total Lead (mg/L)
MW-2	3/14/1996	BDL	BDL	BDL	BDL	BDL	NA	NA
	12/17/1996	NA	NA	NA	NA	NA	NA	NA
	4/17/1998	NA	NA	NA	NA	NA	NA	NA
	2/22/1999	0.037	0.148	0.461	0.040	0.6863	0.019	NA
	6/18/1999	NA	NA	NA	NA	NA	NA	NA
	9/3/1999	0.486	0.769	0.105	0.243	1.603	1.160	NA
	12/10/1999	NA	NA	NA	NA	NA	NA	NA
	3/16/2001	Insufficient Water						
	7/2/2001	Insufficient Water						
	10/17/2001	Insufficient Water						
	11/11/2002	Insufficient Water						
	3/31/2004	0.188	1.44	0.164	3.41	5.202	1.74	NA
	11/17/2004 to 4/28/16	Not Sampled						
	9/14/2016	0.017	<0.025	0.00823	<0.015	0.02523	0.104	NA
	1/17/2017	Dry						
	12/6/2017 to 9/2/2022	Not Sampled						
	12/19/2022	0.00221	<0.001	0.00102	<0.003	0.00323	0.205	NA
	3/15/2023	Not Sampled						
	6/26/2023	Not Sampled						
MW-2R/RW 05	8/14/2014	7.0	4.3	3.6	13.0	27.9	34.0	NA
	12/18/2014	4.9	3.2	2.2	8.5	18.8	26.0	NA
	6/4/2015	4.8	4.2	2.4	10.0	21.4	34.0	NA
	10/1/2015	3.57	<5.00	1.55	<3.00	5.12	7.5	NA
	4/28/2016	4.05	7.91	1.50	7.80	21.26	12.5	NA
	9/14/2016	Dry Not Sampled						
	1/17/2017	Dry Not Sampled						
	12/6/2017	5.51	12.0	3.48	16.50	37.49	28.30	NA
	5/2/2018	9.39	13.8	4.28	20.60	48.07	40.30	NA
	8/28/2018	4.33	9.39	2.40	12.30	28.42	7.80	NA
	7/17/2019	7.36	11.7	13.20	61.50	93.76	18.6	NA
	12/16/2019	12.6	33.3	77.70	49.40	173.0	31.5	NA
	3/12/2020	8.50	8.69	3.66	17.30	38.15	31.7	NA
	8/13/2021	0.485	<0.1	0.239	<0.3	0.72	3.97	NA
	11/19/2021	6.07	4.87	2.34	10.10	23.38	19.5	NA
	3/1/2022	8.40	5.58	2.93	12.30	29.21	15.3	NA
	9/2/2022	7.27	2.41	2.34	10.80	22.82	14.5	NA
	12/19/2022	Not Sampled						
	3/15/2023	4.79	2.09	1.18	5.83	13.89	7.51	NA
	6/27/2023	7.81	4.80	2.22	8.97	23.80	10.70	NA
MW-2R/5 SSTL (0 ft)		1.3	260.0	169.0	175.0	NE	5.2	NE
MW-3	3/14/1996	0.057	0.035	0.030	0.236	0.358	NA	0.006
	12/17/1996	0.743	2.841	0.647	1.603	5.834	NA	NA
	4/17/1998	0.284	3.890	1.980	9.680	15.834	0.202	NA
	2/22/1999	3.300	10.400	1.030	6.800	21.53	6.850	NA
	6/18/1999	2.500	12.000	0.720	3.040	18.26	6.600	NA
	9/3/1999	4.950	24.600	5.250	35.000	69.8	5.400	NA
	12/10/1999	0.061	0.084	0.013	0.109	0.2664	1.020	NA
	3/16/2001	1.240	6.890	1.110	5.510	14.75	0.826	NA
	7/2/2001	1.650	7.610	1.070	7.180	17.51	1.890	NA
	10/17/2001	2.000	5.280	1.220	8.220	16.72	3.010	NA
	11/11/2002	0.890	2.980	0.460	5.380	9.71	0.635	0.006
	3/31/2004	1.260	1.730	0.775	4.560	8.325	1.920	0.018
	11/17/2004	1.900	3.100	1.100	5.700	11.8	1.100	NA
	7/5/2005	0.860	1.400	0.420	2.600	5.28	1.400	NA
	2/27/2006	0.110	0.450	0.520	2.400	3.48	0.039	NA
	7/10/2006 to 9/14/2016	Not Sampled						
	1/18/2017	2.54	0.496	0.716	1.89	5.642	<0.100	NA
	12/6/2017	Dry						
	5/2/2018	0.094	0.227	0.128	0.57	1.022	0.0782	NA
	8/28/2018	0.863	0.585	0.351	1.22	3.019	2.32	NA
MW-3R	7/17/2019	1.98	0.0946	0.0557	0.184	2.3143	0.00317	NA
	12/16/2019	1.92	0.468	0.453	1.040	3.881	<0.0100	NA
	3/12/2020	0.0561	0.0338	0.0595	0.158	0.3074	<0.01	NA
	8/13/2021	0.0575	0.122	0.580	3.290	4.0495	<0.01	NA
	11/19/2021	1.83	0.265	0.304	0.881	3.28	0.0394	NA
	3/1/2022	0.437	0.0637	0.0618	0.274	0.8365	<0.01	NA
	9/2/2022	0.0979	0.0314	0.1370	0.300	0.5663	0.322	NA
	12/19/2022	0.111	0.0127	0.0436	0.075	0.2422	<0.01	NA
	3/16/2023	0.00231	0.000506	0.00948	0.0388	0.051096	<0.000101	NA
	6/26/2023	0.126	0.0111	0.022	0.0317	0.1908	<0.000101	NA
	8/13/2014	0.470	<0.025	0.017	0.042	0.529	0.230	NA
	12/18/2014	0.068	0.052	0.060	0.220	0.4	0.021	NA
	6/4/2015	0.034	0.023	0.031	0.082	0.17	0.007	NA
	10/1/2015	0.016	<0.005	0.00443	<0.003	0.02043	0.0852	NA
	4/28/2016	0.00955	<0.005	<0.001	<0.003	0.00955	<0.001	NA
	9/14/2016	0.0573	<0.005	<0.001	<0.003	0.05730	0.00298	NA
	1/18/2017	0.0134	0.0282	<0.001	<0.003	0.04160	0.00297	NA
	12/6/2017	0.1820	<0.001	0.0217	<0.003	0.20370	0.00482	NA
	5/2/2018	0.0455	0.0112	0.0119	0.0286	0.09720	0.00363	NA
	8/28/2018	0.0689	0.0144	0.0439	0.0355	0.16270	0.00971	NA
MW-3R SSTL (0 ft)	7/17/2019	0.0438	0.0767	0.0745	0.316	0.511	0.00915	NA
	12/16/2019	0.0340	0.0980	0.186	0.6430	0.961	0.01100	NA
	3/12/2020	0.0014	<0.001	<0.0005	<0.0015	0.0014	<0.001	NA
	8/13/2021	0.00354	0.00251	0.0220	0.123	0.15105	<0.001	NA
	11/19/2021	0.00187	0.00135	<0.001	<0.003	0.00322	0.0020	NA
	3/1/2022	0.0129	0.0155	0.0103	0.049	0.08770	0.00125	NA
	9/2/2022	0.00182	<0.001	0.00158	<0.003	0.00340	<0.001	NA
	12/19/2022	<0.001	<0.001	0.00194	0.00513	0.00707	<0.001	NA
	3/16/2023	<0.000094	<0.000278	0.000161	0.000634	0.000795	<0.000101	NA
	6/27/2023	<0.0000941	<0.000278	<0.000137	<0.000174	BDL	<0.000101	NA
	MW-3/3R SSTL (0 ft)		1.300	260	169	175	NE	5.2

<p align="center">TABLE 3 GROUNDWATER ANALYTICAL RESULTS CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129</p>								
Well No.	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Total Lead (mg/L)
MW-8	12/17/1996	0.003	0.005	BDL	0.001	0.009	NA	NA
	4/17/1998	1.34	0.0526	0.0842	0.262	1.7388	0.406	BDL
	2/22/1999	Not Sampled						
	to 12/20/06	Not Sampled						
	11/2/2007	0.28	BDL	0.029	BDL	0.309	1.1	NA
	2/14/2008	0.6	BDL	0.012	0.0051	0.6171	1.3	NA
	11/17/2008	0.19	BDL	0.0093	0.0061	0.2054	0.75	NA
	1/28/2009	0.21	BDL	0.039	0.038	0.287	1.5	NA
	4/27/2009	0.13	BDL	0.051	0.054	0.235	4.1	NA
	9/9/2009 to 8/2014	Not Sampled						
	8/13/2014	0.05	<0.005	0.069	0.019	0.138	2.7	NA
	12/18/2014	Not Sampled						
	to 4/27/2016	Not Sampled						
	9/14/2016	0.00608	<0.005	0.0019	<0.003	0.00798	0.19	NA
	Last Sampled on 9/14/2016							
MW-8 SSTL (70 ft)		0.463	92.5	64.8	175	NE	1.85	NE
MW-10	12/17/1996	0.331	0.279	0.046	0.165	0.821	NA	NA
	4/17/1998	0.585	0.450	0.382	0.990	2.407	0.338	NA
	2/22/1999	1.070	1.270	0.570	1.960	4.87	0.950	NA
	6/18/1999	1.120	0.194	0.481	1.690	3.485	1.190	NA
	9/3/1999	0.863	0.221	0.401	0.946	2.431	0.789	NA
	12/10/1999	0.037	0.016	0.003	0.016	0.0715	0.130	NA
	3/16/2001	1.590	0.230	1.100	3.940	6.86	1.330	NA
	7/2/2001	0.790	0.210	0.810	3.820	5.63	0.835	NA
	10/17/2001	0.337	0.043	0.121	0.284	0.7849	0.421	NA
	11/8/2002	1.340	0.048	0.778	1.910	4.076	1.200	0.003
	3/31/2004	0.282	0.013	0.131	0.360	0.786	0.434	0.032
	11/17/2004	0.460	BDL	0.170	0.320	0.95	0.890	NA
	7/5/2005	0.220	BDL	0.092	0.260	0.572	0.310	NA
	2/27/2006	0.180	BDL	0.210	0.400	0.79	0.250	NA
	7/10/2006	0.430	BDL	0.400	0.520	1.35	0.560	NA
	12/20/2006	0.140	BDL	0.096	0.130	0.366	0.200	NA
	11/2/2007	0.300	BDL	0.091	0.076	0.467	0.620	NA
	2/14/2008	0.170	BDL	0.020	0.041	0.231	0.320	NA
	11/17/2008	0.290	0.0063	0.170	0.130	0.5963	0.380	NA
	1/28/2009	0.120	BDL	0.0036	0.054	0.1776	0.210	NA
	4/28/2009	0.110	BDL	0.0092	0.016	0.1352	0.200	NA
	9/10/2009	0.160	BDL	0.0740	0.035	0.269	0.240	NA
	1/5/2010	0.071	BDL	0.0460	0.031	0.148	0.190	NA
	6/15/2010	0.120	BDL	0.0210	BDL	0.141	0.200	NA
	4/8/2011	BDL	BDL	BDL	BDL	BDL	2.600	NA
	8/15/2011	0.077	BDL	0.0400	BDL	0.117	0.310	NA
	4/19/2012	0.024	BDL	0.0021	0.0063	0.0324	0.350	NA
	8/2/2012	Not Sampled						
	12/12/2012	0.093	BDL	0.0340	0.0200	0.147	0.130	NA
	6/13/2013	0.068	BDL	0.0120	0.0035	0.0835	0.062	NA
	10/7/2013	Not Sampled						
	2/3/2014	Not Sampled						
	8/13/2014	0.084	<0.005	0.030	0.010	0.124	0.110	NA
	12/18/2014	0.094	0.0770	0.093	0.320	0.584	0.088	NA
	6/4/2015	0.045	0.0480	0.034	0.130	0.257	0.045	NA
	10/1/2015	0.0462	0.0132	0.0658	0.195	0.3202	0.00845	NA
	4/28/2016	0.0115	<0.005	0.00295	<0.003	0.01445	0.0605	NA
	9/13/2016	0.0723	<0.005	0.0373	0.00825	0.11785	0.145	NA
	1/17/2017	0.00792	<0.001	0.00154	<0.003	0.00946	0.0755	NA
	12/6/2017	0.0956	0.4350	0.0698	0.2510	0.8514	0.0720	NA
	5/2/2018	0.0132	0.0414	0.0243	0.1270	0.2059	0.0360	NA
	8/28/2018	0.0225	0.0404	0.0268	0.119	0.2087	0.0542	NA
	7/17/2019	0.0126	0.00309	0.00611	0.0178	0.0396	0.0297	NA
	12/16/2019	0.007810	0.00150	0.00296	0.00980	0.0221	0.0128	NA
	3/12/2020	0.00422	<0.001	0.00157	<0.0015	0.00579	0.00975	NA
	8/13/2021	0.00968	<0.001	0.01250	0.00674	0.02892	0.03850	NA
	11/19/2021	0.00343	<0.001	0.00115	<0.003	0.00458	0.0490	NA
	3/1/2022	0.00157	<0.001	0.00319	0.01100	0.01576	0.00348	NA
	9/1/2022	0.00452	<0.001	0.00457	0.00850	0.01759	0.02500	NA
	12/19/2022	0.00131	<0.001	0.00169	0.00506	0.00806	0.02090	NA
	3/15/2023	0.00174	<0.000278	0.00163	0.000461	0.003831	0.01070	NA
	6/26/2023	0.00481	0.00762	0.00980	0.01890	0.041130	0.01720	NA
MW-10 SSTL (120 ft)		0.196	39.2	27.5	175	NE	0.785	NE

<p align="center">TABLE 3 GROUNDWATER ANALYTICAL RESULTS CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129</p>								
Well No.	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Total Lead (mg/L)
MW-11	12/18/1996	0.092	1.307	0.199	0.630	2.228	NA	NA
	4/17/1998	0.068	0.006	0.027	0.027	0.1275	0.162	NA
	2/22/1999	0.057	0.007	0.003	0.053	0.1196	0.145	NA
	6/18/1999	0.142	0.002	0.096	0.057	0.2967	0.216	NA
	9/3/1999	0.148	0.163	0.119	0.233	0.663	0.165	NA
	12/10/1999	0.036	0.016	0.003	0.015	0.07	0.130	NA
	3/16/2001	Destroyed						
MW-12	12/18/1996	BDL	BDL	BDL	BDL	BDL	NA	NA
	4/17/1998	Not Sampled						
	2/22/1999	Not Found						
	6/18/1999	Not Found						
	9/3/1999	Not Found						
	12/10/1999	Not Found						
	3/16/2001	Destroyed						
MW-13	12/18/1996	0.010	0.031	BDL	0.011	0.052	NA	BDL
	4/17/1998	0.220	0.069	0.025	0.175	0.489	0.710	NA
	2/22/1999	0.800	1.690	0.470	1.230	4.19	0.155	NA
	6/18/1999	1.370	0.087	0.217	0.568	2.242	1.360	NA
	9/3/1999	0.709	0.112	0.047	0.120	0.988	1.530	NA
	12/10/1999	3.080	4.100	BDL	0.420	7.6	2.000	NA
	3/16/2001	0.019	0.029	0.018	0.069	0.1353	1.090	NA
	7/2/2001	0.710	0.036	0.044	0.348	1.138	1.790	NA
	10/17/2001	1.140	0.096	0.166	1.230	2.632	1.830	NA
	11/8/2002	0.585	0.005	0.005	0.048	0.6434	3.043	NA
	3/31/2004	0.013	0.0011	0.0033	0.0212	0.0386	1.900	BDL
	11/17/2004	0.130	BDL	BDL	BDL	0.13	2.000	NA
	7/5/2005	0.078	BDL	0.0150	0.0700	0.163	1.700	NA
	2/27/2006	0.130	BDL	0.0096	0.1700	0.3096	0.420	NA
	7/10/2006	0.140	0.0052	0.0320	0.1600	0.3372	1.100	NA
	12/20/2006	0.130	0.0074	0.0220	0.0820	0.2414	2.400	NA
	11/2/2007	0.520	BDL	0.1100	0.2200	0.85	3.000	NA
	2/14/2008	0.070	BDL	0.0082	BDL	0.0782	2.900	NA
	11/17/2008	0.240	BDL	0.0400	0.0440	0.324	3.100	NA
	1/28/2009	0.020	BDL	0.0016	0.0140	0.0356	2.800	NA
	4/27/2009	0.0011	BDL	BDL	BDL	0.0011	2.800	NA
	9/10/2009	0.330	BDL	0.0650	0.0320	0.427	2.200	NA
	1/5/2010	0.120	BDL	0.016	0.0290	0.165	2.500	NA
	6/15/2010	0.200	BDL	0.019	BDL	0.219	3.700	NA
	4/8/2011	0.980	BDL	0.270	0.2800	1.53	4.700	NA
	8/15/2011	0.054	BDL	BDL	BDL	0.054	3.200	NA
	4/19/2012	0.021	BDL	0.005	0.0043	0.0303	3.100	NA
	8/2/2012	0.13	BDL	0.018	0.020	0.168	2.300	NA
	12/12/2012	0.18	BDL	0.025	0.015	0.22	2.500	NA
	6/13/2013	Not Sampled						
	10/7/2013	0.15	BDL	0.028	0.019	0.197	2.600	NA
	2/3/2014	0.055	BDL	0.0084	0.019	0.0824	2.000	NA
	8/13/2014	0.079	<0.005	0.0086	0.0051	0.0927	1.600	NA
	12/18/2014	Not Sampled						
	to 4/27/2016	Not Sampled						
	9/13/2016	0.0237	<0.005	0.00128	0.00399	0.02897	0.935	NA
	1/17/2017	0.00430	<0.001	<0.001	<0.003	0.00430	0.142	NA
	Last Sampled on 1/17/2017							
MW-13 SSYL (150 ft)		0.131	26.3	18.4	175	NE	0.525	NE

TABLE 3 GROUNDWATER ANALYTICAL RESULTS CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129								
Well No.	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Total Lead (mg/L)
MW-14	12/18/1996	6.595	19.865	1.913	5.283	33.656	NA	NA
	4/17/1998	7.200	13.500	0.900	7.200	28.8	8.100	NA
	2/22/1999	2.800	5.900	0.600	3.800	13.1	0.700	NA
	6/18/1999	3.300	6.230	0.330	2.880	12.74	1.080	NA
	9/3/1999	6.330	8.250	8.250	3.440	26.27	4.180	NA
	12/10/1999	Not Sampled						
	3/16/2001	1.070	1.680	0.130	0.758	3.638	0.370	NA
	7/2/2001	0.501	1.350	0.119	0.609	2.579	0.082	NA
	10/17/2001	2.420	6.060	0.630	3.440	12.55	0.270	NA
	11/11/2002	1.400	1.870	0.310	1.320	4.9	0.250	BDL
	3/31/2004	0.748	1.020	0.170	0.652	2.786	0.196	NA
	11/17/2004	Not Sampled						
	7/5/2005	Not Sampled						
	2/27/2006	Not Sampled						
	7/10/2006	2.600	4.500	0.830	3.200	11.13	0.390	NA
	12/20/2006	1.800	1.100	0.480	1.800	5.18	0.260	NA
	11/2/2007	8.500	0.078	1.400	4.300	14.278	0.730	NA
	2/14/2008	0.890	0.040	0.120	0.380	1.43	0.088	NA
	11/17/2008	2.900	0.180	1.200	3.200	7.48	0.370	NA
	1/28/2009	1.300	0.130	0.500	1.400	3.33	0.190	NA
	4/27/2009	0.330	0.140	0.210	0.560	1.24	0.031	NA
	9/9/2009	0.640	BDL	0.410	0.980	2.03	0.056	NA
	1/5/2010	0.600	BDL	0.180	0.280	1.06	0.083	NA
	6/15/2010	0.092	0.012	0.014	0.110	0.228	0.0075	NA
	4/8/2011	0.180	0.0053	0.080	0.095	0.3603	0.0140	NA
	8/15/2011	Not Sampled						
	4/19/2012	Not Sampled						
	8/2/2012	0.98	0.038	0.50	0.49	2.008	0.084	NA
	12/11/2012	0.89	0.057	0.60	1.00	2.547	0.170	NA
	6/13/2013	Not Sampled						
	10/7/2013	0.49	0.041	0.22	0.34	1.091	0.046	NA
	2/3/2014	0.39	0.160	0.33	0.65	1.53	0.025	NA
	8/12/2014	0.18	0.016	0.13	0.25	0.576	0.041	NA
	12/18/2014	0.29	0.016	0.13	0.35	0.786	0.033	NA
	6/4/2015	0.15	<0.025	0.10	0.22	0.47	0.0094	NA
	10/1/2015	0.341	0.0673	0.40	0.931	1.7393	0.0414	NA
	4/27/2016	0.522	<0.1	0.685	1.03	2.237	0.0413	NA
	9/13/2016	0.126	<0.025	0.143	0.0919	0.3609	0.0140	NA
	1/17/2017	0.179	0.0217	0.116	0.143	0.4597	0.0321	NA
	Last Sampled on 1/17/2017							
	MW-14 SSTL (30 ft)	1.040	209	146	175	NE	4.18	NE

