



NOTASULGA FINA

CAP MODIFICATION REPORT

ATTF CP-80

Notasulga Fina
Alabama Highway 14
Notasulga, Macon Co., AL
Fac ID 15257-087-010450
UST 90-03-19



PREPARED FOR

W.T. Wadsworth
923 Stage Road, Unit F
Auburn, AL 36830

DATE

August 24, 2020

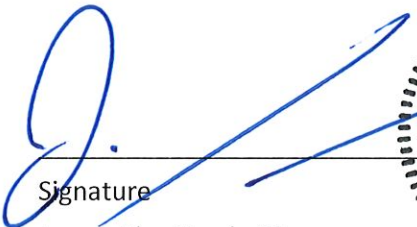
PREPARED BY

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CERTIFICATION PAGE

"I hereby certify that, in my professional judgment, the components of this document and associated work satisfy the applicable requirements set forth in Chapter 335-6 of the ADEM Administrative Code and are consistent with generally accepted professional consulting principles and practices. The information submitted herein, to the best of my knowledge and belief, is true accurate, and complete. I am aware that there are significant penalties for submitting false information."

This document has been prepared based on historical site assessment data and has been prepared to address soil and groundwater contamination at the Notasulga Fina site (Facility Identification Number 15257-087-010450) in Notasulga, Macon County, Alabama. The recommended action should not be construed to apply to any other site.


Signature

James Alan Barck, PE

Alabama Registration No. 32719



8-18-20

Date

1.0 SITE LOCATION AND HISTORY

The former Notasulga Fina facility is an active business currently operating under the name of Ben's Bargains. The site is located at 91 West Main Street in Notasulga, Alabama. The former Notasulga Fina service station was operated from the 1950's until 1989. Tank closure activities conducted in 1989 indicated that petroleum products had been released at the site. The Alabama Tank Trust Fund (ATTF) responsible party for the former Notasulga Fina is W.T. Wadsworth Oil Company.

The former owner of the facility, W.T. Wadsworth Oil Company, Inc., contracted with the firm CDG Engineers & Associates, Inc. to conduct the required investigative actions at the facility. There are currently no underground storage tanks at the site. The property consists of both asphalt, concrete, and grass. The property is bounded to the west by Lyon Street and to the north by West Main Street. City water, sewer, gas, and telephone lines are located underground west along Lyon Street. A water service line, sewer service line, gas line, and an underground telephone line are located on the properties. All utility locations are illustrated in the Figures in Appendix B.

In order to address the onsite hydrocarbon plume, ADEM requested that a Modified Corrective Action Plan be prepared for the site. The following report constitutes the Modified Corrective Action Plan developed as approved in a letter dated May 20, 2020 under cost proposal CP-80.

2.0 SUMMARY OF PREVIOUS SITE INVESTIGATIONS

The owner of the facility, W.T. Wadsworth Oil Company, Inc., contracted with the firm of CDG Engineers and Associates, Inc. to conduct the required investigative actions at the facility. Preliminary and secondary investigations were subsequently performed by CDG Engineers and Associates (CDG) between 1990 and 1993. Remedial studies were completed and a CAP was submitted to ADEM in June 1994. The CAP was approved and remedial measures were implemented, including operation of a groundwater pump and treatment system in June 1996.

A mobile vacuum recovery (MVR) system was operated temporarily at the facility in 1999 to specifically address free product accumulations in several wells at the site. Operation of the MVR system recovered/destroyed on the order of 2,000 gallons of free product while operating on site between June 4 and July 12, 1999.

The pump and treat system has been inoperative since March 2003 after being damaged by a lightning strike. Operational problems with the pumping system and the continued presence of free product in several wells, located up gradient of the recovery well network, were reported in a system effectiveness monitoring report dated November 10, 2003. The system effectiveness monitoring report included recommendations by CDG for additional remedial activities, including implementing multiphase extraction technology (based on historical success at the site in 1999) to address free product and groundwater constituent concentrations.

In September 2005, ADEM requested the development of site-specific corrective action limits. ARBCA data acquisition was completed in January 2006. The ARBCA Tier I/Tier II Evaluation was delivered to ADEM and their acceptance of the proposed site-specific target levels (SSTL) was transmitted in a letter dated July 7, 2006.

From 2007 to 2011, seven cost proposals for MPE events and groundwater monitoring were approved by ADEM for mitigation of free product in wells on site. The activities concluded that there was continued presence of free-phase product and dissolved-phase groundwater concentrations above the SSTLs for the Former Notasulga Fina site. In May 2011, CDG contracted with a high vacuum recovery service provider (Brown Remediation) to conduct three monthly Mobile Enhanced Multi-phase Extraction Events at the former Notasulga Fina site. The activities resulted in approximately 1600 pounds of total hydrocarbons removed, equivalent to 254 gallons of hydrocarbons. In addition, the events produced 4,350 gallons of petroleum contaminated water (PCW).