TABLE 3 GROUNDWATER ANALYTICAL RESULTS CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129								
Well No.	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Total Lead (mg/L)
MW-15	12/18/1996	0.002	0.003	BDL	2.000	2.005	NA	NA
	4/17/1998	0.003	0.001	0.001	0.005	0.010	0.003	NA
	2/22/1999	Not Found						
	6/18/1999	Not Found						
	9/3/1999	Not Found						
	12/10/1999	Not Found						
	3/16/2001	0.478	0.634	0.048	0.250	1.41	0.492	NA
	7/2/2001	Not Found						
	10/17/2001	1.190	0.175	1.130	4.670	7.165	1.040	NA
	11/11/2002	0.009	0.007	BDL	0.004	0.0199	0.004	0.014
	3/31/2004	BDL	BDL	BDL	BDL	BDL	BDL	NA
	11/17/2004 to	Not Sampled						
	12/20/2006	Not Sampled						
	11/2/2007	0.00051	BDL	BDL	BDL	0.00051	BDL	NA
	2/14/2008	Not Sampled						
	11/17/2008	0.00380	BDL	0.00083	BDL	0.00463	0.0023	NA
	1/28/2009	0.00460	BDL	0.00130	0.0061	0.012	0.0032	NA
	4/27/2009 to	Not Sampled						
	6/15/2010	Not Sampled						
	4/8/2011	0.048	BDL	BDL	0.004	0.052	0.180	NA
	8/15/2011	Not Sampled						
	4/19/2012	Not Sampled						
	8/3/2012	0.019	BDL	0.0028	0.0038	0.0256	0.49	NA
	12/11/2012	Not Sampled						
	6/13/2013	Not Sampled						
	10/7/2013	Not Sampled						
	2/3/2014	0.011	BDL	0.015	0.070	0.096	0.0036	NA
	8/13/2014	0.00067	<0.005	0.0015	<0.0015	0.00217	0.0089	NA
	12/18/2014	Not Sampled						
	to 4/27/2016	Not Sampled						
	9/14/2016	<0.001	<0.005	<0.001	<0.003	BDL	<0.001	NA
	Last Sampled on 9/14/2016							
MW-15 SSTL (170 ft)		0.104	20.8	14.6	175	NE	0.416	NE

TABLE 3 GROUNDWATER ANALYTICAL RESULTS CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129								
Well No.	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Total Lead (mg/L)
MW-18	11/11/2002	0.004	0.003	BDL	0.002	0.0091	0.004	0.006
	3/31/2004	Well Damaged						
	11/17/2004	Well Damaged						
	7/5/2005	BDL	BDL	BDL	BDL	BDL	BDL	NA
	2/27/2006	Not Sampled						
	7/10/2006	0.001	BDL	BDL	BDL	0.001	BDL	NA
	12/20/2006	0.0034	BDL	0.0030	0.0077	0.0141	0.0019	NA
	11/2/2007	0.015	BDL	0.0050	0.0210	0.041	BDL	NA
	2/14/2008	Not Sampled						
	11/18/2008	0.001	BDL	BDL	BDL	0.001	0.0018	NA
	1/28/2009	0.0017	BDL	0.00059	0.0017	0.00399	BDL	NA
	4/27/2009 to 8/2014	Not Sampled						
	8/12/2014	<0.0005	<0.005	<0.0005	<0.0015	BDL	<0.001	NA
	12/18/2014	Not Sampled						
	to 4/27/2016	Not Sampled						
	9/13/2016	<0.001	<0.005	<0.001	<0.003	BDL	<0.001	NA
Last Sampled on 9/13/2016								
MW-18 SSTL (350 ft)		0.026	5.16	3.61	51.6	NE	0.103	NE
MW-19	11/11/2002	0.081	0.124	0.023	0.108	0.336	4.070	BDL
	4/9/2004	0.165	BDL	0.055	BDL	0.220	4.720	BDL
	11/17/2004	Well Not Found						
	7/5/2005	0.070	BDL	0.016	0.025	0.111	1.700	BDL
	2/27/2006	1.600	4.000	0.850	3.800	10.25	2.500	NA
	7/10/2006	0.0037	BDL	BDL	BDL	0.0037	0.380	NA
	12/20/2006	0.0170	BDL	0.0018	0.0057	0.0245	0.130	NA
	11/2/2007	0.0041	BDL	BDL	0.0017	0.0058	0.048	NA
	2/14/2008	0.0260	BDL	0.00069	BDL	0.02669	0.035	NA
	11/18/2008	0.0059	BDL	0.00054	BDL	0.00644	0.021	NA
	1/28/2009	0.0350	0.046	0.02200	0.0550	0.158	0.047	NA
	4/28/2009	0.0270	0.012	0.06000	0.1100	0.209	0.120	NA
	9/9/2009	Not Sampled						
	1/5/2010	Not Sampled						
	6/15/2010	Not Sampled						
	4/8/2011	0.040	0.023	0.035	0.063	0.161	0.046	NA
	8/15/2011	0.0022	BDL	0.0028	0.011	0.016	0.013	NA
	4/19/2012	0.0029	BDL	BDL	BDL	0.0029	0.011	NA
	8/2/2012	Not Sampled						
	12/11/2012	Not Sampled						
	6/13/2013	0.5100	BDL	0.4800	1.000	1.99	0.540	NA
	10/7/2013	Not Sampled						
	2/3/2014	0.0160	0.0055	0.0290	0.099	0.1495	0.018	NA
	8/12/2014	0.0016	<0.005	0.0058	0.007	0.014	0.0048	NA
	12/18/2014	<0.001	<0.005	0.0024	0.0098	0.0122	0.0027	NA
	6/4/2015	0.100	<0.005	0.0470	0.1300	0.277	0.0190	NA
	10/1/2015	0.0152	<0.005	<0.001	<0.003	0.0152	0.0254	NA
	4/28/2016	0.0143	<0.005	<0.001	<0.003	0.0143	0.00993	NA
	9/13/2016	0.00186	<0.005	<0.001	<0.003	0.00186	0.00395	NA
	1/18/2017	<0.001	<0.001	<0.001	<0.003	BDL	<0.001	NA
	12/6/2017	<0.001	<0.001	<0.001	<0.003	BDL	0.00177	NA
	5/2/2018	0.00291	0.0021	0.00313	0.00701	0.01515	0.00799	NA
	8/28/2018	0.00366	0.1010	0.00706	0.03450	0.49772	0.0124	NA
	7/18/2019	0.0165	0.0150	0.110	0.210	4.4816	0.0438	NA
	12/16/2019	<0.001	<0.001	<0.001	<0.003	BDL	<0.001	NA
	3/12/2020	0.620	0.096	0.595	1.450	4.1301	1.29000	NA
	8/13/2021	<0.001	<0.001	<0.001	<0.003	BDL	0.00416	NA
	11/19/2021	<0.001	<0.001	<0.001	<0.003	BDL	0.00413	NA
	2/28/2022	0.310	0.00831	0.238	0.608	1.3691	0.131	NA
	9/1/2022	<0.001	<0.001	<0.001	<0.003	BDL	0.00171	NA
	12/19/2022	0.0186	<0.001	0.00578	0.00967	0.20483	0.00923	NA
	3/15/2023	0.0635	0.00108	0.0365	0.06970	0.17078	0.04860	NA
	6/27/2023	<0.0000941	<0.000278	<0.000137	<0.000174	BDL	0.00158	NA
MW-19 SSTL (240 ft)		0.054	10.8	7.55	108	NE	0.216	NE

TABLE 3 GROUNDWATER ANALYTICAL RESULTS CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129								
Well No.	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Total Lead (mg/L)
MW-20	11/11/2002	0.059	0.004	BDL	0.022	0.085	0.260	BDL
	3/31/2004	0.097	BDL	BDL	0.0455	0.1425	0.428	NA
	11/17/2004	Not Sampled						
	7/5/2005	Not Sampled						
	2/27/2006	0.016	BDL	0.0031	0.0270	0.0461	0.680	NA
	7/10/2006	0.600	BDL	BDL	0.3000	0.90	1.300	NA
	12/20/2006	0.380	BDL	0.0042	0.1600	0.5442	1.300	NA
	11/2/2007	0.340	BDL	BDL	0.1800	0.52	2.200	NA
	2/14/2008	0.059	BDL	BDL	0.0510	0.11	1.300	NA
	11/18/2008	0.600	BDL	BDL	0.2900	0.89	2.400	NA
	1/28/2009	0.740	BDL	0.0052	0.2600	1.0052	3.100	NA
	4/27/2009	0.016	BDL	BDL	BDL	0.016	1.200	NA
	9/9/2009	0.840	BDL	BDL	0.150	0.99	1.800	NA
	1/5/2010	0.410	BDL	BDL	0.054	0.464	1.200	NA
	6/15/2010	0.990	BDL	BDL	0.062	1.052	2.900	NA
	4/8/2011	1.400	BDL	BDL	0.090	1.49	3.500	NA
	8/15/2011	1.800	BDL	BDL	0.130	1.93	3.800	NA
	4/19/2012	1.400	BDL	BDL	0.061	1.461	3.500	NA
	8/2/2012	1.800	BDL	BDL	0.035	1.835	4.000	NA
	12/11/2012	1.900	BDL	BDL	0.090	1.990	4.200	NA
	6/13/2013	0.540	BDL	BDL	0.017	0.557	1.800	NA
	10/7/2013	1.100	BDL	0.00065	0.019	1.11965	2.200	NA
	2/3/2014	0.110	BDL	0.0011	0.0088	0.1199	0.660	NA
	8/13/2014	0.790	<0.025	<0.0025	0.0120	0.802	1.900	NA
	12/18/2014	1.300	<0.005	0.0028	0.0300	1.3328	2.200	NA
	6/4/2015	0.360	<0.25	<0.05	<0.15	0.36	1.300	NA
	9/30/2015	0.341	<0.25	0.455	2.18	2.976	0.347	NA
	4/28/2016	0.219	<0.005	<0.001	<0.003	0.219	0.808	NA
	9/13/2016	0.861	<0.05	<0.01	<0.03	0.861	1.84	NA
	1/17/2017	Not Sampled						
	12/6/2017	0.606	<0.001	<0.001	0.00712	0.61312	1.090	NA
	5/2/2018	0.287	0.00413	0.00217	0.01430	0.30760	0.863	NA
	8/28/2018	0.730	<0.01	<0.01	<0.03	0.730	1.280	NA
	7/17/2019	0.385	0.0437	0.0371	0.165	0.6308	1.26	NA
	12/16/2019	0.0182	0.0499	0.104	0.49	0.6661	0.00829	NA
	3/12/2020	0.575	<0.005	0.0033	0.0165	0.5948	1.620	NA
	8/13/2021	0.543	<0.005	<0.005	<0.015	0.543	0.893	NA
	11/19/2021	0.569	<0.005	<0.005	<0.015	0.569	1.00	NA
	2/28/2022	0.293	<0.05	<0.05	<0.15	0.293	0.852	NA
	9/1/2022	0.252	<0.01	<0.01	<0.03	0.252	0.528	NA
	12/19/2022	0.0334	<0.01	<0.01	<0.03	0.0334	0.467	NA
	3/15/2023	0.0100	<0.000278	0.000875	0.00189	0.012765	0.476	NA
	6/27/2023	0.0332	<0.00278	<0.00137	<0.00174	0.033200	0.534	NA
	MW-20 SSTL (170 ft)	0.104	20.8	14.6	175	NE	0.416	NE

TABLE 3 GROUNDWATER ANALYTICAL RESULTS CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129								
Well No.	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Total Lead (mg/L)
MW-21	11/11/2002	1.300	2.160	0.097	2.530	6.0869	1.470	BDL
	3/31/2004	3.500	8.480	2.540	12.800	27.32	4.400	BDL
	11/17/2004	2.400	6.800	1.800	10.000	21.0	2.000	BDL
	7/5/2005	2.600	6.900	1.700	8.900	20.1	2.800	BDL
	2/27/2006	0.120	0.210	0.047	0.370	0.747	0.120	NA
	7/11/2006	2.900	BDL	1.800	9.400	14.1	4.200	NA
	12/20/2006	Free Product Not Sampled						
	11/2/2007	Free Product Not Sampled						
	2/14/2008	1.700	2.400	1.60	9.80	15.5	1.900	NA
	11/18/2008	Free Product Not Sampled						
	1/28/2009	Not Sampled						
	4/27/2009	Not Sampled						
	9/9/2009	1.600	1.700	1.200	6.20	10.7	2.100	NA
	1/5/2010	1.300	0.900	0.660	4.10	6.96	1.600	NA
	6/15/2010	1.100	BDL	0.890	4.50	6.49	1.600	NA
	4/8/2011	1.200	BDL	1.100	5.40	7.7	1.800	NA
	8/15/2011	1.800	0.470	1.500	6.80	10.57	2.100	NA
	4/19/2012	1.400	0.250	0.910	4.30	6.86	1.500	NA
	8/2/2012	Free Product, Not Sampled						
	12/11/2012	Not Sampled						
	6/13/2013	0.760	0.084	0.400	2.40	3.644	0.880	NA
	10/7/2013	1.300	0.360	1.300	5.60	8.56	1.400	NA
	2/3/2014	0.530	0.083	0.330	1.80	2.743	0.550	NA
	8/12/2014	1.100	0.160	0.970	4.00	6.23	1.200	NA
	12/18/2014	1.200	0.140	1.200	4.80	7.34	1.300	NA
	6/4/2015	1.000	<0.5	1.100	5.40	7.50	1.200	NA
	10/1/2015	0.795	<0.25	1.010	4.30	6.105	0.809	NA
	4/27/2016	0.602	<0.125	0.584	2.52	3.706	0.557	NA
	9/13/2016	0.622	<0.125	0.718	2.87	4.21	0.860	NA
	1/17/2017	0.327	0.0276	0.392	1.46	2.2066	0.664	NA
	12/6/2017	0.366	0.0715	0.685	2.99	4.1125	0.347	NA
	5/2/2018	0.579	0.0647	0.900	3.41	4.9537	0.429	NA
	8/28/2018	0.182	0.0320	0.352	1.55	2.1160	0.334	NA
	7/17/2019	0.277	0.0232	0.310	1.42	2.0302	0.427	NA
	12/16/2019	0.0790	0.011	0.134	0.460	0.684	0.156	NA
	3/12/2020	0.0986	<0.01	0.0546	0.265	0.4182	0.114	NA
	8/13/2021	0.0437	0.0113	0.134	0.611	0.8000	0.0738	NA
	11/19/2021	0.0178	<0.0100	0.109	0.468	0.5948	0.0254	NA
	3/1/2022	0.0799	<0.0100	0.133	0.435	0.6479	0.0550	NA
	9/1/2022	0.0148	<0.0100	0.0767	0.292	0.3835	0.0309	NA
	12/19/2022	0.0191	<0.0100	0.0550	0.167	0.2411	0.0179	NA
	3/15/2023	0.0126	0.00105	0.0192	0.070	0.10285	0.0139	NA
	6/27/2023	0.0252	<0.00278	0.0331	0.129	0.18730	0.0295	NA
	MW-21 SSTL (60 ft)	0.566	113	79	175	NE	2.270	NE
MW-22	11/11/2002	0.015	0.019	0.002	0.015	0.0502	0.016	BDL
	3/31/2004	0.0135	0.0667	0.0299	0.1350	0.2451	0.0201	NA
	11/17/2004 to 12/20/2006	Not Sampled						
	11/2/2007	BDL	BDL	BDL	BDL	BDL	0.0220	NA
	2/14/2008	Not Sampled						
	11/17/2008	BDL	BDL	BDL	0.0019	0.0019	0.019	NA
	1/28/2009 to 6/15/2010	Not Sampled						
	4/7/2011	0.001	BDL	0.00087	BDL	0.00187	0.0044	NA
	8/15/2011 to 12/11/2012	Not Sampled						
	6/13/2013	BDL	BDL	BDL	BDL	BDL	0.0054	NA
	10/7/2013	Not Sampled						
	2/3/2014	Not Sampled						
	8/13/2014	<0.0005	<0.005	<0.0005	<0.0015	BDL	0.0031	NA
	12/18/2014 to 4/27/2016	Not Sampled						
	9/13/2016	<0.001	<0.005	<0.001	<0.003	BDL	0.00119	NA
	Last Sampled on 9/13/2016							
	MW-22 SSTL (160 ft)	0.117	23.3	16.3	175	NE	0.466	NE

<p align="center"> TABLE 3 GROUNDWATER ANALYTICAL RESULTS CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129 </p>								
Well No.	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Total Lead (mg/L)
MW-23	7/5/2005	BDL	BDL	BDL	0.0016	0.0016	BDL	NA
	2/27/2006	BDL	BDL	BDL	0.0019	0.0019	BDL	NA
	7/11/2006	BDL	BDL	BDL	BDL	BDL	BDL	NA
	12/20/2006	BDL	BDL	0.0037	0.014	0.0177	BDL	NA
	11/2/2007	BDL	BDL	BDL	BDL	BDL	BDL	NA
	2/14/2008	Not Sampled						
	11/17/2008	BDL	BDL	BDL	BDL	BDL	BDL	NA
	1/28/2009 to	Not Sampled						
	6/15/2010	Not Sampled						
	4/8/2011	0.0013	BDL	0.0062	0.0340	0.0415	BDL	NA
	8/15/2011	Not Sampled						
	4/19/2012	Not Sampled						
	8/2/2012	Not Sampled						
	12/11/2012	0.00097	BDL	0.00084	BDL	0.00181	BDL	NA
	6/13/2013	Not Sampled						
	10/8/2013	0.0075	BDL	0.0093	0.0380	0.0548	0.0015	NA
	2/3/2014	Not Sampled						
	8/13/2014	0.0023	<0.005	<0.0005	<0.0015	0.0023	<0.001	NA
	12/18/2014	Not Sampled						
	to 4/27/2016	Not Sampled						
	9/13/2016	0.00265	<0.005	0.00693	0.0286	0.03818	<0.001	NA
Last Sampled on 9/13/2016								
MW-23 SSTL (180 ft)		0.093	18.7	13.1	175	NE	0.374	NE
MW-24	7/5/2005	BDL	BDL	BDL	BDL	BDL	0.019	NA
	2/27/2006	BDL	BDL	BDL	BDL	BDL	0.0029	NA
	7/11/2006	0.0017	0.0073	0.0035	0.0190	0.0315	0.043	NA
	12/20/2006	BDL	BDL	0.0028	0.0100	0.0128	0.0058	NA
	11/2/2007	BDL	BDL	BDL	BDL	BDL	0.0066	NA
	2/14/2008	Not Sampled						
	11/18/2008	0.002	BDL	0.0035	0.0051	0.0106	0.0045	NA
	1/29/2009	0.0054	0.0077	0.0071	0.022	0.0422	0.0059	NA
	4/27/2009 to	Not Sampled						
	4/19/2012	Not Sampled						
	8/2/2012	BDL	BDL	0.00055	0.0021	0.00265	0.0010	NA
	12/11/2012	Not Sampled						
	6/14/2013	BDL	BDL	BDL	BDL	BDL	BDL	NA
	10/7/2013	Not Sampled						
	2/3/2014	Not Sampled						
	8/13/2014	0.0011	<0.005	<0.0005	<0.0015	0.0011	<0.001	NA
	12/18/2014	Not Sampled						
	to 4/27/2016	Not Sampled						
	9/13/2016	0.00335	<0.005	<0.001	<0.003	0.00335	0.00241	NA
	1/17/2017	<0.001	<0.001	<0.001	<0.003	BDL	<0.001	NA
	12/6/2017	0.00295	<0.001	<0.001	<0.003	0.00295	<0.001	NA
	5/2/2018	<0.001	0.00183	0.00132	0.00654	0.00969	<0.001	NA
	8/28/2018	0.00538	0.00350	0.00301	0.01500	0.02689	0.00266	NA
	7/18/2019	0.00790	0.00393	0.0194	0.0382	0.06943	0.0465	NA
	12/17/2019	0.0195	0.0485	0.143	0.343	0.5540	0.0023	NA
	3/12/2020	<0.0005	<0.001	<0.0005	<0.0015	BDL	0.00157	NA
	8/13/2021	<0.001	<0.001	<0.001	<0.003	BDL	<0.001	NA
	11/19/2021	<0.001	<0.001	<0.001	<0.003	BDL	<0.001	NA
	2/28/2022	<0.001	<0.001	<0.001	<0.003	BDL	<0.001	NA
	9/1/2022	<0.001	<0.001	<0.001	<0.003	BDL	<0.001	NA
	12/19/2022	<0.001	<0.001	0.00165	0.00477	0.00642	<0.001	NA
	3/15/2023	0.00011	<0.000278	0.000327	0.00101	0.001447	0.000112	NA
	6/27/2023	<0.0000941	<0.000278	<0.000137	<0.000174	BDL	<0.000101	NA
MW-24 SSTL (350 ft)		0.026	5.16	3.61	51.6	NE	0.103	NE

TABLE 3 GROUNDWATER ANALYTICAL RESULTS CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129								
Well No.	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Total Lead (mg/L)
MW-25	7/5/2005	0.220	0.61	0.086	0.67	1.586	0.68	NA
	2/27/2006	0.870	0.75	0.45	2.8	4.87	0.44	NA
	7/11/2006	1.4	0.29	0.3	0.89	2.88	1.4	NA
	12/20/2006	1.9	0.66	0.81	2.3	5.67	1.1	NA
	11/2/2007	1.7	BDL	0.28	BDL	1.98	1.6	NA
	2/14/2008	1.5	6.8	1.5	7.9	17.7	0.61	NA
	11/18/2008	0.13	BDL	0.096	0.0058	0.2318	0.099	NA
	1/29/2009	0.14	0.026	0.061	0.2	0.427	0.65	NA
	4/27/2009	0.14	BDL	0.18	0.089	0.409	0.41	NA
	9/9/2009	0.034	0.021	0.2	0.05	0.305	0.83	NA
	1/6/2010	0.270	0.056	0.46	0.35	1.136	0.60	NA
	6/16/2010	0.290	0.13	0.81	0.33	1.56	0.64	NA
	4/7/2011	0.060	BDL	0.069	0.28	0.409	0.47	NA
	8/16/2011	0.026	BDL	0.18	0.056	0.262	1.1	NA
	4/19/2012	BDL	BDL	BDL	BDL	BDL	0.39	
	8/2/2012	Not Sampled						
	12/11/2012	Not Sampled						
	6/13/2013	Not Sampled						
	10/7/2013	0.052	0.03	0.4	0.17	0.652	0.51	NA
	2/4/2014	0.035	BDL	0.14	0.022	0.197	0.24	NA
	8/13/2014	0.030	0.0083	0.13	0.12	0.2883	0.98	NA
	12/19/2014	0.021	0.0075	0.069	0.049	0.1465	0.45	NA
	6/5/2015	0.0093	<0.005	0.038	0.013	0.0603	0.048	NA
	9/30/2015	0.0140	<0.005	0.0351	0.0411	0.0902	0.0166	NA
	4/28/2016	0.0224	<0.005	0.0402	<0.003	0.0626	0.142	NA
	9/13/2016	0.00248	<0.005	<0.001	<0.003	0.00248	0.262	NA
	1/17/2017	0.00546	<0.001	0.0259	0.0225	0.05386	0.163	NA
	Last Sampled on 1/17/2017							
	MW-25 SSTL (300 ft)	0.035	6.98	4.89	69.8	NE	0.14	NE

TABLE 3 GROUNDWATER ANALYTICAL RESULTS CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129								
Well No.	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Total Lead (mg/L)
MW-26	7/5/2005	BDL	BDL	0.00055	0.003	0.0036	0.0016	NA
	2/27/2006	0.012	0.029	0.0077	0.059	0.1077	0.0073	NA
	7/11/2006	0.0058	0.02	0.0086	0.048	0.0824	0.0014	NA
	12/20/2006	0.00094	BDL	0.0016	0.0047	0.00724	0.0024	NA
	11/2/2007	Not Sampled						
	2/14/2008	Not Sampled						
	11/17/2008	BDL	BDL	BDL	BDL	BDL	BDL	NA
	1/28/2009 to	Not Sampled						
	8/2/2012	Not Sampled						
	12/11/2012	0.00084	BDL	0.0015	0.0022	0.00454	BDL	NA
	6/13/2013	Not Sampled						
	10/7/2013	0.00260	BDL	BDL	BDL	0.0026	BDL	NA
	2/3/2014	Not Sampled						
	8/13/2014	<0.0005	<0.005	<0.0005	<0.0015	BDL	<0.001	NA
	12/18/2014	Not Sampled						
MW-27 (Deep)	to 4/27/2016	Not Sampled						
	9/13/2016	<0.001	<0.005	<0.001	<0.003	BDL	<0.001	NA
	Last Sampled on 9/13/2016							
	11/18/2008	0.650	1.2	0.47	2.0	4.32	2.4	NA
	1/29/2009	0.520	1.4	0.86	3.0	5.78	1.2	NA
	4/27/2009	0.470	1.0	0.84	2.6	4.91	0.83	NA
	9/9/2009	0.540	BDL	0.99	2.4	3.93	1.0	NA
	1/6/2010	0.410	0.22	1.1	2.4	4.13	0.8	NA
	6/16/2010	0.014	0.02	0.05	0.21	0.294	0.042	NA
	4/8/2011	0.084	0.20	0.22	0.65	1.154	0.310	NA
	8/16/2011	0.420	0.015	0.62	0.45	1.505	2.000	NA
	4/19/2012	0.270	BDL	0.54	1.10	1.91	0.430	NA
	8/2/2012	0.230	BDL	0.22	0.12	0.57	1.900	NA
	12/11/2012	0.720	0.650	0.77	1.60	3.74	1.700	NA
	6/14/2013	0.400	0.740	1.3	2.50	4.94	0.340	NA
	10/7/2013	0.560	BDL	1.2	2.60	4.36	0.490	NA
	2/4/2014	0.360	0.470	1.1	2.40	4.33	0.360	NA
	8/13/2014	0.670	<0.12	1.2	2.40	4.27	0.490	NA
	12/18/2014	0.540	1.400	1.3	3.40	6.64	0.350	NA
	6/5/2015	0.330	1.500	1.1	2.90	5.83	0.150	NA
	9/30/2015	0.310	<0.025	0.635	0.736	1.681	0.359	NA
	4/28/2016	0.275	0.687	1.02	2.35	4.332	0.175	NA
	9/13/2016	0.259	<0.25	<0.05	<0.150	0.259	1.97	NA
	1/17/2017	0.215	0.615	0.848	2.18	3.858	0.375	NA
	12/6/2017	0.400	1.260	1.38	3.53	6.570	0.190	NA
	5/2/2018	0.205	1.070	0.783	1.86	3.918	0.0717	NA
	8/29/2018	0.226	0.184	0.732	1.34	2.482	0.129	NA
	7/17/2019	0.413	0.163	0.956	1.90	3.432	0.182	NA
	12/16/2019	0.276	0.340	0.976	1.97	3.562	0.156	NA
	3/12/2020	0.0137	0.00415	0.0674	0.0692	0.15445	0.0294	NA
	8/13/2021	0.256	0.214	0.877	1.390	2.737	0.105	NA
	11/19/2021	0.306	0.0142	0.813	0.478	1.611	0.168	NA
	2/28/2022	0.0238	<0.01	0.0468	0.0491	0.1197	0.0184	NA
	9/1/2022	0.2520	0.0225	0.630	0.5020	1.4065	0.0968	NA
	12/20/2022	0.1910	0.3360	0.545	1.1400	2.2120	0.0619	NA
	3/15/2023	0.0258	0.00559	0.0462	0.0402	0.11779	0.0156	NA
	6/26/2023	0.268	0.204	0.670	0.980	2.122	0.0839	NA
MW-27 SSTL (300 ft)		0.035	6.98	4.89	69.8	NE	0.14	NE
MW-28	11/18/2008	BDL	BDL	0.0012	0.002	0.0032	0.013	NA
	1/29/2009	0.002	BDL	0.0018	0.0059	0.0097	0.011	NA
	4/27/2009 to	Not Sampled						
	8/2/2012	Not Sampled						
	12/11/2012	BDL	BDL	BDL	BDL	BDL	BDL	NA
	6/13/2013	Not Sampled						
	10/7/2013	Not Sampled						
	2/3/2014	Not Sampled						
	8/12/2014	<0.0005	<0.005	<0.0005	<0.0015	BDL	<0.001	NA
	12/18/2014	Not Sampled						
MW-28 SSTL (440 ft)	to 4/27/2016	Not Sampled						
	9/14/2016	<0.001	<0.005	<0.001	<0.003	BDL	<0.001	NA
	Last Sampled on 9/14/2016							
MW-28 SSTL (440 ft)		0.016	3.28	2.3	32.8	NE	0.066	NE

<p align="center">TABLE 3 GROUNDWATER ANALYTICAL RESULTS CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129</p>								
Well No.	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Total Lead (mg/L)
MW-29	11/18/2008	0.027	BDL	0.03	0.027	0.084	0.052	NA
	1/29/2009	0.0079	BDL	0.003	0.012	0.0229	0.0087	NA
	4/28/2009	0.0048	BDL	BDL	BDL	0.0048	0.0056	NA
	9/9/2009	BDL	BDL	BDL	BDL	BDL	0.024	NA
	1/6/2010	BDL	BDL	BDL	BDL	BDL	0.047	NA
	6/16/2010	BDL	BDL	BDL	BDL	BDL	0.0015	NA
	4/7/2011	BDL	BDL	BDL	BDL	BDL	0.0092	NA
	8/15/2011	BDL	BDL	BDL	BDL	BDL	0.053	NA
	4/19/2012	BDL	BDL	BDL	BDL	BDL	0.065	NA
	8/3/2012	BDL	BDL	BDL	BDL	BDL	0.063	NA
	12/11/2012	Not Sampled						
	6/14/2013	BDL	BDL	BDL	BDL	BDL	0.011	NA
	10/8/2013	0.0017	BDL	0.0024	0.0096	0.0137	0.053	NA
	2/4/2014	BDL	BDL	BDL	BDL	BDL	0.016	NA
	8/12/2014	<0.0005	<0.0005	<0.0005	<0.0015	BDL	0.061	NA
	12/19/2014	0.0015	BDL	0.0035	0.0120	0.017	0.057	NA
	6/5/2015	<0.001	<0.005	<0.001	<0.003	BDL	0.020	NA
	9/30/2015	<0.001	<0.005	<0.001	<0.003	BDL	<0.001	NA
	4/27/2016	<0.001	<0.005	<0.001	<0.003	BDL	0.0139	NA
	9/14/2016	<0.001	<0.005	<0.001	<0.003	BDL	0.0220	NA
	1/17/2017	<0.001	<0.001	<0.001	<0.003	BDL	0.0182	NA
	Last Sampled on 1/17/2017							
MW-29 SSTL (410 ft)		0.019	3.78	2.64	37.8	NE	0.075	NE
MW-30	11/18/2008	BDL	BDL	0.0011	0.0017	0.0028	BDL	NA
	1/28/2009 to 8/2014	Not Sampled						
	8/14/2014	<0.0005	<0.005	<0.0005	<0.0015	BDL	<0.001	NA
	12/18/2014	Not Sampled						
	to 4/27/2016	Not Sampled						
	9/13/2016	<0.001	<0.005	<0.001	<0.003	BDL	<0.001	NA
MW-31	Last Sampled on 9/13/2016							
	11/19/2008	BDL	BDL	0.00057	BDL	0.00057	BDL	NA
	1/28/2009 to 8/2014	Not Sampled						
	8/14/2014	<0.0005	<0.005	<0.0005	<0.0015	BDL	<0.001	NA
	12/18/2014	Not Sampled						
	to 4/27/2016	Not Sampled						
MW-32	9/13/2016	<0.001	<0.005	<0.001	<0.003	BDL	<0.001	NA
	Last Sampled on 9/13/2016							
	11/19/2008	BDL	BDL	BDL	BDL	BDL	BDL	NA
	1/28/2009 to 8/2014	Not Sampled						
	8/13/2014	0.0008	<0.005	<0.0005	<0.0015	0.0008	<0.001	NA
	12/18/2014	Not Sampled						
MW-33	to 4/27/2016	Not Sampled						
	9/13/2016	<0.001	<0.005	<0.001	<0.003	BDL	<0.001	NA
	Last Sampled on 9/13/2016							
	11/18/2008	BDL	BDL	0.00091	BDL	0.00091	BDL	NA
	1/28/2009 to 8/2014	Not Sampled						
	8/14/2014	<0.0005	<0.005	<0.0005	<0.0015	BDL	<0.001	NA
	12/18/2014	Not Sampled						
	to 4/27/2016	Not Sampled						
	9/13/2016	<0.001	<0.005	<0.001	<0.003	BDL	<0.001	NA
	Last Sampled on 9/13/2016							

<p align="center">TABLE 3 GROUNDWATER ANALYTICAL RESULTS CALHOUN COUNTY BUS SHOP JACKSONVILLE, CALHOUN COUNTY, ALABAMA BHATE PROJECT NO.: ADEM000.0798 FACILITY ID NO.: 10812-015-002129</p>								
Well No.	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	MTBE (mg/L)	Total Lead (mg/L)
RW-01	11/17/2008	0.330	0.074	0.025	0.36	0.789	0.84	NA
	1/28/2009	1.300	0.4	0.17	2.5	4.37	3.8	NA
	4/27/2009	1.300	0.25	0.029	2.7	4.279	3.2	NA
	9/9/2009	Not Sampled						
	1/5/2010	Not Sampled						
	6/15/2010	Not Sampled						
	4/7/2011	0.046	BDL	BDL	BDL	0.046	0.73	NA
	8/15/2011	Not Sampled						
	4/19/2012	Not Sampled						
	8/2/2012	0.082	BDL	0.00054	0.039	0.12154	2.3	NA
	12/11/2012	Not Sampled						
	6/13/2013	0.024	BDL	0.0039	0.012	0.0399	0.35	NA
	10/7/2013	Not Sampled						
	2/4/2014	Not Sampled						
	8/12/2014	<0.0005	<0.005	<0.0005	<0.0015	BDL	1.8	NA
	12/18/2014	Not Sampled						
	to 4/27/2016	Not Sampled						
	9/14/2016	0.0118	<0.005	<0.001	0.00562	0.01742	0.703	NA
Last Sampled on 9/14/2016								
RW-01 SSTL (30 ft)		1.040	209	146	175	NE	4.18	NE
MW-34	4/27/2016	<0.001	<0.005	<0.001	<0.003	BDL	0.00182	NA
	9/14/2016	<0.001	<0.005	<0.001	<0.003	BDL	0.00786	NA
	1/17/2017	Not Sampled						
	12/7/2017	0.00165	<0.001	<0.001	<0.003	0.00165	0.0486	NA
	5/2/2018	<0.001	<0.001	0.00255	0.00409	0.00664	0.0379	NA
	8/29/2018	<0.001	<0.001	<0.001	<0.003	BDL	0.0454	NA
	7/18/2019	<0.001	<0.001	<0.001	0.00356	0.00356	0.0247	NA
	12/17/2019	<0.001	0.00322	0.0144	0.0405	0.05812	0.0238	NA
	3/12/2020	<0.0005	<0.001	<0.0005	<0.0015	BDL	0.0783	NA
	8/13/2021	<0.001	<0.001	<0.001	<0.003	BDL	0.0149	NA
	11/19/2021	<0.001	<0.001	<0.001	<0.003	BDL	0.0172	NA
	2/28/2022	<0.001	<0.001	<0.001	<0.003	BDL	0.0638	NA
	9/1/2022	<0.001	<0.001	<0.001	<0.003	BDL	0.0027	NA
	12/20/2022	<0.001	<0.001	<0.001	<0.003	BDL	0.0397	NA
	3/16/2023	<0.0000941	<0.000278	0.000292	0.000525	0.000817	0.000596	NA
	6/26/2023	0.000571	0.00171	0.00194	0.00449	0.008711	0.00147	NA
MW-35	4/27/2016	0.0166	<0.005	0.00184	0.0115	0.02994	0.00962	NA
	9/14/2016	0.00437	<0.005	<0.001	<0.003	0.00437	0.0145	NA
	1/17/2017	0.00418	<0.001	<0.001	<0.003	0.00418	0.277	NA
	12/7/2017	<0.001	<0.001	<0.001	<0.003	BDL	0.016	NA
	5/2/2018	<0.001	<0.001	<0.001	<0.003	BDL	<0.001	NA
	8/29/2018	0.00466	0.00112	<0.001	0.0809	0.08668	0.192	NA
	7/18/2019	0.0149	0.0125	0.0121	0.0317	0.0712	0.0376	NA
	12/17/2019	0.0208	0.0203	0.0618	0.155	0.2579	0.0892	NA
	3/12/2020	<0.0005	<0.001	<0.0005	<0.0015	BDL	0.00658	NA
	8/13/2021	0.00705	0.00504	0.00751	0.0204	0.0400	0.0976	NA
	11/19/2021	0.0298	0.00126	0.0123	0.0436	0.0870	0.135	NA
	2/28/2022	<0.001	<0.001	<0.001	<0.003	BDL	0.0312	NA
	9/1/2022	<0.001	<0.001	<0.001	<0.003	BDL	0.0454	NA
	12/20/2022	<0.001	<0.001	<0.001	<0.003	BDL	0.0461	NA
	3/16/2023	<0.0000941	<0.000278	<0.000137	0.000483	0.000483	0.00178	NA
	6/26/2023	0.25	0.0126	0.178	0.17	0.610600	0.285	NA
MW-36	4/28/2016	0.135	0.0604	0.294	0.736	1.2254	0.790	NA
	9/13/2016	0.485	<0.125	0.0480	0.140	0.6730	2.86	NA
	1/17/2017	0.421	0.0230	0.0799	0.229	0.7529	3.70	NA
	12/6/2017	0.424	0.230	0.284	0.672	1.610	2.47	NA
	5/2/2018	0.161	0.152	0.404	0.627	1.344	0.0908	NA
	8/28/2018	0.061	<0.005	0.0475	0.051	0.160	0.6460	NA
	7/17/2019	0.108	0.00578	0.0206	0.0361	0.17048	1.19	NA
	12/16/2019	0.196	0.0594	0.245	0.545	1.045	1.50	NA
	3/12/2020	<0.0005	<0.001	<0.0005	<0.0015	BDL	0.00137	NA
	8/13/2021	0.0589	<0.001	0.129	0.172	0.3599	0.07130	NA
	11/19/2021	0.0265	<0.0010	<0.0010	<0.0300	0.0265	0.791	NA
	2/28/2022	<0.001	<0.001	<0.001	<0.003	BDL	0.00276	NA
	9/1/2022	0.00464	<0.001	0.00136	<0.003	0.006	0.0119	NA
	12/20/2022	0.0971	0.0518	0.244	0.377	0.7699	0.0400	NA
	3/15/2023	0.000425	0.000372	0.00414	0.00497	0.009907	0.000599	NA
	6/26/2023	0.0333	0.00139	0.0203	0.0122	0.067190	0.082600	NA
Initial Screening Levels		0.005	1	0.7	10		0.020	0.015
<p>Notes: mg/L = Milligrams per liter (parts-per-million) SSTL = Site Specific Target Level established in August 2003 Risk Based Corrective Action report MTBE = Methyl tert-butyl ether, BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes: NA = Not Analyzed BDL = Below Detection Limit NE = Not Established < = concentration less than method detection limit (170 ft) = distance from well to source area Bold values indicate concentrations equal to or above established SSTLs</p>								

MODIFIED CORRECTIVE ACTION PLAN
CALHOUN COUNTY BUS SHOP, JACKSONVILLE, ALABAMA

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APPENDIX A
UIC PERMIT

UIC Class V Individual Permit

version 1.5

(Submission #: HQ1-K3FX-B8YE6, version 1)

Digitally signed by:
AEPACS
Date: 2024.02.27 13:06:16 -06:00
Reason: Copy Of Record
Location: State of Alabama

Details

Submission ID HQ1-K3FX-B8YE6

Form Input

Permittee Information

Permittee

Permittee Name

Calhoun County Board Of Education

Mailing Address

4400 McClelland Boulevard

Anniston, AL 36206

Is the Property Owner the same as the Permittee?

Yes

Per ADEM Admin. Code r. 335-6-8-.09(1)(n), a Responsible Official is defined as CEO, President, any position at a level of Vice President or higher, Owner, Partner, Managing Member (LLC), or ranking elected official. Please provide the contact information for the person meeting this definition.

Do NOT enter information for a person that is/will be a Duly Authorized Representative (DAR). A person that is a Duly Authorized Representative is NOT considered a RESPONSIBLE OFFICIAL.

Responsible Official

Prefix

Mr.

First Name

John

Last Name

Godwin

Title

Chief School Finance Officer

Organization Name

Calhoun County Board of Education

Phone Type

Number

Extension

Business

256-741-7443

Email

jgodwin@ccboe.us

Mailing Address

4400 McClelland Boulevard

Anniston, AL 36206

This application must be signed by the responsible official who represents the permit applicant. Please check the appropriate box indicating the responsible official (only the people listed below may sign this application):

In the case of a municipal, state, federal, or other public agency, either a principal executive officer or ranking elected official

Does the Responsible Official intend to delegate signatory authority to an individual (or to a company position) as a duly authorized representative (DAR) for this site?
No

Facility/Site Information

Facility/Site Name
TRANSPORTATION DEPT - BUS SHOP

Facility/Site Address or Location Description
1608 13th Avenue S., Suite 300
Birmingham, AL 35205

Facility/Site Contact

Prefix
Mr.
First Name Last Name
Emmett Beers
Title
Senior Project manager
Organization Name
Bhate Environmental Associates
Phone Type Number Extension
Mobile 2055152294
Email
ebeers@bhate.com

Facility/Site County
Calhoun

Detailed Directions to the Facility/Site
Whites Gap Road is off Highway 21 just south of downtown Jacksonville, Al

Please refer to the link below for Lat/Long map instruction help:
[Map Instruction Help](#)

Facility/Site Front Gate Latitude and Longitude
33.80068800000001,-85.75645900000001

310 WHITES GAP RD, JACKSONVILLE, AL

Additional Contacts (1 of 1)

Additional Contacts:

Contact Type
NONE PROVIDED

Contact

Prefix

NONE PROVIDED

First Name

NONE PROVIDED

Last Name

NONE PROVIDED

Title

NONE PROVIDED

Organization Name

NONE PROVIDED

Phone Type

Number

Extension

NONE PROVIDED

Email

NONE PROVIDED

Address

[NO STREET ADDRESS SPECIFIED]

[NO CITY SPECIFIED], AL [NO ZIP CODE SPECIFIED]

Application Attachments

Maps

[CCBS Figures.pdf - 02/21/2024 02:46 PM](#)

Comment

NONE PROVIDED

Injection Description

[Inj Process.pdf - 02/21/2024 02:55 PM](#)

Comment

NONE PROVIDED

Number of Injection Wells (each point is considered a separate well):

65

Engineering Plan

[CCBS Modified Corrective Action Plan.pdf - 02/27/2024 12:56 PM](#)

Comment

NONE PROVIDED

Hydrogeological Data

[Hydro.pdf - 02/21/2024 03:27 PM](#)

Comment

NONE PROVIDED

Financial Viability

When required, the financial responsibility requirements in subparagraph (1)(h) of rule 335-6-8-.09 shall be demonstrated. A Permit application for discharge of treated sanitary waste must include a demonstration of compliance with any applicable requirements for financial viability certification.

Is the permit application for the discharge of treated sanitary waste?

No

Additional Information

Additional Information

[SDS - Cool-Ox.pdf - 02/21/2024 03:29 PM](#)

[DTI Treatment Figure - Bhate - Calhoun Bus Stop.pdf - 02/21/2024 03:30 PM](#)

Fees Assessed

The following itemized fees have been assessed based on the information provided in this application.

New Class V Issuance:
4290

Greenfield Site Fee:
1610

Total Amount Due:
5900

Agreements and Signature(s)

SUBMISSION AGREEMENTS

- ☒ I am the owner of the account used to perform the electronic submission and signature.
- ☒ I have the authority to submit the data on behalf of the facility I am representing.
- ☒ I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- ☒ I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signed
By Emmett Beers on 02/27/2024 at 1:02 PM

APPENDIX B
VENDOR COST ESTIMATES



DeepEarth
Technologies, Inc.

Cool-Ox[®]

(708) 396-0100 - tech@cool-ox.com

DTI Field Services Group - Summary Sheet for Cool-Ox[®] Application

Bhate Environmental Associates, Inc.
1608 13th Avenue South
Suite 300
Birmingham, AL 35205
Attention: Emmett A. Beers

Site: Calhoun Bus Stop
310 Whites Gap Road SE
Jacksonville, AL 36265
Phone: 205.918.4025

12/21/2023

DTI Job #: 2799

ebeers@bhate.com

DeepEarth Technologies, Inc., is pleased to submit this proposal for Cool-Ox[®] remediation of subject site:

Contaminants: MTBE, Benzene	Depth to Groundwater (feet bgl):	14
Media Treated: Soil & GW	Vertical Extent (feet bgl):	10 to 25
Area (square feet): 2,250	Proposed Injection Point Spacing (feet):	6
Cubic Yards: 1,250	Reagent Per Cubic Yard (gal):	6
Number of Points: 63	Est. On-Site Days to Complete:	5
Estimated Total Gals: 7,500		
Gals Per Point: 120		
Lump Sum Price: \$ 108,638		

Conditions of Quote:

1) All quotes shall remain in effect for a period of sixty (60) days only. Expired quotes must be renegotiated.

2) The Client shall:

- a) Arrange for a suitable water source at the site.
- b) Arrange for the locating and marking of all underground utilities and structures including GPR. DTI shall not be liable for any damage to such utilities or structures not clearly identified and revealed to DTI.
- c) Secure all permits necessary for the legal commencement of work and right of entry to the site.
- d) If necessary, arrange for coring of paved surfaces prior to the commencement of work.
- e) Pay DTI for all work completed within 30 days of receipt of DTI invoice. For projects in excess of \$200,000 a minimum deposit in the amount of 1/3 of the quoted price will be required prior to the commencement of work to cover a portion of the materials and mobilization costs.
If payment is not received within 30 days of receipt of DTI invoice, a late payment fee of 1.5% per month will be charged.
- f) Notify DTI if any additional on site health and safety training classes are required 30 days prior to job start.
- g) Provide copies of all analytical data derived from samples collected prior to (to establish baseline data), during, and for three years after the completion of the remedial application. This data shall be considered confidential and used to evaluate and improve the Cool-Ox[®] technology.

3) Assumptions:

- a) No work shall be conducted in inclement weather such as lightning storms, freezing conditions, excessive rain or snow. The Stand-by daily rate, if applicable, shall be that rate stated in the work order.
- b) All quotes are based upon an eight (8) hour work day.
- c) In offering this quote, DTI does not warrant or imply that the site shall be remediated to closure standards by a single application of the Cool-Ox[®] technology.
- d) The Estimated Total Gallons states the maximum amount that could be applied at the above mentioned site. If the amount of reagent applied is less than the Estimated Total Gallons, a discount in the Lump Sum Price will not be provided.

4) Site Specific Provisions:

- a) This estimate includes all costs for material, labor and equipment for DPT injections.
Changes to the scope may be made in the field by DTI to account for unknowns or changes in the site conditions.
- b) If a larger treatment area or additional reagent is required to adequately treat the site, a change order shall be executed by the client prior to the initiation of additional work.

5) Ownership of Documents, Patents, and Copyrights:

Client understands and agrees that the primary reason Client is contracting with DTI is to secure the services and knowledge of DTI to provide Client with in-situ or ex-situ remediation of contaminants employing technology and application methods developed and provided by DTI. Client further understands and agrees that in the broadest definition of the term, the "craft" of DTI is providing, developing and improving the technology for the exclusive commercial or other use of DTI and that all intellectual property developed in the performance of any and all Work performed by DTI for Client or its clients, including, without limitation, all drawings, specifications, reports, summaries, samples, photographs, memoranda, notes, calculations, and other documents collected or prepared by DTI, shall be deemed the exclusive property of DTI.

We at DTI wish to thank you for your consideration of our company as your in-situ chemical oxidation and reduction remedial contractor. If you have any questions regarding the technology or the information contained in this proposal, please contact us immediately. If you are in agreement with the proposal and wish to proceed with the project by reserving a work schedule date, please sign below and return this form to us.

Sincerely,

William L. Lundy, Sr. V. P.

DeepEarth Technologies, Inc.

Accepted:

Name and Title: _____

Order Number: _____ Date: _____



Typical Footprint Onsite

Equipment:

- **1-Deep-Shot[™] Formulation & Injection Rig**
 - The *Deep-Shot[™]* Rig is a self-contained diesel-powered unit containing a 750-gallon insulated make-up water tank, two 200-gallon conical blending tanks, a centrifugal transfer pump, one 3-cylinder high-pressure injection pump, pressure gauges, volume meters and emergency shut-off devices. All *Cool-Ox[®]* reagent is blended to the extent that injected material delivered from the *Deep-Shot[™]* Rig is subsequently non-hazardous. The *Deep-Shot[™]* Rig is a self-contained unit with an onboard generator. All power units are equipped with GFCI protected outlets.
- **1-28-foot Secure Chemical Storage Truck**
 - Chemicals are listed in the *Cool-Ox[®]* SDS
 - Materials are delivered to site or a location near site in one shipment
 - Chemicals are packaged in original containers such as drums, bags, pallets, etc.
 - Materials are transferred via lift gate onto the Chemical Storage Truck
 - Chemicals are weighed and measured into drum on a chemical containment pad to be added to the *Deep-Shot[™]* Rig and mixed with water
 - The *Deep-Shot[™]* Rig is located next to Chemical Storage truck for direct transfer of chemicals into mixing tanks (see following photos)
- **2-One-ton Field Service Trucks**
- **1-Track mounted AMS 9500 DPT PowerProbe[®]**
- **1-32 Foot H/D Flat Bed Transport Trailer**





Safety Data Sheet

1. Chemical Product and Supplier Identification

Product Name:	Cool-Ox®	Cool-Ox® is a registered trademark of DeepEarth Technologies, Inc., all rights reserved.
Chemical Name:	Oxidizer	
Chemical Family:	Peroxygens	
Trade Names:	Cool-Ox®	
Formulator:	DeepEarth Technologies, Inc. 8201 W. 183rd St., Suite C Tinley Park, IL 60487	Toll free: 1-877-Cool-Ox-1 Emergency: 1-312-909-3667 1-800-695-4398
SDS Number:	PB-01	
Issue Date:	January 2020	
Patented Product:	Formulation and use of this product is protected under:	
	USPTO Patent # 6,843,618	USPTO Patent # 8,231,305
	USPTO Patent # 9,475,106	USPTO Patent # 9,616,473
	USPTO Patent # 10,040,105	USPTO Patent # 10,369,604
	CAN Patent # 2684856	CAN Patent # 2776666
	AUS Patent # 20122253381	AUS Patent # 20155271845
	EP Patent # 2707154	EP Patent # 3192591

2. Composition/Information on Ingredients

Components: (as blended)	Compound	CAS Number
	Calcium Peroxide	1305-79-9
	EDTA	60-00-4
	DTPA	67-43-6
	EDDHA	1170-02-1

3. Hazards Identification

Emergency Overview:	Oxidizer - Contact with combustibles may under extreme circumstances, cause fire. In fire, material decomposes, releasing oxygen that may intensify the fire.
Potential Health Effects:	Irritating to the mucous membrane and eyes. If product contacts eyes and face, treat eyes first. Submerge contaminated clothing in water prior to drying. Do not dry near open flame or heat source.
Inhalation:	At high concentrations, slight nose and throat irritation with cough. In case of repeated or prolonged exposure, there is a risk of sore throat and nose bleeds.
Eye contact:	Severe eye irritation with watering and redness. Risk of serious or permanent eye lesions.
Skin contact:	In case of prolonged contact; irritation.
Ingestion:	Irritation of the mouth and throat with nausea and vomiting.

4. First-Aid Measures

Inhalation:	Remove the subject from dusty environment. Consult with a physician in case of respiratory symptoms.
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Eye contact:	Flush eyes with running water for 15 minutes, while keeping the eyelids wide open. Consult with ophthalmologist in all cases.
Skin contact:	Wash the affected skin with running water. Remove and clean clothing. Consult with a physician in case of persistent pain or redness.
Ingestion:	If the victim is conscious, rinse mouth and administer fresh water. DO NOT induce vomiting. Consult a physician in all cases.
5. Fire-Fighting Measures	
Flash point:	Not applicable
Flammability:	Not applicable
Auto-flammability:	Not applicable
Danger of explosion:	Non-explosive
Common extinguishing methods:	Large quantities of water, water spray. In case of fire in close proximity, all means of extinguishing are acceptable.
Inappropriate extinguishing methods:	No restriction.
Special precautions:	Evacuate all non-essential personnel. Intervention only by capable personnel who are trained and aware of the hazards of the product. If safe to do so, remove unaffected product to a safe area.
Specific hazards:	Oxidizing substance. Oxygen released on exothermic decomposition may support combustion in case of surrounding fire. Pressure burst may occur due to decomposition in confined spaces/containers. Contact with flammables may cause fire or explosion.
Firefighting instructions:	Personnel should wear full bunker gear and positive-pressure, self-contained breathing apparatus. Apply cooling water to sides of transport or storage vessels that are exposed to flames until fire is out. Do not approach hot vessels containing product.
6. Accidental Release Measures	
Precautions:	Observe the protection measures given in Sections 5 and 8. Avoid materials and products which are incompatible with the product (see Section 10). Avoid direct contact of the product with water. Immediately notify the appropriate authorities in case of reportable discharge.
Cleanup methods:	Collect the product with a means suitable to avoid dust formation. All the receiving equipment should be clean, vented, dry, labeled and made of material that is compatible with the product. Because of the contamination risk, the collected material should be isolated in a safe place. Clean the area with large quantities of water. For disposal methods, refer to Section 13.

7. Handling and Storage

Handling:	Clean and dry process piping and equipment before any operation. Never return unused product to storage container. Keep away from incompatible products. Containers and equipment used to handle this product should be used exclusively for this material. Avoid any contact with water or humidity.
Storage:	Store in a dry area, protected from heat sources and direct sunlight.
Other precautions:	Warn personnel about the dangers of the product.

8. Exposure Controls/Personal Protection

Engineering controls:	Provide ventilation in work areas to keep dust below the following applicable limits:
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ACGIH™ TLV™ (1996)
5 mg/m³ TWA

OSHA PEL
Total dust - 15 mg/m³ TWA
Respirable fraction - 5 mg/m³ TWA

NIOSH REL (1994)
5 mg/m³ TWA

ACGIH™ and TLV™ are registered trademarks of the American Conference of Governmental Industrial Hygienists.

Eye/face protection:	Dust proof chemical goggles.
Hand protection:	Impervious protective gloves made of nitrile, natural rubber, or neoprene.
Skin protection:	For brief contact, few precautions other than clean body-covering, clothing should be needed. When prolonged or frequently repeated contact could occur, use protective, full body clothing impervious to this material.
Respiratory protection:	For many conditions, no respiratory protection may be needed; however, in dusty or unknown atmospheres use a NIOSH approved dust respirator.
Other precautions:	Safety shower and eyewash stations. Consult your industrial hygienist or safety manager for the selection of personal protective equipment suitable for the working conditions.

9. Physical and Chemical Properties

Appearance:	White to pale amber powder
Odor:	Odorless
pH:	7 - 9 (saturated solution)
Melting Point:	527 °F (275 °C) - Decomposes
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Boiling point:	Not applicable
Bulk Density:	0.5 - 0.65 g/mL (Loose Method)
Solubility in Water:	Moderate

10. Stability and Reactivity

Chemical Stability:	Stable under certain conditions (see below).
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Conditions to avoid:	Heat and moisture
Materials to avoid:	Water, Acids, Bases, Salts of heavy metals, Reducing agents, Organic materials, Flammable substances
Hazardous decomposition products:	Oxygen, hydrogen peroxide, steam and heat.
Hazardous polymerization:	Does not occur.
11. Toxicological Information	
Acute toxicity:	Oral route, LD ₅₀ , rat, 7340 mg/kg
Chronic toxicity:	No data
Irritation:	Rabbit (eyes), severe irritant
Sensitization:	No data
Target Organ Effects:	Eyes and respiratory passages.
12. Ecological Information	
Acute ecotoxicity:	Fish, Cyprinus carpio, 48 hours, LC ₅₀ , 25.6 mg/L
Chronic ecotoxicity:	No data
Mobility:	Low solubility and mobility.
Abiotic degradation:	Air - Not applicable Water - Slow hydrolysis Water/Soil - Complexation/precipitation Carbonates/phosphates present at environmental concentrations. Degradation products: carbonates/phosphates sparingly soluble.
Biotic degradation:	Not applicable
Potential for bioaccumulation:	Not applicable
Comments:	Observed effects are related to alkaline properties of the product. Hazard to the environment is limited due to the product properties a) No bioaccumulation. b) Weak solubility and precipitation as carbonate or phosphate in aquatic environment. c) rapid neutralization at environmental pH.
13. Disposal Considerations	
Waste Disposal Method:	Consult current federal, state and local regulations regarding the proper disposal of this material and its emptied containers.
14. Transport Information	
D.O.T. Proper Shipping Name:	Oxidizing substances, solid, n.o.s.
UN Number:	UN 1479
Hazard Class:	5.1
Label(s):	5.1 (Oxidizer)
Packing Group:	III
STCC Number:	4918717
Emergency Response Guide #: 140	

15. Regulatory Information

TSCA Inventory List: Not Listed

CERCLA Hazardous Substance (40 CFR Part 302)

Listed substance: No

Unlisted substance: Yes

Reportable Quantity (RQ): Not Listed

Characteristic(s): Ignitability

RCRA Waste Number: D001

Sara, Title III, Sections 302/303 (40 CFR Part 355- Emergency Planning and Notification)

Hazard category: Eye and skin irritant

Threshold planning quantity: Not Listed

Sara, Title III, Sections 311/312 (40 CFR Part 370- Hazardous Chemical Reporting: Community Right-To-Know)

Extremely hazardous substance: No

WHMIS Classification: C Oxidizing Material

Material Causing Other Toxic Effects - Eye and skin irritant

Canadian Domestic Substances List: Listed, DSL/NDSL Record number - 3929

*This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.***16. Other Information****HMIS™ Rating:**

Health - 2

Flammability - 0

Reactivity - 1

PPE - Required

HMIS™ is a registered trademark of the National Paint and Coating Association.

NFPA™ Rating:

Health - 2

Flammability - 0

Reactivity - 1

OX

NFPA™ is a registered trademark of the National Fire Protection Association.

Disclaimer

The information contained in this document is believed to be true and correct. However, the formulator makes no warranty, either expressed or implied, as to its authenticity, accuracy or to the use of this product and this document is subject to change or revision without prior notice.



February 6, 2024

Emmett Beers
Bhate
1608 13th Avenue South, Suite 300
Birmingham, AL 35205
(205) 515-2294
ebeers@bhate.com

Subject: Proposal/Design for Injection Services
Calhoun Bus Shop – Jacksonville, AL

Geo Lab is pleased to offer this in-situ injection proposal to Bhate for your injection service needs at the Calhoun Bus Shop site located in Jacksonville, AL. We estimate that we can safely complete the entire scope of work and achieve your critical distribution requirements within 8 field days.

Mobilization Flexibility: Geo Lab's remediation program typically requires 3-6 weeks advance notice for mobilization. This allows us to efficiently organize resources, ensuring a seamless transition from planning to execution.

We appreciate your consideration of our proposal and the opportunity to collaborate with Bhate on this important project. If you have any questions or require further information, please do not hesitate to reach out to me directly at (706) 610-4987. Thank you for considering Geo Lab as your trusted partner for in-situ injection services.

The pricing provided in this proposal is valid for 120 days from the date of submission.

Sincerely,

Brendan Gerber
Director – Remediation Services
Geo Lab Drilling
bgerber@geolabdrilling.com

ISCO Design (Provect-OX2)

Technology Selection: Provect-OX2 is an in situ chemical oxidation (ISCO) + enhanced bioremediation technology that combines potassium persulfate with ferric iron that can address a wide variety of organic compounds present in impacted soil, sediment and groundwater, including chlorinated solvents, petroleum hydrocarbons, and pesticides. Provect-OX2 uniquely provides long-term, sustained secondary enhanced bioremediation to manage residuals and prevent contaminant rebound, which is a common problem encountered with conventional ISCO technologies. This is accomplished via the utilization of residual iron and sulfate (generated from decomposition of persulfate) as terminal electron acceptors for facultative reductive processes. This technique maximizes the synergy between persulfate and iron for coupled oxidation and enhanced bioremediation.

Table 1: Provect-OX2 Mass Requirements

Contaminant	Average conc. in GW (mg/L)	Remediation goal in GW (mg/L)	Average conc. in soil (mg/kg)	Remediation goal in soil (mg/kg)
Benzene	6.8	1.3	6.7	3.18
Treatment Area	1,920 ft ²			
Treatment Depth (from 14 to 30 ft bgs)	16 ft			
Treatment Volume	30,720 ft ³			
Assumed Soil Density	1.71 lb/ft ³			
Assumed Porosity	36%			
Volume of Groundwater to Treat	11,088 ft ³			
Mass of Soil to Treat	1,092 tons			
TOTAL PROVECT-OX2 REQUIRED	20,000 lb			

Table 2: Application Design via Direct Push Injection / Preparation of Provect-OX2 Slurry

Concentration of Provect-OX2 Slurry	21% Solids
Volume of Water Required	9,000 USG
Total Volume of Solution to Inject	10,000 USG
Injection Point Spacing	10 ft on center
Number of Injection Points Required	25
Approx. Mass of Provect-OX2 per Point	800 lb (16x, 50 lb bags)
Estimated Mass per vertical ft Aquifer	50 lb
Approx. Volume of slurry per Point	400 USG
Anticipated Average Flow Rate	3.5 GPM
Estimated Days to Complete	8 Days

Scope of Work

Injection Services: Geo Lab will prepare, batch, mix, and inject approximately 10,000 gallons of a 21% by weight Provect-OX2 slurry into 25 direct push injection points. Geo Lab will utilize a high-performance chemical injection system to facilitate the injections. Bhate will provide a Geoprobe rig on operator for injection point installation.

A bottom-up injection approach will be implemented at each DPT location using injection tooling designed for horizontal distribution of reagents throughout the targeted treatment intervals. A custom manifold system equipped with flow and pressure monitoring/relief devices will be used to ensure safe and accurate mixing, and controlled injection of the reagents to maximize distribution within the treatment zones. Injection locations will be abandoned immediately upon completion to prevent short circuiting at subsequent injection borings.

Spill Response Equipment: In the event of a spill or surfaced material, Geo Lab will have readily available wet/dry vacuums, absorbent pads and socks, and granular absorbent material. Material collected from a spill or surfaced reagent will be placed in 55-gallon drums and staged on-site. Spill response equipment will be maintained by Geo Lab throughout the duration of the project.

Water: Bhate will be responsible for providing access to a local water source for reagent dilution.

Forklift: Geo Lab will provide a forklift to manage materials onsite.

Storage: Chemicals will be stored on site at the direction of Bhate.

Project Management: Project will be overseen by a Geo Lab project manager who will assist with pre-project planning, monitoring daily performance, health & safety observations, reporting, and addressing project concerns.

Project Reporting: Geo Lab will provide electronic updates to the project team, including hours worked, injection volumes, flow rates/pressures, field notes, and reagents injected. A final injection report will be provided to Bhate after the completion of the project.

Cost Summary

Remediation Services				
Item	Qty	Units	Unit Cost	Subtotal
Mobilization/Demobilization	1	Lump Sum	\$2,250	\$2,250
Injection Services: Includes a Custom injection system, all equipment/tooling, per diem, consumables, & crew.	8	Day	\$3,650	\$29,200
Forklift	2	Week	\$1,950	\$3,900
Project Reporting	1	Lump Sum	\$400	\$400
55-Gallon Drums (if needed)	0	Each	\$72	-
Provect-OX2 (ISCO Reagent)	20,000	Lb	\$4.20	\$84,000
Reagent Shipping	1	Lump Sum	\$3,600	\$3,600
Estimated Total Cost				\$123,350

Cost Summary Notes

1. Payment Terms: PWP or Net 90, whichever occurs first.
2. Estimated project duration is based on the information provided by Bhate and the design specifications outlined under 'Scope of Work' and 'Project Understanding'.
3. Project will be overseen by a Geo Lab project manager who will assist with pre-project planning, monitoring daily performance, health & safety observations, reporting, and addressing project concerns.
4. Assumes 10-hr workdays on-site, daylight hours only, whichever is less.
5. Any residual IDW (including any surplus reagents) will be disposed of by Bhate. Geo Lab will containerize all liquid wastes (surfaced substrate and groundwater, decon water, unused reagent solutions etc.) and stage them near the work area at a location identified by Bhate.
6. Bhate will provide access to water supply. The estimated production rates, project duration, and associated injection costs are subject to the availability of water supply. Insufficient water supply may affect injection schedule and costs. Geo Lab will notify Bhate immediately of potential water supply concerns.
7. Bhate will be responsible for work plan approval, injection permits and utility clearance.
8. It is assumed that there is easy access to injection locations with our injection rigs and drilling equipment, unless otherwise noted in this estimate.
9. It is assumed that Geo Lab can store our equipment and materials on-site.

Advanced In-Situ Remediation Services

Geo Lab Drilling is the leading provider of advanced in-situ remediation services throughout the Southeastern United States. Our success stems from highly experienced field technicians and unsurpassed injection expertise. We treat every project with the utmost importance, from the project planning stages to field implementation, and everything in-between.



Our professionally-built remediation systems are fully self-contained and have integrated operator work stations, safety equipment, mixers, pumps, water storage, power, pneumatic controls, pressure regulators, and flow and pressure monitoring equipment. These highly advanced systems provide mixing, pumping and delivery of a wide range of reagents at various flow rates and pressures.



The use of our specially designed injection equipment and tooling, coupled with our field expertise, allows Geo Lab to provide a cleaner and more precise injection process for successful delivery of a variety of reagents within a wide range of lithologies.



Attachment 1

Site Map



MW-10

Target Treatment Area (1,920 ft²)
-25 Injection Locations
-14-30' Treatment Interval
-400 Gallons per Location
-5' ROI

MW-13

OIP-10

OIP-12

OIP-11

OIP-13

OIP-9

MW-7

OIP-3

MW-8

OIP-4

OIP-21

MW-3R

OIP-16

MW-3

OIP-1

MW-2

OIP-14

MW-2R

OIP-8

OIP-2

OIP-19

Approximate Area of Free Product
Indicated by Fluorescence

Dispensers

OIP-6

MW-4

OIP-20

OIP-5

Form
8,000-Gal
10,000-Gallon UST
(Gasoline)

Form
8,000-Gal
10,000-Gallon UST
(Gasoline)

Attachment 2

Technical Data Sheet

Provect-OX2™

Self-Activating, Extended Release ISCO + Enhanced Bioremediation Reagent

TECHNOLOGY DESCRIPTION

Provect-OX2™ is an *in situ* chemical oxidation (ISCO) + enhanced bioremediation reagent that integrates an extended release source of potassium persulfate into the modern Provect-OX® formula. Ferric iron (Fe III) activation is used as a safe and effective means of activating the potassium and sodium persulfates (US Patent No. 9,126,245; patents pending). Similar to our original Provect-OX® technology, Provect-OX2™ oxidizes a wide variety of organic compounds present in impacted soil, sediment and groundwater, including chlorinated solvents, petroleum hydrocarbons, and pesticides. However, Provect-OX2™ ensures extended release of oxidant throughout the treatment media. The ferric oxide iron, along with the residual sulfate, will provide enhanced bioremediation components following the chemical oxidation processes. Provect-OX2™ will also include Terr-OR™ ferrate stabilizer and pH buffer to offset the sulfuric acid produced during breakdown of the persulfates.

Provect-OX® and Provect-OX2™ are the only ISCO technologies designed to actively manage rebound. The advanced activation catalyst is further unique considering its ability to enhance bioremediation processes. This is accomplished via the subsequent utilization of sulfate and iron as terminal electron acceptors for facultative reductive processes. Degradation intermediates generated during pollutant oxidation may act as electron shuttles, allowing the reduction of Fe(III) to Fe(II) in the redox cycling of iron and continued activation of persulfate. This combined remedy provides supplemental treatment mechanisms thereby allowing for more cost-efficient dosing of the product.

Like all Provectus products, Provect-OX2™ was developed by experienced practitioners who understand real-world field applications. For example, the oxidants (potassium and sodium persulfate) and its activator (ferric oxide) are conveniently packaged in a single, pre-mixed bag for ease of use and safe handling. Moreover, due to its safe and non-extreme activation chemistry, Provect-OX2™ will not generate excessive heat / off-gases, nor will it mobilize heavy metals or lead to the generation of secondary impact issues, such as elevated arsenic, chromium, or pH.

TRADITIONAL ACTIVATION CHEMISTRIES

Heretofore, sodium persulfate has been activated via heat, chelated metals, hydrogen peroxide, ZVI/surface catalysis, and/or pH extremes in order to generate sulfate radicals, hydroxyl radicals, etc. (Tsitonaki *et al.*, 2010). Not only do these systems require the addition of other products or energy, they tend to disregard the many biologically mediated processes possible as a consequence of the decomposition products of persulfate.

Divalent metal activation: The utilization of ferrous iron, usually as a chelated cation consumes the oxidant (persulfate) in a conversion of the ferrous iron to ferric iron. Additionally, the presence of the chelator



inhibits biological utilization of the generated ferric species as a biological terminal electron acceptor and consumes oxidant. Over dosing of the chelated ferrous iron further consumes the oxidant.

Caustic Activation: The utilization of caustic (high pH) activation of persulfate presents inherent health and safety issues while creating an unsuitably high pH environment for biological attenuation. Further, within this activation mechanism is a self-limiting biological attenuation process once the pH returns to suitable levels. The sulfate, when used as a biological terminal electron acceptor, transitions to sulfite and finally sulfide. This final product forms hydrogen sulfide which inhibits further biological activity.

Heat Activation: The utilization of heat as an activation mechanism is generally difficult to implement, and it incurs high implementation costs while not addressing the hydrogen sulfide issue.

Hydrogen Peroxide Activation: The use of peroxide as an activating mechanism again does not address the hydrogen sulfide generation problem while having limited efficacy on many targeted compounds.

MODE OF ACTION

ISCO: Under the Provectus approach, potassium and sodium persulfate are activated by Fe III (pre-mixed formulation) which requires a lower activation energy than alternative mechanisms while not consuming the persulfate oxidant. The mechanism is believed to elevate the oxidation state of the iron transiently to a supercharged iron ion which in itself may act as an oxidant. As this supercharged iron cation is consumed, the resulting ferric species can act as a terminal electron acceptor for biological attenuation. Coincidentally, the generated sulfate ion from the decomposition of the persulfate provides a terminal electron acceptor for sulfate reducers which may further remediate the targeted compounds in the groundwater and soils. The reactions that occur in the chemical oxidation include persulfate radicals and ferrate, as summarized below (Equation 1):



Provect-OX2 Oxidation Potentials


Oxidation Potentials	Volts	
Fluorine (F ₂)	2.87	
Hydroxyl radical (OH•)	2.80	
Sulfate radical (SO ₄ •)	2.60	Generates Sulfate Radical
Ferrate (Fe ⁺⁶)	2.20	Generates Ferrate
Ozone (O ₃)	2.08	Treats wide range of contaminants
Persulfate (S ₂ O ₈ ⁻²)	2.01	Extended in situ lifetime
Hydrogen peroxide (H ₂ O ₂)	1.78	Avoids rebound
Permanganate (MnO ₄ ⁻)	1.68	
Chlorine (Cl ₂)	1.49	

stronger oxidizer ↑

Higher oxidation potential = stronger the oxidizer

Provect-OX2

Generates Sulfate Radical
Generates Ferrate
Treats wide range of contaminants
Extended in situ lifetime
Avoids rebound



SECONDARY ATTENUATION PROCESS (Biologically Mediated):

1) Sulfate Residual

After dissolved oxygen has been depleted in the treatment area, sulfate (a by-product of the persulfate oxidation) may be used as an electron acceptor for anaerobic biodegradation by indigenous microbes. This process is termed sulfidogenesis and results in the production of sulfide. Stoichiometrically, each 1.0 mg/L of sulfate consumed by microbes results in the destruction of approximately 0.21 mg/L of BTEX compounds. Sulfate can play an important role in bioremediation of petroleum products, acting as an electron acceptor in co-metabolic processes as well. For example, the basic reactions for the mineralization of benzene and toluene under sulfate reducing conditions are presented in equations 2 and 3:



2) Ferric Iron:

Ferric iron is also used as an electron acceptor during anaerobic biodegradation of many contaminants, sometimes in conjunction with sulfate. During this process, ferric iron is reduced to ferrous iron, which is soluble in water. Hence, ferrous iron may be used as an indicator of anaerobic activity. As an example, Stoichiometrically, the degradation of 1 mg/L of BTEX results in the average consumption of approximately 22 mg/L of ferric iron (or “production” of ferrous iron) as shown below (equations 4-6).



3) Pyrite Formation:

While ferrous iron is formed as a result of the use of the ferric species as a terminal electron acceptor, residual sulfate is utilized as a terminal electron acceptor by facultative organisms thereby generating sulfide under these same conditions. Together, the ferrous iron and the sulfide promote the formation of pyrite as a remedial byproduct (equation 7). This reaction combats the toxic effects of sulfide and hydrogen sulfide accumulation on the facultative bacteria, while also providing a means of removing targeted organic and inorganic COIs via precipitation reactions. Moreover, pyrite possesses a high number of reactive sites that are directly proportional to both its reductive capacity and the rate of decay for the target organics.



PRIMARY FEATURES:

The combination of potassium and sodium persulfates provide a short and long-term oxidant release that will be effective for many different treatment matrices. The combined persulfates and activation methodology maximizes the synergy between coupled oxidation and enhanced bioremediation: i) sulfate is

generated from persulfate, i) ferric iron (Fe III) is microbiologically reduced to ferrous iron (Fe II) readily supplying electrons to exchange and react with sulfide. Together, sulfide and iron form pyrite, an iron bearing soil mineral with a favorable reductive capacity.

- ◆ [Extended Longevity](#): ISCO reactions remain active for an estimated 1 to 4 months (versus < 2 weeks for standard persulfate -based oxidants); secondary enhanced bioremediation processes remain active for many years
- ◆ [Effective](#): Promotes multiple oxidation pathways of a wide-range of organic contaminants for an extended time compared to traditional persulfate options. Also provides a unique microbiological component for multiple accelerated attenuation processes.
- ◆ [Efficient](#): Significantly lower costs as a result of sub-stoichiometric dosing requirements.
- ◆ [Safe](#): Fewer health and safety concerns as compared with use of traditional activation methods such as heat, chelated metals, hydrogen peroxide or pH extremes. Contains built-in activation, which eliminates the need for additional and potentially hazardous chemicals required to achieve traditional persulfate activation.
- ◆ [Ease of Use](#): Single component product with integrated activator results in simplified logistics and application. No additional containers or multi-step mixing ratios required prior to application. Fewer material compatibility issues.
- ◆ [Improved Performance](#): Combined remedy prevents “rebound” which is often seen in other oxidation processes. Maximizes the inherent geochemistry of a “post-oxidation” environment for biologically based attenuation.
- ◆ [Eliminates Secondary Groundwater Issues](#): Includes Terr-OR™ ferrate stabilizer and pH buffer to offset the sulfuric acid produced during breakdown of the persulfates and limit the mobilization of pH sensitive heavy metals (e.g., arsenic).
- ◆ [Patented Technology](#): US Patent No. 9,126,245 (international filings in EU, Australia, Brazil, Canada, China, Colombia, Japan and Mexico) and others pending allow us to freely market this advanced persulfate-based ISCO technology globally, using our choice of suppliers.
- ◆ [Manufactured Globally: USA, Italy, Taiwan](#)

LITERATURE CITED:

Rodriguez S, L. Vasquez, D. Costa D, A. Romero and A. Santos. 2014. Oxidation of Orange G by Persulfate activated by Fe(II), Fe(III) and zero valent iron (ZVI). Chemosphere 101:86-92.

Scalzi, M. and A. Karachalios. 2013. Chemical Oxidation and Biological Attenuation Process for the Treatment of Contaminated Media. US PTO 9,126,245.

Tsitonaki, A., B. Petri, M. Crimi, H. Mosbaek, R. Siegrist and P. Berg. 2010. *In Situ* Chemical Oxidation of Contaminated Soil and Groundwater using Persulfate: A Review. Critical Rev. Environ. Sci and Technol. 40: 55-91.

Safety Data Sheet (SDS)

OSHA HazCom 2012 Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Printing date 07/02/2018

Revised on 6/15/2018

* 1 Identification

• **Product identifier**

• **Trade name:** *Buffered Provect-OX2™ Self Activating ISCO Enhanced Bioremediation Reagent*

• **Application of the substance / the mixture**

In situ and *ex situ* chemical oxidation of contaminants and compounds of concern for environmental remediation applications.

• **Details of the supplier of the safety data sheet**

• **Manufacturer/Supplier:**

Provectus Environmental Products
2871 W. Forest Road
Suite 2
Freeport, IL 61032
Phone: 815-650-2230
Fax: 815-650-2232
www.provectusenvironmental.com

• **Emergency telephone number:** (815) 650-2230

2 Hazard(s) identification

• **Classification of the substance or mixture**



Flame over circle

May intensify fire; oxidizer.



Health hazard

May cause allergy or asthma symptoms or breathing difficulties if inhaled.



Harmful if swallowed.

Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

• **Label elements**

• **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

• **Hazard pictograms**



GHS03



GHS07



GHS08

(Contd. on page 2)

Safety Data Sheet (SDS)

OSHA HazCom 2012 Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Printing date 07/02/2018

Revised on 6/15/2018

Trade name: Buffered Provect-OX2™ Self Activating ISCO Enhanced Bioremediation Reagent

(Contd. of page 1)

· **Signal word** Danger

· **Hazard-determining components of labeling:**

disodium peroxodisulphate; sodium persulfate

· **Hazard statements**

May intensify fire; oxidizer.

Harmful if swallowed or if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause respiratory irritation.

· **Precautionary statements**

Take any precaution to avoid mixing with combustibles.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

In case of inadequate ventilation wear respiratory protection.

Keep/Store away from clothing/combustible materials.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

Take off contaminated clothing and wash before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Wash contaminated clothing before reuse.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

If skin irritation occurs: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Rinse mouth.

In case of fire: Use for extinction: CO2, powder or water spray.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

IF ON SKIN: Wash with plenty of water.

Call a POISON CENTER/doctor if you feel unwell.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 2

The substance possesses oxidizing properties.

(Contd. on page 3)

Safety Data Sheet (SDS)

OSHA HazCom 2012 Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Printing date 07/02/2018

Revised on 6/15/2018

Trade name: Buffered Provect-OX2™ Self Activating ISCO Enhanced Bioremediation Reagent

(Contd. of page 2)

· **HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = *2
FIRE	3	Fire = 3
REACTIVITY	2	Reactivity = 2

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

7727-21-1	Potassium peroxodisulfate; potassium persulfate	50-70%
	⚠ Ox. Sol. 2, H272; ⚠ Resp. Sens. 1, H334; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2B, H319; Skin Sens. 1, H317; STOT SE 3, H335	
7775-27-1	Disodium peroxodisulphate; sodium persulfate	20-30%
	⚠ Ox. Sol. 2, H272; ⚠ Resp. Sens. 1, H334; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2B, H319; Skin Sens. 1, H317; STOT SE 3, H335	
1309-37-1	Ferric oxide	1-20%
n.a.	Terr-OR™ buffer and ferrate stabilizer (see associated SDS)	0-5%

4 First-aid measures

· **Description of first aid measures**

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness, place patient securely on side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** Immediately call a doctor.

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Special hazards arising from the substance or mixture** No further relevant information available.

· **Advice for firefighters**

· **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

(Contd. on page 4)

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(Contd. of page 3)

7 Handling and storage

- **Precautions for safe handling**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
- **Information about protection against explosions and fires:** Protect from heat.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**

· **Components with occupational exposure limits:**

7727-21-1 Potassium peroxodisulfate

TLV Long-term value: 0.1 mg/m³
as Persulfates

7775-27-1 Disodium peroxodisulphate

TLV Long-term value: 0.1 mg/m³
as Persulfates

1309-37-1 Ferric oxide

PEL Long-term value: 10 mg/m³
Fume

REL Long-term value: 5 mg/m³
Dust & fume, as Fe

TLV Long-term value: 5* mg/m³
*as respirable fraction

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Select glove material based on penetration times, rates of diffusion and degradation.

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Safety Data Sheet (SDS)

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· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

* 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Powder

Color: Red

· **Odor:** Odorless

· **Odor threshold:** Not determined.

· **pH-value @ 20 °C (68 °F):** 6

· **Change in condition**

Melting point/Melting range: Not determined.

Boiling point/Boiling range: Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Contact with combustible material may cause fire.

· **Ignition temperature:**

Decomposition temperature: Not determined.

· **Auto igniting:** Product is not self-igniting.

· **Danger of explosion:** Not determined.

· **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

· **Vapor pressure:** Not applicable.

· **Density:** Not determined.

· **Relative density** Not determined.

· **Vapour density** Not applicable.

· **Evaporation rate** Not applicable.

· **Solubility in / Miscibility with**

Water: Soluble.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

Dynamic: Not applicable.

Kinematic: Not applicable.

· **Solvent content:**

Organic solvents: 0.0 %

Solids content: 99.5 %

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(Contd. of page 5)

• **Other information**

No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

• **Information on toxicological effects**

• **Acute toxicity:**

• **LD/LC50 values that are relevant for classification:**

Oral LD50 1130 mg/kg (rate)

7775-27-1 disodium peroxodisulphate

Oral LD50 925 mg/kg (rat)

• **Primary irritant effect:**

• **on the skin:** No irritant effect.

• **on the eye:** No irritating effect.

• **Sensitization:**

Sensitization possible through inhalation.

Sensitization possible through skin contact.

• **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

• **Carcinogenic categories**

• **IARC (International Agency for Research on Cancer)**

1309-37-1 Ferric oxide

3

• **NTP (National Toxicology Program)**

None of the ingredients is listed.

• **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

• **Toxicity**

• **Aquatic toxicity:** No further relevant information available.

• **Persistence and degradability** No further relevant information available.

• **Bioaccumulative potential** No further relevant information available.

• **Mobility in soil** No further relevant information available.

• **Additional ecological information:**

• **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water

• **Results of PBT and vPvB assessment**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

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(Contd. of page 6)

- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

* 14 Transport information

- **UN-Number** 1505 and 1492
- **UN proper shipping name** Sodium Persulfate and Potassium Persulfate
- **Transport hazard class(es)** 5.1 (Oxidizer)
- **Packing group** III
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** UN1505, Sodium persulfate and UN1492, Potassium persulfate

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

• **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

• **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

• **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

• **Proposition 65**

• **Chemicals known to cause cancer:**

None of the ingredients is listed.

• **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

• **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

• **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

• **Carcinogenic categories**

• **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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Revised on 6/15/2018

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(Contd. of page 7)

• TLV (Threshold Limit Value established by ACGIH)		
1309-37-1	Ferric oxide	A4
• NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		

• **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

• **Hazard pictograms**



• **Signal word** Danger

• **Hazard-determining components of labeling:**

Potassium peroxodisulfate, disodium peroxodisulphate

• **Hazard statements**

May intensify fire; oxidizer.
Harmful if swallowed or if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
May cause respiratory irritation.

• **Precautionary statements**

Take any precaution to avoid mixing with combustibles.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
In case of inadequate ventilation wear respiratory protection.
Keep/Store away from clothing/combustible materials.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see on this label).
Take off contaminated clothing and wash before reuse.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Wash contaminated clothing before reuse.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Rinse mouth.
In case of fire: Use for extinction: CO2, powder or water spray.
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
IF ON SKIN: Wash with plenty of water.
Call a POISON CENTER/doctor if you feel unwell.

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
(Contd. of page 8)

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national/international regulations.

• **National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

• **State Right to Know**

7727-21-1	Potassium peroxodisulfate	50-70%
	 Ox. Sol. 2, H272;  Resp. Sens. 1, H334;  Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2B, H319; Skin Sens. 1, H317; STOT SE 3, H335	
7775-27-1	Disodium peroxodisulphate	20-30%
	 Ox. Sol. 2, H272;  Resp. Sens. 1, H334;  Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
1309-37-1	Ferric oxide	1-20%
-na-	Terr-OR buffer and ferrate stabilizer (see associated SDS)	0 – 5%
All ingredients are listed.		

• **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Date of preparation / last revision** 06/02/2014 / 3

• **Abbreviations and acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Ox. Sol. 2: Oxidizing Solids, Hazard Category 2
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Resp. Sens. 1: Sensitization - Respirat., Hazard Category 1
Skin Sens. 1: Sensitization - Skin, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

• *** Data compared to the previous version altered.**

SDS / MSDS Created by MSDS Authoring Services (www.MSDSAuthoring.com)

MODIFIED CORRECTIVE ACTION PLAN
CALHOUN COUNTY BUS SHOP, JACKSONVILLE, ALABAMA

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APPENDIX C

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):
68	2/21/2024
UST or AST Incident Number:	Facility I.D. Number:
UST95-08-15	10812-015-002129

I.2 Facility Information

Facility Name:	Calhoun County Bus Shop
Facility Address:	310 Whites Gap Road
	Jacksonville, Alabama

I.3 Owner Information:

Owner Name:	Calhoun County Board of Education
Owner Address:	4400 McClelland Boulevard
	Anniston, Alabama 36206

I.4 Response Action Contractor Information:

Approved Response Action Contractor Name:	Bhate Environmental Associates, Inc.
Approved Response Action Contractor Address:	1608 13th Avenue South, Suite 300
	Birmingham, Alabama 35205
Project Contact:	Emmett Beers
Project Contact Phone #:	205-515-2294
Project Contact E-mail:	ebeers@bhate.com
Employer Tax Number (IRS):	63-1035702

Cost Proposal Number:

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Facility Name:

Calhoun County Bus Shop

I.5 Activity Information:

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

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

Activities/Other/Brief Summary of Activities:

Conduct Injection of Cool-Ox per Deep Earth Technologies proposal and ADEM approved Modified Corrective Action Plan.

Provide proposed completion date for this phase of work activities:

5/30/2024

Provide projected date of cleanup completed:

1/1/2026

I.6 Subcontractor Information:

Indicate Subcontractors to be used during this phase of work:

Name & Address	Service Provided
Deep Earth Technologies	ISCO

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Calhoun County Bus Shop

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.

Owner or Operator Signature:

Typed or Printed Name and Title:

Mr. John Godwin, CSFO

Email address:

jgodwin@ccboe.us

Date:

I.8 Cost Proposal- Contractor Signature:

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Response Action Contractor Signature:

Typed or Printed Name and Title:

Emmett A. Beers, Senior Project Manager

Date:

I.9 Trust Fund Obligation Information:

Estimated Total Cost of all
Anticipated Response Actions
(To be updated overtime):

\$600,000.00

Total of Previously Approved Cost
Proposals:

\$414,586.00

Total Proposed Costs to Date
(Approved Costs Plus Costs Proposed in
this Cost Proposal):

\$542,945.60

Estimate Percent Completion of entire project to date:

90%

I.10 Cost Proposal Amount

Proposed Costs under this Cost
Proposal:

\$128,359.60

Personnel**\$8,264.00****Field Equipment****\$0.00****Mileage****\$93.80****Per Diem****\$500.00****Drilling****\$0.00****Analytical****\$0.00****Other****\$119,501.80****Total of This Cost Proposal:****\$128,359.60**

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		1	\$2,901.00
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		1	\$1,331.00
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)				
Total Report and Plan Costs				\$4,232.00

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>
Well Installation Oversight time			
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		
Other Field Activities			
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)	\$3,840.00	1	\$3,840.00
Emergency Response (Contact ADEM for approval)			

Travel

Mileage Rate		\$0.670	
Mileage (One way office to site)		70	
Number of round trips to site		1	\$93.80
Other Mileage (enter total mileage not including office to site)			
Personnel Travel Time (entered in Hours)			
Technician(s)-travel time	\$70 /hr		
Geologist/Engineer-travel time	\$96 /hr	2	\$192.00
PG/PE-travel time	\$132 /hr		
Project Manager-travel time	\$115 /hr		
Per Diem			
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

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

Analytical Samples

Method			Pass Through	Sample #
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		
Dibromoethane1,2, EDB	8011	\$65 /sample		
Dichloroethane1,2 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				\$4,625.80

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) (ONE WAY mileage up to 450 miles) ¹		/mile		
Number of Mobilizations (includes \$300 mob/demob amount)				
Mileage (drilling device "hailed" to the site)(ONE WAY mileage up to 450 miles) ¹		/mile		
(direct push, skid steer, etc.)				
Number of Mobilizations (includes \$300 mob/demob amount)				
Well Completions				
Well Pad Completions for Monitoring Wells (2" and 4")(up to 8" cover) ²	\$205.00	/well		
Well Pad Completions for Monitoring Wells (2" and 4")(12" cover) ²	\$242.00	/well		
Well Pad Completions for Recovery/Extraction Wells (2'x2') ²		/well		
Well Pad Completions Recovery/Extraction Wells non hinged lid (2'x2') ²		/well		
Alternate Screen for Recovery/Extraction Wells per/ft(Quotes Required) ⁴		/foot		
Unconsolidated Media Drilling				
1" / 2" Monitoring Well/Injection Well (HSA) ³	\$65.00	/foot		
4" Monitoring Well (HSA) ³	\$70.00	/foot		
Type III Well (HSA) ⁵	\$145.00	/foot		
Soil Boring (HSA) per ft (includes tremie grout abandonment) ⁶	\$30.00	/foot		
Temporary Well (HSA) per ft (includes tremie grout abandonment) ⁶	\$36.00	/foot		
Sonic Drilling		/foot		
Bedrock Drilling				
Air Rotary Rock Drilling per ft (2") ³	\$71.00	/foot		
Air Rotary Rock Drilling per ft (4") ³	\$77.00	/foot		
Type III Well ⁵	\$145.00	/foot		
Air Compressor		/day		
Rock Coring	\$49.00	/foot		
Direct Push Technology				
Direct Push per day (includes all personnel time) ⁶	\$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 ³	\$35.00	/foot		
4" MW/RW Abandonment by Overdrilling then tremie grouted ³	\$45.00	/foot		
MW/RW Tremie Grout Abandonment	\$18.00	/foot		
(remove well casing to approximately 3' and fill remainder) ³				
Recovery Well Vault removal and backfill w/concrete (2'x2') ⁷	\$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				
Total Drilling Costs				\$0.00

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

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	10%	\$108,638.00	\$119,501.80
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)			
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/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)				
Other/Misc. (receipts required)				
Total Subs / Vendors / Utilities				\$119,501.80

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	Personnel Classification	Hour of Departure	Hour of Return	Activity To Be Performed	Amount Per diem claimed
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	Jacksonville		Geologist			ISCO	\$100.00
Jacksonville						ISCO	\$100.00
Jacksonville						ISCO	\$100.00
Jacksonville						ISCO	\$100.00
Jacksonville	Bham					ISCO	\$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 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	

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	
PE/PG:		\$132.00	
Staff Geologist/ Engineer:		\$96.00	
Staff Scientist:		\$90.00	
Draftsman:		\$70.00	
Clerical:		\$57.00	

Other Plan Report

Other Field Tasks NOT Listed

Description of Activities

Project Manager:		\$115.00	
PE/PG:		\$132.00	
Staff Geologist/ Engineer:	Oversight of ISCO anticipated to take 5 days	\$96.00	40 \$3,840.00
Staff Scientist:		\$90.00	
Technician:		\$70.00	
		Other Field Task	\$3,840.00

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**

Project Manager:		\$115.00	
PE/PG:		\$132.00	
Staff Geologist/ Engineer:		\$96.00	
Staff Scientist:		\$90.00	
Draftsman:		\$70.00	
Clerical:		\$57.00	

CAP Modification

Alabama Tank Trust Fund Form "G" Cost Proposal

Each quoted item should have the appropriate detail amount listed below

Mob/Demob	<input type="text"/>	PVC	<input type="text"/>
		1"	<input type="text"/>
Trackhoe		2"	<input type="text"/>
Daily	<input type="text"/>	4"	<input type="text"/>
Weekly	<input type="text"/>	T's	<input type="text"/>
Backhoe		Couplings	<input type="text"/>
Daily	<input type="text"/>	Elbows	<input type="text"/>
Weekly	<input type="text"/>	45's	<input type="text"/>
Backfill (driver and transport)		Ferrel joint	<input type="text"/>
/ton	<input type="text"/>	Traps	<input type="text"/>
/yard	<input type="text"/>	Cleaner/glue	<input type="text"/>
/loaded mile	<input type="text"/>		
Compaction	<input type="text"/>	Roll off/ drums	<input type="text"/>
Disposal transport (includes driver)			
/ton	<input type="text"/>	Other	<input type="text"/>
/yard	<input type="text"/>	Other	<input type="text"/>
/loaded mile	<input type="text"/>	Other	<input type="text"/>
Equipment Operator		Other	<input type="text"/>
/Hr	<input type="text"/>	Other	<input type="text"/>
/week	<input type="text"/>		
Laborer			
/Hr	<input type="text"/>		
/week	<input type="text"/>		
Water Disposal			
/gallon	<input type="text"/>		
Soil/Solid Waste Disposal fee (Name Landfill)	<input type="text"/>		
/ton	<input type="text"/>		
Sawcutting concrete			
base fee			
/ft	<input type="text"/>		
Horizontal Trenching/Soil (ft)	<input type="text"/>		
Horizontal Trenching/Concrete (ft)	<input type="text"/>		
Crane			
/job	<input type="text"/>		
Skid steer			
/daily	<input type="text"/>		
Electrician			
/hr	<input type="text"/>		
Fencing			
/ft	<input type="text"/>		
/single gate	<input type="text"/>		
/double gate	<input type="text"/>		
Concrete			
/yd	<input type="text"/>		
/bag	<input type="text"/>		
Asphalt			
/yd	<input type="text"/>		
/bag	<input type="text"/>		
Fuel Surcharge	<input type="text"/>		

Alabama Tank Trust Fund

Cost Proposal

Part I

I.1 Cost Proposal Information:

Cost Proposal Number:	Date of Cost Proposal (mm/dd/yy):
69	2/21/2024
UST or AST Incident Number:	Facility I.D. Number:
UST95-08-15	10812-015-002129

I.2 Facility Information

Facility Name:	Calhoun County Bus Shop
Facility Address:	310 Whites Gap Road
	Jacksonville, Alabama

I.3 Owner Information:

Owner Name:	Calhoun County Board of Education
Owner Address:	4400 McClelland Boulevard
	Anniston, Alabama 36206

I.4 Response Action Contractor Information:

Approved Response Action Contractor Name:	Bhate Environmental Associates, Inc.
Approved Response Action Contractor Address:	1608 13th Avenue South, Suite 300
	Birmingham, Alabama 35205
Project Contact:	Emmett Beers
Project Contact Phone #:	205-515-2294
Project Contact E-mail:	ebeers@bhate.com
Employer Tax Number (IRS):	63-1035702

Cost Proposal Number:

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Facility Name:

Calhoun County Bus Shop

I.5 Activity Information:

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

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

Activities/Other/Brief Summary of Activities:

Conduct quarterly groundwater sampling from 12 wells.

Provide proposed completion date for this phase of work activities:

7/30/2024

Provide projected date of cleanup completed:

1/1/2026

I.6 Subcontractor Information:

Indicate Subcontractors to be used during this phase of work:

Name & Address		Service Provided
Pace Analytical		Sample Analysis

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Calhoun County Bus Shop

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.

Owner or Operator Signature:

Typed or Printed Name and Title:

Mr. John Godwin, CSFO

Email address:

jgodwin@ccboe.us

Date:

I.8 Cost Proposal- Contractor Signature:

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Response Action Contractor Signature:

Typed or Printed Name and Title:

Emmett A. Beers, Senior Project Manager

Date:

I.9 Trust Fund Obligation Information:

Estimated Total Cost of all
Anticipated Response Actions
(To be updated overtime):

\$600,000.00

Total of Previously Approved Cost
Proposals:

\$542,945.60

Total Proposed Costs to Date
(Approved Costs Plus Costs Proposed in
this Cost Proposal):

\$548,379.40

Estimate Percent Completion of entire project to date:

91%

I.10 Cost Proposal Amount

Proposed Costs under this Cost
Proposal:

\$5,433.80**Personnel****\$3,617.00****Field Equipment****\$402.00****Mileage****\$93.80****Per Diem****\$170.00****Drilling****\$0.00**

Owners Required Contribution for UST
Release(\$5,000): *Applicable for CP#1 Only*

Analytical**\$1,001.00****Other****\$150.00****Total of This Cost Proposal:****\$5,433.80**

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	\$1,306.00
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	1	\$1,331.00
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)				
Total Report and Plan Costs				\$2,637.00

Part II- Alabama Tank Trust Fund Itemization Form "B" Cost Proposal			
Summary of ATTF Field Scenarios			
Scenarios	Unit \$ Unit	Quantity	Requested\$
Well Installation Oversight time			
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		
Other Field Activities			
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	12	\$840.00
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

Mileage Rate		\$0.670	
Mileage (One way office to site)		70	
Number of round trips to site		1	\$93.80
Other Mileage (enter total mileage not including office to site)			
Personnel Travel Time (entered in Hours)			
Technician(s)-travel time	\$70 /hr	2	\$140.00
Geologist/Engineer-travel time	\$96 /hr		
PG/PE-travel time	\$132 /hr		
Project Manager-travel time	\$115 /hr		
Per Diem			
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	1	\$75.00
Sampling Expendables(gloves, ice, string, jars, foil, distilled water, paper towels, etc.)	\$55 /sow	1	\$55.00
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	1	\$176.00
Bailers	\$8 /bailer	12	\$96.00
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

Scenarios	Unit	\$ Unit	Quantity	Requested\$
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

Method			Pass Through	Sample #	
BTEX/MTBE/Naph (water)	8021	\$65 /sample	10%	12	\$858.00
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			
Dibromoethane1,2, EDB	8011	\$65 /sample			
Dichloroethane1,2 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	Trip Blank	\$65.00 /sample	10%	1	\$71.50
Other	Drum Sample	\$65.00 /sample	10%	1	\$71.50
Other		/sample			
Total Field Costs					\$2,696.80

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) (ONE WAY mileage up to 450 miles) ¹		/mile		
Number of Mobilizations (includes \$300 mob/demob amount)				
Mileage (drilling device "hailed" to the site)(ONE WAY mileage up to 450 miles) ¹		/mile		
(direct push, skid steer, etc.)				
Number of Mobilizations (includes \$300 mob/demob amount)				
Well Completions				
Well Pad Completions for Monitoring Wells (2" and 4")(up to 8" cover) ²	\$205.00	/well		
Well Pad Completions for Monitoring Wells (2" and 4")(12" cover) ²	\$242.00	/well		
Well Pad Completions for Recovery/Extraction Wells (2'x2') ²		/well		
Well Pad Completions Recovery/Extraction Wells non hinged lid (2'x2') ²		/well		
Alternate Screen for Recovery/Extraction Wells per/ft(Quotes Required) ⁴		/foot		
Unconsolidated Media Drilling				
1" / 2" Monitoring Well/Injection Well (HSA) ³	\$65.00	/foot		
4" Monitoring Well (HSA) ³	\$70.00	/foot		
Type III Well (HSA) ⁵	\$145.00	/foot		
Soil Boring (HSA) per ft (includes tremie grout abandonment) ⁶	\$30.00	/foot		
Temporary Well (HSA) per ft (includes tremie grout abandonment) ⁶	\$36.00	/foot		
Sonic Drilling		/foot		
Bedrock Drilling				
Air Rotary Rock Drilling per ft (2") ³	\$71.00	/foot		
Air Rotary Rock Drilling per ft (4") ³	\$77.00	/foot		
Type III Well ⁵	\$145.00	/foot		
Air Compressor		/day		
Rock Coring	\$49.00	/foot		
Direct Push Technology				
Direct Push per day (includes all personnel time) ⁶	\$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 ³	\$35.00	/foot		
4" MW/RW Abandonment by Overdrilling then tremie grouted ³	\$45.00	/foot		
MW/RW Tremie Grout Abandonment	\$18.00	/foot		
(remove well casing to approximately 3' and fill remainder) ³				
Recovery Well Vault removal and backfill w/concrete (2'x2') ⁷	\$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				
Total Drilling Costs				\$0.00

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

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)				
UIC Permit Application (permit fee)				
UIC Permit Greenfield Fee (permit fee)				
Water Supply for Liquid Ring Pump				
Water Treatment/Disposal			\$100.00	\$100.00
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)				
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/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)				
Other/Misc. (receipts required)				
Total Subs / Vendors / Utilities				\$100.00

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	Personnel Classification	Hour of Departure	Hour of Return	Activity To Be Performed	Amount Per diem claimed
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	Jacksonville		Geologist			GW Sampling	\$85.00
Jacksonville	Bham						\$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	

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:		\$132.00	<input type="text"/>
Staff Geologist/ Engineer:		\$96.00	<input type="text"/>
Staff Scientist:		\$90.00	<input type="text"/>
Technician:		\$70.00	<input type="text"/>

Other Field Task

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**

Project Manager:		\$115.00	
PE/PG:		\$132.00	
Staff Geologist/ Engineer:		\$96.00	
Staff Scientist:		\$90.00	
Draftsman:		\$70.00	
Clerical:		\$57.00	

CAP Modification

Alabama Tank Trust Fund Form "G" Cost Proposal

Each quoted item should have the appropriate detail amount listed below

Mob/Demob	<input type="text"/>	PVC	
		1"	<input type="text"/>
Trackhoe		2"	<input type="text"/>
Daily	<input type="text"/>	4"	<input type="text"/>
Weekly	<input type="text"/>	T's	<input type="text"/>
Backhoe		Couplings	<input type="text"/>
Daily	<input type="text"/>	Elbows	<input type="text"/>
Weekly	<input type="text"/>	45's	<input type="text"/>
Backfill (driver and transport)		Ferrel joint	<input type="text"/>
/ton	<input type="text"/>	Traps	<input type="text"/>
/yard	<input type="text"/>	Cleaner/glue	<input type="text"/>
/loaded mile	<input type="text"/>		
Compaction	<input type="text"/>	Roll off/ drums	<input type="text"/>
Disposal transport (includes driver)			
/ton	<input type="text"/>	Other	<input type="text"/>
/yard	<input type="text"/>	Other	<input type="text"/>
/loaded mile	<input type="text"/>	Other	<input type="text"/>
Equipment Operator		Other	<input type="text"/>
/Hr	<input type="text"/>	Other	<input type="text"/>
/week	<input type="text"/>		
Laborer			
/Hr	<input type="text"/>		
/week	<input type="text"/>		
Water Disposal			
/gallon	<input type="text"/>		
Soil/Solid Waste Disposal fee (Name Landfill)	<input type="text"/>		
/ton	<input type="text"/>		
Sawcutting concrete			
base fee			
/ft	<input type="text"/>		
Horizontal Trenching/Soil (ft)	<input type="text"/>		
Horizontal Trenching/Concrete (ft)	<input type="text"/>		
Crane			
/job	<input type="text"/>		
Skid steer			
/daily	<input type="text"/>		
Electrician			
/hr	<input type="text"/>		
Fencing			
/ft	<input type="text"/>		
/single gate	<input type="text"/>		
/double gate	<input type="text"/>		
Concrete			
/yd	<input type="text"/>		
/bag	<input type="text"/>		
Asphalt			
/yd	<input type="text"/>		
/bag	<input type="text"/>		
Fuel Surcharge	<input type="text"/>		

Alabama Tank Trust Fund

Cost Proposal

Part I

I.1 Cost Proposal Information:

Cost Proposal Number:	Date of Cost Proposal (mm/dd/yy):
70	2/21/2024
UST or AST Incident Number:	Facility I.D. Number:
UST95-08-15	10812-015-002129

I.2 Facility Information

Facility Name:	Calhoun County Bus Shop
Facility Address:	310 Whites Gap Road
	Jacksonville, Alabama

I.3 Owner Information:

Owner Name:	Calhoun County Board of Education
Owner Address:	4400 McClelland Boulevard
	Anniston, Alabama 36206

I.4 Response Action Contractor Information:

Approved Response Action Contractor Name:	Bhate Environmental Associates, Inc.
Approved Response Action Contractor Address:	1608 13th Avenue South, Suite 300
	Birmingham, Alabama 35205
Project Contact:	Emmett Beers
Project Contact Phone #:	205-515-2294
Project Contact E-mail:	ebeers@bhate.com
Employer Tax Number (IRS):	63-1035702

Cost Proposal Number:

70

Facility Name:

Calhoun County Bus Shop

I.5 Activity Information:

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

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

Activities/Other/Brief Summary of Activities:

Conduct quarterly sampling from 12 monitoring wells.

Provide proposed completion date for this phase of work activities:

10/30/2024

Provide projected date of cleanup completed:

1/1/2026

I.6 Subcontractor Information:

Indicate Subcontractors to be used during this phase of work:

Name & Address		Service Provided
Pace Analytical		Sample Analysis

70

Calhoun County Bus Shop

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.

Owner or Operator Signature:

Typed or Printed Name and Title:

Mr. John Godwin, CSFO

Email address:

jgodwin@ccboe.us

Date:

I.8 Cost Proposal- Contractor Signature:

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Response Action Contractor Signature:

Typed or Printed Name and Title:

Emmett A. Beers, Senior Project Manager

Date:

I.9 Trust Fund Obligation Information:

Estimated Total Cost of all
Anticipated Response Actions
(To be updated overtime):

\$600,000.00

Total of Previously Approved Cost
Proposals:

\$542,945.60

Total Proposed Costs to Date
(Approved Costs Plus Costs Proposed in
this Cost Proposal):

\$548,379.40

Estimate Percent Completion of entire project to date:

91%

I.10 Cost Proposal Amount

Proposed Costs under this Cost
Proposal:

\$5,433.80

Personnel**\$3,617.00****Field Equipment****\$402.00****Mileage****\$93.80****Per Diem****\$170.00****Drilling****\$0.00**

Owners Required Contribution for UST
Release(\$5,000): *Applicable for CP#1 Only*

Analytical**\$1,001.00****Other****\$150.00****Total of This Cost Proposal:****\$5,433.80**

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	\$1,306.00
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	1	\$1,331.00
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)				
Total Report and Plan Costs				\$2,637.00

Part II- Alabama Tank Trust Fund Itemization Form "B" Cost Proposal			
Summary of ATTF Field Scenarios			
Scenarios	Unit \$ Unit	Quantity	Requested\$
Well Installation Oversight time			
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		
Other Field Activities			
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	12	\$840.00
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

Mileage Rate		\$0.670	
Mileage (One way office to site)		70	
Number of round trips to site		1	\$93.80
Other Mileage (enter total mileage not including office to site)			
Personnel Travel Time (entered in Hours)			
Technician(s)-travel time	\$70 /hr	2	\$140.00
Geologist/Engineer-travel time	\$96 /hr		
PG/PE-travel time	\$132 /hr		
Project Manager-travel time	\$115 /hr		
Per Diem			
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	1	\$75.00
Sampling Expendables(gloves, ice, string, jars, foil, distilled water, paper towels, etc.)	\$55 /sow	1	\$55.00
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	1	\$176.00
Bailers	\$8 /bailer	12	\$96.00
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

Scenarios	Unit	\$ Unit	Quantity	Requested\$
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

Method			Pass Through	Sample #	
BTEX/MTBE/Naph (water)	8021	\$65 /sample	10%	12	\$858.00
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			
Dibromoethane1,2, EDB	8011	\$65 /sample			
Dichloroethane1,2 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	Trip Blank	\$65.00 /sample	10%	1	\$71.50
Other	Drum Sample	\$65.00 /sample	10%	1	\$71.50
Other		/sample			

Total Field Costs
\$2,696.80

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) (ONE WAY mileage up to 450 miles) ¹		/mile		
Number of Mobilizations (includes \$300 mob/demob amount)				
Mileage (drilling device "hauling" to the site)(ONE WAY mileage up to 450 miles) ¹		/mile		
(direct push, skid steer, etc.)				
Number of Mobilizations (includes \$300 mob/demob amount)				
Well Completions				
Well Pad Completions for Monitoring Wells (2" and 4")(up to 8" cover) ²	\$205.00	/well		
Well Pad Completions for Monitoring Wells (2" and 4")(12" cover) ²	\$242.00	/well		
Well Pad Completions for Recovery/Extraction Wells (2'x2') ²		/well		
Well Pad Completions Recovery/Extraction Wells non hinged lid (2'x2') ²		/well		
Alternate Screen for Recovery/Extraction Wells per/ft(Quotes Required) ⁴		/foot		
Unconsolidated Media Drilling				
1" / 2" Monitoring Well/Injection Well (HSA) ³	\$65.00	/foot		
4" Monitoring Well (HSA) ³	\$70.00	/foot		
Type III Well (HSA) ⁵	\$145.00	/foot		
Soil Boring (HSA) per ft (includes tremie grout abandonment) ⁶	\$30.00	/foot		
Temporary Well (HSA) per ft (includes tremie grout abandonment) ⁶	\$36.00	/foot		
Sonic Drilling		/foot		
Bedrock Drilling				
Air Rotary Rock Drilling per ft (2") ³	\$71.00	/foot		
Air Rotary Rock Drilling per ft (4") ³	\$77.00	/foot		
Type III Well ⁵	\$145.00	/foot		
Air Compressor		/day		
Rock Coring	\$49.00	/foot		
Direct Push Technology				
Direct Push per day (includes all personnel time) ⁶	\$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 ³	\$35.00	/foot		
4" MW/RW Abandonment by Overdrilling then tremie grouted ³	\$45.00	/foot		
MW/RW Tremie Grout Abandonment	\$18.00	/foot		
(remove well casing to approximately 3' and fill remainder) ³				
Recovery Well Vault removal and backfill w/concrete (2'x2') ⁷	\$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				
Total Drilling Costs				\$0.00

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

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)				
UIC Permit Application (permit fee)				
UIC Permit Greenfield Fee (permit fee)				
Water Supply for Liquid Ring Pump				
Water Treatment/Disposal	carbon filtration		\$100.00	\$100.00
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)				
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/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)				
Other/Misc. (receipts required)				
Total Subs / Vendors / Utilities				\$100.00

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	Personnel Classification	Hour of Departure	Hour of Return	Activity To Be Performed	Amount Per diem claimed
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	Jacksonville		Geologist			ISCO	\$85.00
Jacksonville	Bham					ISCO	\$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	

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:		\$132.00	<input type="text"/>
Staff Geologist/ Engineer:		\$96.00	<input type="text"/>
Staff Scientist:		\$90.00	<input type="text"/>
Technician:		\$70.00	<input type="text"/>

Other Field Task

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**

Project Manager:		\$115.00	
PE/PG:		\$132.00	
Staff Geologist/ Engineer:		\$96.00	
Staff Scientist:		\$90.00	
Draftsman:		\$70.00	
Clerical:		\$57.00	

CAP Modification

Alabama Tank Trust Fund Form "G" Cost Proposal

Each quoted item should have the appropriate detail amount listed below

Mob/Demob	<input type="text"/>	PVC	<input type="text"/>
		1"	<input type="text"/>
Trackhoe		2"	<input type="text"/>
Daily	<input type="text"/>	4"	<input type="text"/>
Weekly	<input type="text"/>	T's	<input type="text"/>
Backhoe		Couplings	<input type="text"/>
Daily	<input type="text"/>	Elbows	<input type="text"/>
Weekly	<input type="text"/>	45's	<input type="text"/>
Backfill (driver and transport)		Ferrel joint	<input type="text"/>
/ton	<input type="text"/>	Traps	<input type="text"/>
/yard	<input type="text"/>	Cleaner/glue	<input type="text"/>
/loaded mile	<input type="text"/>		
Compaction	<input type="text"/>	Roll off/ drums	<input type="text"/>
Disposal transport (includes driver)			
/ton	<input type="text"/>	Other	<input type="text"/>
/yard	<input type="text"/>	Other	<input type="text"/>
/loaded mile	<input type="text"/>	Other	<input type="text"/>
Equipment Operator		Other	<input type="text"/>
/Hr	<input type="text"/>	Other	<input type="text"/>
/week	<input type="text"/>		
Laborer			
/Hr	<input type="text"/>		
/week	<input type="text"/>		
Water Disposal			
/gallon	<input type="text"/>		
Soil/Solid Waste Disposal fee (Name Landfill)	<input type="text"/>		
/ton	<input type="text"/>		
Sawcutting concrete			
base fee			
/ft	<input type="text"/>		
Horizontal Trenching/Soil (ft)	<input type="text"/>		
Horizontal Trenching/Concrete (ft)	<input type="text"/>		
Crane			
/job	<input type="text"/>		
Skid steer			
/daily	<input type="text"/>		
Electrician			
/hr	<input type="text"/>		
Fencing			
/ft	<input type="text"/>		
/single gate	<input type="text"/>		
/double gate	<input type="text"/>		
Concrete			
/yd	<input type="text"/>		
/bag	<input type="text"/>		
Asphalt			
/yd	<input type="text"/>		
/bag	<input type="text"/>		
Fuel Surcharge	<input type="text"/>		

Alabama Tank Trust Fund

Cost Proposal

Part I

I.1 Cost Proposal Information:

Cost Proposal Number:	Date of Cost Proposal (mm/dd/yy):
70	2/21/2024
UST or AST Incident Number:	Facility I.D. Number:
UST95-08-15	10812-015-002129

I.2 Facility Information

Facility Name:	Calhoun County Bus Shop
Facility Address:	310 Whites Gap Road
	Jacksonville, Alabama

I.3 Owner Information:

Owner Name:	Calhoun County Board of Education
Owner Address:	4400 McClelland Boulevard
	Anniston, Alabama 36206

I.4 Response Action Contractor Information:

Approved Response Action Contractor Name:	Bhate Environmental Associates, Inc.
Approved Response Action Contractor Address:	1608 13th Avenue South, Suite 300
	Birmingham, Alabama 35205
Project Contact:	Emmett Beers
Project Contact Phone #:	205-515-2294
Project Contact E-mail:	ebeers@bhate.com
Employer Tax Number (IRS):	63-1035702

Cost Proposal Number:

70

Facility Name:

Calhoun County Bus Shop

I.5 Activity Information:

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

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

Activities/Other/Brief Summary of Activities:

Conduct quarterly groundwater sampling from 12 monitoring wells.

Provide proposed completion date for this phase of work activities:

10/30/2024

Provide projected date of cleanup completed:

1/1/2026

I.6 Subcontractor Information:

Indicate Subcontractors to be used during this phase of work:

Name & Address		Service Provided
Pace Analytical		Sample Analysis

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Calhoun County Bus Shop

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.

Owner or Operator Signature:

Typed or Printed Name and Title:

Mr. John Godwin, CSFO

Email address:

jgodwin@ccboe.us

Date:

I.8 Cost Proposal- Contractor Signature:

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Response Action Contractor Signature:

Typed or Printed Name and Title:

Emmett A. Beers, Senior Project Manager

Date:

I.9 Trust Fund Obligation Information:

Estimated Total Cost of all
Anticipated Response Actions
(To be updated overtime):

\$600,000.00

Total of Previously Approved Cost
Proposals:

\$548,279.40

Total Proposed Costs to Date
(Approved Costs Plus Costs Proposed in
this Cost Proposal):

\$553,713.20

Estimate Percent Completion of entire project to date:

92%

I.10 Cost Proposal Amount

Proposed Costs under this Cost
Proposal:

\$5,433.80

Personnel**\$3,617.00****Field Equipment****\$402.00****Mileage****\$93.80****Per Diem****\$170.00****Drilling****\$0.00**

Owners Required Contribution for UST
Release(\$5,000): *Applicable for CP#1 Only*

Analytical**\$1,001.00****Other****\$150.00****Total of This Cost Proposal:****\$5,433.80**

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	\$1,306.00
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	1	\$1,331.00
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)				
Total Report and Plan Costs				\$2,637.00

Part II- Alabama Tank Trust Fund Itemization Form "B" Cost Proposal			
Summary of ATTF Field Scenarios			
Scenarios	Unit \$ Unit	Quantity	Requested\$
Well Installation Oversight time			
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		
Other Field Activities			
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	12	\$840.00
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

Mileage Rate		\$0.670	
Mileage (One way office to site)		70	
Number of round trips to site		1	\$93.80
Other Mileage (enter total mileage not including office to site)			
Personnel Travel Time (entered in Hours)			
Technician(s)-travel time	\$70 /hr	2	\$140.00
Geologist/Engineer-travel time	\$96 /hr		
PG/PE-travel time	\$132 /hr		
Project Manager-travel time	\$115 /hr		
Per Diem			
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	1	\$75.00
Sampling Expendables(gloves, ice, string, jars, foil, distilled water, paper towels, etc.)	\$55 /sow	1	\$55.00
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	1	\$176.00
Bailers	\$8 /bailer	12	\$96.00
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

Scenarios	Unit	\$ Unit	Quantity	Requested\$
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

Method			Pass Through	Sample #	
BTEX/MTBE/Naph (water)	8021	\$65 /sample	10%	12	\$858.00
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			
Dibromoethane1,2, EDB	8011	\$65 /sample			
Dichloroethane1,2 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	Trip Blank	\$65.00 /sample	10%	1	\$71.50
Other	Drum Sample	\$65.00 /sample	10%	1	\$71.50
Other		/sample			
Total Field Costs					\$2,696.80

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) (ONE WAY mileage up to 450 miles) ¹		/mile		
Number of Mobilizations (includes \$300 mob/demob amount)				
Mileage (drilling device "hailed" to the site)(ONE WAY mileage up to 450 miles) ¹		/mile		
(direct push, skid steer, etc.)				
Number of Mobilizations (includes \$300 mob/demob amount)				
Well Completions				
Well Pad Completions for Monitoring Wells (2" and 4")(up to 8" cover) ²	\$205.00	/well		
Well Pad Completions for Monitoring Wells (2" and 4")(12" cover) ²	\$242.00	/well		
Well Pad Completions for Recovery/Extraction Wells (2'x2') ²		/well		
Well Pad Completions Recovery/Extraction Wells non hinged lid (2'x2') ²		/well		
Alternate Screen for Recovery/Extraction Wells per/ft(Quotes Required) ⁴		/foot		
Unconsolidated Media Drilling				
1" / 2" Monitoring Well/Injection Well (HSA) ³	\$65.00	/foot		
4" Monitoring Well (HSA) ³	\$70.00	/foot		
Type III Well (HSA) ⁵	\$145.00	/foot		
Soil Boring (HSA) per ft (includes tremie grout abandonment) ⁶	\$30.00	/foot		
Temporary Well (HSA) per ft (includes tremie grout abandonment) ⁶	\$36.00	/foot		
Sonic Drilling		/foot		
Bedrock Drilling				
Air Rotary Rock Drilling per ft (2") ³	\$71.00	/foot		
Air Rotary Rock Drilling per ft (4") ³	\$77.00	/foot		
Type III Well ⁵	\$145.00	/foot		
Air Compressor		/day		
Rock Coring	\$49.00	/foot		
Direct Push Technology				
Direct Push per day (includes all personnel time) ⁶	\$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 ³	\$35.00	/foot		
4" MW/RW Abandonment by Overdrilling then tremie grouted ³	\$45.00	/foot		
MW/RW Tremie Grout Abandonment	\$18.00	/foot		
(remove well casing to approximately 3' and fill remainder) ³				
Recovery Well Vault removal and backfill w/concrete (2'x2') ⁷	\$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				
Total Drilling Costs				\$0.00

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

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)				
UIC Permit Application (permit fee)				
UIC Permit Greenfield Fee (permit fee)				
Water Supply for Liquid Ring Pump				
Water Treatment/Disposal	Carbon filtration		\$100.00	\$100.00
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)				
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/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)				
Other/Misc. (receipts required)				
Total Subs / Vendors / Utilities				\$100.00

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	Personnel Classification	Hour of Departure	Hour of Return	Activity To Be Performed	Amount Per diem claimed
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	Jacksonville		Geologist			ISCO	\$85.00
Jacksonville	Bham					ISCO	\$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

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:		\$132.00	<input type="text"/>
Staff Geologist/ Engineer:		\$96.00	<input type="text"/>
Staff Scientist:		\$90.00	<input type="text"/>
Technician:		\$70.00	<input type="text"/>

Other Field Task

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

Project Manager:		\$115.00	
PE/PG:		\$132.00	
Staff Geologist/ Engineer:		\$96.00	
Staff Scientist:		\$90.00	
Draftsman:		\$70.00	
Clerical:		\$57.00	

CAP Modification

Alabama Tank Trust Fund Form "G" Cost Proposal

Each quoted item should have the appropriate detail amount listed below

Mob/Demob	<input type="text"/>	PVC	
		1"	<input type="text"/>
Trackhoe		2"	<input type="text"/>
Daily	<input type="text"/>	4"	<input type="text"/>
Weekly	<input type="text"/>	T's	<input type="text"/>
Backhoe		Couplings	<input type="text"/>
Daily	<input type="text"/>	Elbows	<input type="text"/>
Weekly	<input type="text"/>	45's	<input type="text"/>
Backfill (driver and transport)		Ferrel joint	<input type="text"/>
/ton	<input type="text"/>	Traps	<input type="text"/>
/yard	<input type="text"/>	Cleaner/glue	<input type="text"/>
/loaded mile	<input type="text"/>		
Compaction	<input type="text"/>	Roll off/ drums	<input type="text"/>
Disposal transport (includes driver)			
/ton	<input type="text"/>	Other	<input type="text"/>
/yard	<input type="text"/>	Other	<input type="text"/>
/loaded mile	<input type="text"/>	Other	<input type="text"/>
Equipment Operator		Other	<input type="text"/>
/Hr	<input type="text"/>	Other	<input type="text"/>
/week	<input type="text"/>		
Laborer			
/Hr	<input type="text"/>		
/week	<input type="text"/>		
Water Disposal			
/gallon	<input type="text"/>		
Soil/Solid Waste Disposal fee (Name Landfill)	<input type="text"/>		
/ton	<input type="text"/>		
Sawcutting concrete			
base fee			
/ft	<input type="text"/>		
Horizontal Trenching/Soil (ft)	<input type="text"/>		
Horizontal Trenching/Concrete (ft)	<input type="text"/>		
Crane			
/job	<input type="text"/>		
Skid steer			
/daily	<input type="text"/>		
Electrician			
/hr	<input type="text"/>		
Fencing			
/ft	<input type="text"/>		
/single gate	<input type="text"/>		
/double gate	<input type="text"/>		
Concrete			
/yd	<input type="text"/>		
/bag	<input type="text"/>		
Asphalt			
/yd	<input type="text"/>		
/bag	<input type="text"/>		
Fuel Surcharge	<input type="text"/>		

Alabama Tank Trust Fund

Cost Proposal

Part I

I.1 Cost Proposal Information:

Cost Proposal Number:	Date of Cost Proposal (mm/dd/yy):
72	2/21/2024
UST or AST Incident Number:	Facility I.D. Number:
UST95-08-15	10812-015-002129

I.2 Facility Information

Facility Name:	Calhoun County Bus Shop
Facility Address:	310 Whites Gap Road
	Jacksonville, Alabama

I.3 Owner Information:

Owner Name:	Calhoun County Board of Education
Owner Address:	4400 McClelland Boulevard
	Anniston, Alabama 36206

I.4 Response Action Contractor Information:

Approved Response Action Contractor Name:	Bhate Environmental Associates, Inc.
Approved Response Action Contractor Address:	1608 13th Avenue South, Suite 300
	Birmingham, Alabama 35205
Project Contact:	Emmett Beers
Project Contact Phone #:	205-515-2294
Project Contact E-mail:	ebeers@bhate.com
Employer Tax Number (IRS):	63-1035702

Cost Proposal Number:

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Facility Name:

Calhoun County Bus Shop

I.5 Activity Information:

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

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

Activities/Other/Brief Summary of Activities:

Conduct quarterly groundwater sampling from 12 monitoring wells.

Provide proposed completion date for this phase of work activities:

2/28/2025

Provide projected date of cleanup completed:

1/1/2026

I.6 Subcontractor Information:

Indicate Subcontractors to be used during this phase of work:

Name & Address		Service Provided
Pace Analytical		Sample Analysis

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Calhoun County Bus Shop

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.

Owner or Operator Signature:

Typed or Printed Name and Title:

Mr. John Godwin, CSFO

Email address:

jgodwin@ccboe.us

Date:

I.8 Cost Proposal- Contractor Signature:

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Response Action Contractor Signature:

Typed or Printed Name and Title:

Emmett A. Beers, Senior Project Manager

Date:

I.9 Trust Fund Obligation Information:

Estimated Total Cost of all
Anticipated Response Actions
(To be updated overtime):

\$600,000.00

Total of Previously Approved Cost
Proposals:

\$553,613.20

Total Proposed Costs to Date
(Approved Costs Plus Costs Proposed in
this Cost Proposal):

\$559,047.00

Estimate Percent Completion of entire project to date:

93%

I.10 Cost Proposal Amount

Proposed Costs under this Cost
Proposal:

\$5,433.80

Personnel**\$3,617.00****Field Equipment****\$402.00****Mileage****\$93.80****Per Diem****\$170.00****Drilling****\$0.00**

Owners Required Contribution for UST
Release(\$5,000): *Applicable for CP#1 Only*

Owners Required Contribution for AST
Release(\$10,000): *Applicable for CP#1
Only*

Analytical**\$1,001.00****Other****\$150.00****Total of This Cost Proposal:****\$5,433.80**

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	\$1,306.00
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	1	\$1,331.00
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)				
Total Report and Plan Costs				\$2,637.00

Part II- Alabama Tank Trust Fund Itemization Form "B" Cost Proposal			
Summary of ATTF Field Scenarios			
Scenarios	Unit \$ Unit	Quantity	Requested\$
Well Installation Oversight time			
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		
Other Field Activities			
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	12	\$840.00
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

Mileage Rate		\$0.670	
Mileage (One way office to site)		70	
Number of round trips to site		1	\$93.80
Other Mileage (enter total mileage not including office to site)			
Personnel Travel Time (entered in Hours)			
Technician(s)-travel time	\$70 /hr	2	\$140.00
Geologist/Engineer-travel time	\$96 /hr		
PG/PE-travel time	\$132 /hr		
Project Manager-travel time	\$115 /hr		
Per Diem			
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	1	\$75.00
Sampling Expendables(gloves, ice, string, jars, foil, distilled water, paper towels, etc.)	\$55 /sow	1	\$55.00
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	1	\$176.00
Bailers	\$8 /bailer	12	\$96.00
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	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	10%	12	\$858.00
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			
Dibromoethane1,2, EDB	8011	\$65 /sample			
Dichloroethane1,2 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	Trip Blank	\$65.00 /sample	10%	1	\$71.50
Other	Drum Sample	\$65.00 /sample	10%	1	\$71.50
Other		/sample			
Total Field Costs					\$2,696.80

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) (ONE WAY mileage up to 450 miles) ¹		/mile		
Number of Mobilizations (includes \$300 mob/demob amount)				
Mileage (drilling device "hailed" to the site)(ONE WAY mileage up to 450 miles) ¹		/mile		
(direct push, skid steer, etc.)				
Number of Mobilizations (includes \$300 mob/demob amount)				
Well Completions				
Well Pad Completions for Monitoring Wells (2" and 4")(up to 8" cover) ²	\$205.00	/well		
Well Pad Completions for Monitoring Wells (2" and 4")(12" cover) ²	\$242.00	/well		
Well Pad Completions for Recovery/Extraction Wells (2'x2') ²		/well		
Well Pad Completions Recovery/Extraction Wells non hinged lid (2'x2') ²		/well		
Alternate Screen for Recovery/Extraction Wells per/ft(Quotes Required) ⁴		/foot		
Unconsolidated Media Drilling				
1" / 2" Monitoring Well/Injection Well (HSA) ³	\$65.00	/foot		
4" Monitoring Well (HSA) ³	\$70.00	/foot		
Type III Well (HSA) ⁵	\$145.00	/foot		
Soil Boring (HSA) per ft (includes tremie grout abandonment) ⁶	\$30.00	/foot		
Temporary Well (HSA) per ft (includes tremie grout abandonment) ⁶	\$36.00	/foot		
Sonic Drilling		/foot		
Bedrock Drilling				
Air Rotary Rock Drilling per ft (2") ³	\$71.00	/foot		
Air Rotary Rock Drilling per ft (4") ³	\$77.00	/foot		
Type III Well ⁵	\$145.00	/foot		
Air Compressor		/day		
Rock Coring	\$49.00	/foot		
Direct Push Technology				
Direct Push per day (includes all personnel time) ⁶	\$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 ³	\$35.00	/foot		
4" MW/RW Abandonment by Overdrilling then tremie grouted ³	\$45.00	/foot		
MW/RW Tremie Grout Abandonment	\$18.00	/foot		
(remove well casing to approximately 3' and fill remainder) ³				
Recovery Well Vault removal and backfill w/concrete (2'x2') ⁷	\$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				
Total Drilling Costs				\$0.00

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

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)				
UIC Permit Application (permit fee)				
UIC Permit Greenfield Fee (permit fee)				
Water Supply for Liquid Ring Pump				
Water Treatment/Disposal	Carbon filtration		\$100.00	\$100.00
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)				
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/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)			
Other/Misc. (receipts required)			
Other/Misc. (receipts required)			
Other/Misc. (receipts required)			
Total Subs / Vendors / Utilities			\$100.00

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	Personnel Classification	Hour of Departure	Hour of Return	Activity To Be Performed	Amount Per diem claimed
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	Jacksonville		Geologist			ISCO	\$85.00
Jacksonville	Bham					ISCO	\$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

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:		\$132.00	<input type="text"/>
Staff Geologist/ Engineer:		\$96.00	<input type="text"/>
Staff Scientist:		\$90.00	<input type="text"/>
Technician:		\$70.00	<input type="text"/>

Other Field Task

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

Project Manager:		\$115.00	
PE/PG:		\$132.00	
Staff Geologist/ Engineer:		\$96.00	
Staff Scientist:		\$90.00	
Draftsman:		\$70.00	
Clerical:		\$57.00	

CAP Modification

Alabama Tank Trust Fund Form "G" Cost Proposal

Each quoted item should have the appropriate detail amount listed below

Mob/Demob	<input type="text"/>	PVC	
		1"	<input type="text"/>
Trackhoe		2"	<input type="text"/>
Daily	<input type="text"/>	4"	<input type="text"/>
Weekly	<input type="text"/>	T's	<input type="text"/>
Backhoe		Couplings	<input type="text"/>
Daily	<input type="text"/>	Elbows	<input type="text"/>
Weekly	<input type="text"/>	45's	<input type="text"/>
Backfill (driver and transport)		Ferrel joint	<input type="text"/>
/ton	<input type="text"/>	Traps	<input type="text"/>
/yard	<input type="text"/>	Cleaner/glue	<input type="text"/>
/loaded mile	<input type="text"/>		
Compaction	<input type="text"/>	Roll off/ drums	<input type="text"/>
Disposal transport (includes driver)			
/ton	<input type="text"/>	Other	<input type="text"/>
/yard	<input type="text"/>	Other	<input type="text"/>
/loaded mile	<input type="text"/>	Other	<input type="text"/>
Equipment Operator		Other	<input type="text"/>
/Hr	<input type="text"/>	Other	<input type="text"/>
/week	<input type="text"/>		
Laborer			
/Hr	<input type="text"/>		
/week	<input type="text"/>		
Water Disposal			
/gallon	<input type="text"/>		
Soil/Solid Waste Disposal fee (Name Landfill)	<input type="text"/>		
/ton	<input type="text"/>		
Sawcutting concrete			
base fee			
/ft	<input type="text"/>		
Horizontal Trenching/Soil (ft)	<input type="text"/>		
Horizontal Trenching/Concrete (ft)	<input type="text"/>		
Crane			
/job	<input type="text"/>		
Skid steer			
/daily	<input type="text"/>		
Electrician			
/hr	<input type="text"/>		
Fencing			
/ft	<input type="text"/>		
/single gate	<input type="text"/>		
/double gate	<input type="text"/>		
Concrete			
/yd	<input type="text"/>		
/bag	<input type="text"/>		
Asphalt			
/yd	<input type="text"/>		
/bag	<input type="text"/>		
Fuel Surcharge	<input type="text"/>		

MODIFIED CORRECTIVE ACTION PLAN
CALHOUN COUNTY BUS SHOP, JACKSONVILLE, ALABAMA

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APPENDIX D
SITE HEALTH AND SAFETY PLAN

**SITE SAFETY AND HEALTH PLAN
CALHOUN COUNTY BUS SHOP
JACKSONVILLE, ALABAMA**

A. Site Description

Date: February 27, 2024
Location: 310 Whites Gap Road SE
Jacksonville, Alabama

Hazards: Geoprobe rig, ISCO injection, 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

ISCO Injection: Deep Earth Technologies

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
CALHOUN COUNTY BUS SHOP
JACKSONVILLE, 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.)	Variable	Skin: soap wash Eye: rinse immediately Breath: respiratory support Swallow: medical attention immediately Fire Carcinogen
Cool-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

Minimum Personal Protective Equipment by Activity					
Activity	Head/Face	Foot	Hands	Respiratory	Clothing
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 (potential contact with contaminated materials)	Hard Hat (for overhead hazards), Safety Glasses with rigid side shields Hearing protection with a NRR of 26 or greater.	Steel toed boots	Chemical resistant gloves (inner and outer nitrile)	*None	Tyvek coveralls for airborne particulates and negligible splashing Reflective Safety Vest (for traffic areas) Hearing protection around equipment operation
ISCO Injection	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

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.

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.

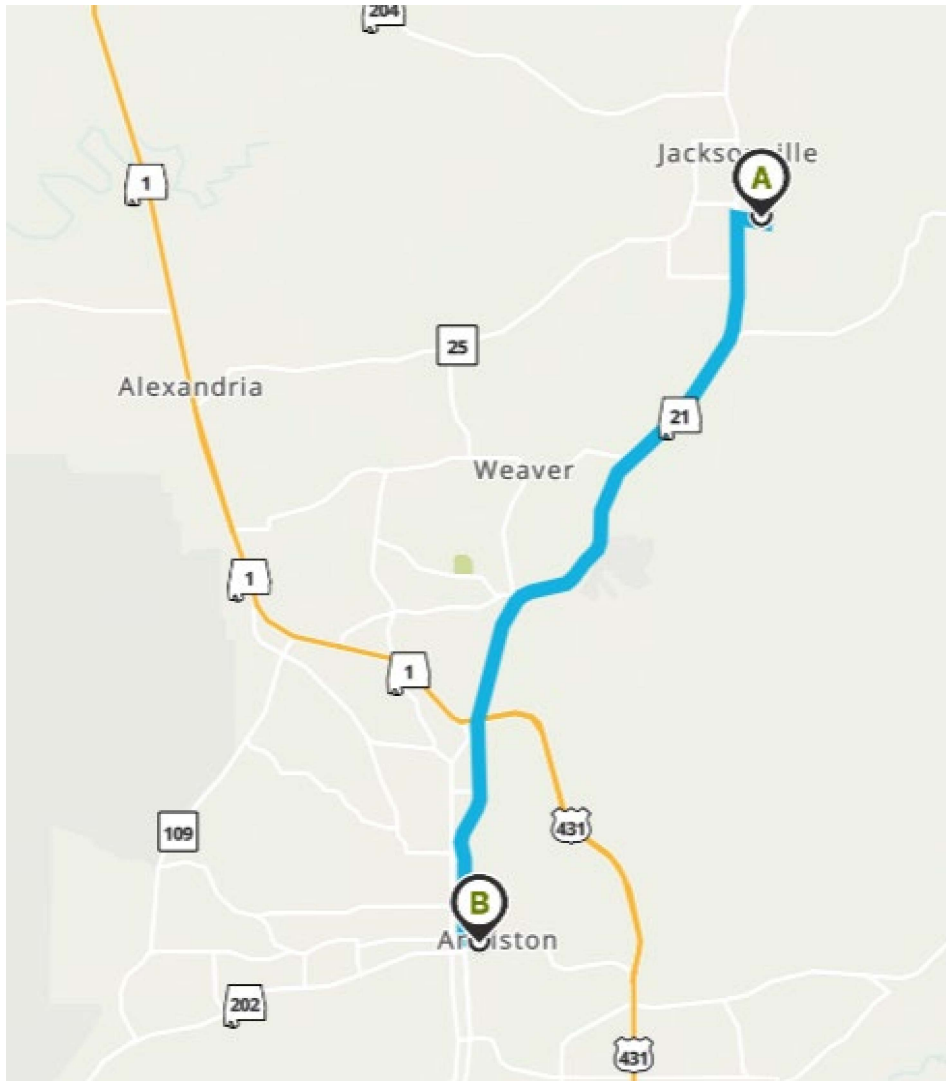
In the event of an emergency, local sources of assistance will be utilized. Cellular telephones will be available to summon emergency services and functionality verified at the work site during the tailgate safety meeting. Prior to the commencement of the work, the SSHO will familiarize the field team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

Hospital Route Directions

Turn right onto Whites Gap Rd SE. Go for 0.4 mi.
Then 0.4 miles
Turn left onto S Pelham Rd (AL-21). Go for 6.5 mi.
Then 6.5 miles
Keep left onto Jacksonville State University Hwy (AL-21 S). Go for 5.0 mi.
Then 5.0 miles
Turn left onto E 10th St. Go for 0.2 mi.
Then 0.2 miles
Turn right. Go for 295 ft.
Then 0.06 miles
Turn left. Go for 243 ft.
Then 0.05 miles

Regional Medical Center
400 E 10th St, Anniston, AL 36207

Hospital Route Map



Source: Mapquest
HOSPITAL ROUTE MAP

Calhoun County Bus
Shop
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"> • Maintain clean work areas by following good housekeeping procedures • Be alert for uneven terrain and steep slopes • Wear slip resistant footwear when walking/working on slippery surface • Keep work area free of dirt, grease, slippery materials, debris, and tools • Provide adequate lighting in all work areas
	Exposure to high noise from heavy equipment and power tools	<ul style="list-style-type: none"> • Hearing protection will be worn with a noise reduction rating capable of maintaining personal exposure below 85 dBA (ear muffs or plugs); SSFO will determine the need for hearing protection; all equipment will be equipped with manufacturer's required mufflers
	Eye injury	<ul style="list-style-type: none"> • Use approved safety glasses with rigid side shields
	Overhead hazards	<ul style="list-style-type: none"> • Personnel will be required to wear hard hats that meet ANSI Standard Z89.1 in all construction areas, and areas with overhead hazards
	Dropped objects	<ul style="list-style-type: none"> • Steel toe boots meeting ANSI Standard Z41 shall be worn
	Back injury from lifting heavy loads	<ul style="list-style-type: none"> • Site personnel will be instructed on proper lifting techniques • Mechanical devices should be used to reduce manual handling of materials • Team lifting should be utilized if mechanical devices are not available

	<p>Thermal Stressors and other hazards (i.e. heat stress, cold stress)</p>	<ul style="list-style-type: none"> • Employees will have appropriate clothing for variable weather • Wear long sleeves and long pants, sunscreen with a high SPF on exposed skin • Employees will take breaks and drink plenty of fluids, as necessary, to prevent heat stress alternating between water and Gatorade-type drinks • Wear insect repellent as needed • Refer to the Corporate HASP for detailed information on heat and cold stress
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General site activities Mobilization and Demobilization (continued)	Spills/Fire	<ul style="list-style-type: none"> Fuel cans will be NFPA approved and equipped with pouring spout or funnel Spill and absorbent materials will be readily available Smoking and open flames are not permitted in fueling/greasing areas All heavy equipment will be equipped with a ABC type fire extinguishers which will be inspected monthly and documented
	Vehicular traffic in work area and heavy equipment operation	<ul style="list-style-type: none"> Wear reflective traffic vest and cordon off work area Maintain awareness of vehicle movement in work area and exercise caution when approaching heavy equipment Equipment will be equipped with functioning back-up alarms, signal lamps and alerting horns Operators are required to use seat belts
	Inclement weather (Thunderstorms and tornadoes)	<ul style="list-style-type: none"> Halt activities immediately and take cover during thunderstorm or tornado warnings, shelter in a building if possible, stay away from windows Listen to radio announcements for pending weather information Do not try to outrun a tornado on foot or in a vehicle
Equipment Used	Inspection Requirements	Training Requirements

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 Cool-OX Injection		
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"> • Drill rig is to be operated and maintained by qualified operators • 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. • To the extent possible, the terrain should be level and the condition of the ground such that unexpected movement of the rig is unlikely • Stabilize the rig prior to boring in accordance with manufacturer's recommendations • Wear required PPE (hard hat, safety glasses, work gloves, ear muffs or plugs, steel toe work boots), ensure loose clothing is secured • Maintain good housekeeping on and around drill rig

	Overhead/buried utilities	<ul style="list-style-type: none"> • Conduct a utility locate to identify the location of underground utilities in boring locations and complete any required dig permits • Overhead utilities should be considered live until determined otherwise. Maintain a minimum distance of 15 feet from overhead utilities • All underground utilities must be clearly marked before beginning work • No borings shall be made within a 4 foot "Buffer Zone" of any utility marking
Boring and Sampling (continued) Hazards and recommended controls from AHA – 01 apply	Exposure to soil and/or water contaminants	<ul style="list-style-type: none"> • To the extent feasible, limit contact with subsurface materials • Wear chemical resistant gloves when handling soil samples (double layer nitrile) • 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. • Wash hands and face prior to eating or drinking after handling potentially contaminated materials •
AHA – Well installation and Treatment		
Activity	Hazards	Controls
Monitoring Well Installation	Pinch points	<ul style="list-style-type: none"> • Utilize appropriate PPE (leather gloves) when handling well casings and tools • Stay clear of rear end of equipment
	Dust	<ul style="list-style-type: none"> • Use care when installing well materials (sand, bentonite, Portland cement) into monitoring well to prevent dust generation. Position body in an upwind location while from materials; handle materials in wet condition wherever possible

Well Injection with Cool-OX	Cool-OX	<ul style="list-style-type: none"> Personnel shall wear appropriate PPE to include face shield and/or goggles, chemical impervious boots, chemical impervious coveralls, chemical impervious gloves, and respiratory protection if determined to be required by the SSFO according to pre-established action limits. . All hose connections shall be secured and verified as secure prior to liquid transfer Pressure is relieved prior to disconnecting any hose lines Utilize a drip pan under any connections during liquid transfer, as feasible Spills shall be contained and cleaned up promptly Personnel shall position themselves in an upwind location Personnel shall use proper personal decontamination techniques Liquid shall be transferred in a controlled manner to prevent splashing and misting Conduct air monitoring to ensure safe airborne concentrations All personnel review hazards as listed on MSDS for chemicals prior to use Appropriate shields placed around wells to prevent pressure release splashing during the oxidation process
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 all 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	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
CALHOUN COUNTY BUS SHOP
JACKSONVILLE, 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	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____

MODIFIED CORRECTIVE ACTION PLAN
CALHOUN COUNTY BUS SHOP, JACKSONVILLE, ALABAMA

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