In response to the success of the previous MEME events and the continued presence of free product and elevated groundwater constituent concentrations SSTLs, CDG submitted a cost proposal for the acquisition of a MPE system located at a former W.T. Wadsworth Oil Company Alabama Tank Trust Fund (ATTF) site. ADEM subsequently approved the System Acquisition and the MPE system was relocated to the Former Notasulga Fina site on March 21, 2012. In a letter dated June 20, 2012, ADEM approved the development of a modified Corrective Action Plan.

The current property owner operates a store that buys and sells second-hand merchandise. Due to the nature of his business, he has accumulated a large quantity of merchandise that occupies the parking lot to the front and rear of the building. The accumulation of merchandise has created challenges regarding the MPE system installation and startup. CDG is pursuing an alternate approach to address the reoccurring levels of free product and groundwater constituent concentrations.

3.0 SUMMARY OF PREVIOUSLY CONDUCTED CORRECTIVE ACTION

Previous corrective action activities have included multiple MEME events and the design and implementation of a pump and treat system. The pump and treat system was installed down gradient to the site and was in operation from June 1996 to March 2003. The system was rendered inoperable in May 2003, after being damaged by a lightning strike. The pump and treat system had been effective in controlling the down gradient extent of the dissolved-phase plume. MEME events were implemented and were conducted by Brown Remediation from 2007 through 2011, however; several source area monitoring wells continue to accumulate measurable amounts of free product. To target the source area, an amended CAP was submitted in November 2012 and included recommendations to install a multiphase extraction (MPE) system at the site. An MPE system was relocated from a former W.T. Wadsworth Oil Company ATTF site, however; it was never properly installed due to limited site access. The most recent product recovery activities have consisted of hand bailing the accumulated free product from the wells during site visits. Currently, there are a total of nineteen Type II monitoring wells, and six Type II recovery wells at the site.

4.0 REMEDIAL OBJECTIVES AND EXPOSURE ASSESSMENT

4.1 *General Remedial Objectives*

The general objectives of the corrective action activities for the facility are as follows:

- Ensure that the health and safety of all project personnel is maintained during remediation activities.
- Prevent hydrocarbon migration to sensitive receptors.
- Remove free product from the site subsurface, if present.
- Reduce adsorbed phase petroleum hydrocarbons from soils within the vadose and saturated zone, primarily in the source area, to below approved SSTLs.
- Reduce dissolved petroleum hydrocarbons from groundwater to below approved SSTLs.
- Accomplish these objectives within the proposed period of operation.

4.2 *Exposure Assessment*

An exposure assessment was conducted by CDG during the Alabama Risk Based Corrective Action (ARBCA) evaluation. The current land use site conceptual exposure model indicates that complete exposure pathways exist onsite and offsite for indoor and outdoor vapor inhalation from soil and groundwater for off site residential, on and off site commercial, and on and off site construction workers. Complete exposure pathways also exist for indoor and outdoor vapor inhalation from

impacted soil and groundwater for offsite residents, commercial workers, and construction workers. Future land use of the site and the surrounding area is expected to remain the same. Results of the water well inventory indicate that there are no public water supply wells located within one mile of the site. Due to the nearest distance from the site (approximately 2,000') and the limited extent of the contaminant plume, the water wells would not be expected to be impacted by this release. There is one private water supply well identified within 1,000 feet of the facility.

4.3 Specific Remedial Objectives

As part of the ARBCA Tier II evaluation process, Site Specific Target Levels (SSTLs) were calculated for the various media (soil and groundwater) at the site based upon the site exposure assessment. The SSTLs were calculated in the ARBCA evaluation conducted in April 2006. A summary of the approved Tier II SSTLs is presented in Appendix C.

5.0 RECENT MONITORING ACTIVITIES, RESULTS, AND COMPARISONS TO ACALS

ADEM requested the development of a modified CAP that would address both soil and groundwater contamination at the site. As part of the modified CAP development, current representative concentrations for the chemicals of concern (COC) are needed in the evaluation and design of a plan to effectively treat and reduce contaminants. The site has had multiple approved groundwater monitoring events, MEME events, and free product removal events conducted. Free product recovery events are conducted bi-weekly. The most recent groundwater monitoring event was completed on May 7, 2020. The following details the activities and results of the May 7, 2020 groundwater monitoring event.

5.1 Groundwater Monitoring Activities

During the most recent groundwater monitoring event conducted on May 7, 2020, the technicians mobilized to the site to collect groundwater samples for Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX), Methyl-tertiary-butyl-ether (MTBE), and Naphthalene analysis. Upon arriving at the site, the technicians removed the well caps from nineteen wells and the water levels in the wells were allowed to stabilize. Potentiometric levels were then measured with an electronic water level indicator and recorded in the site field book. After all measurements were completed, each well was properly purged in preparation for groundwater sampling activities. Free product was detected in nine of the onsite monitoring wells. Approximately 29 gallons of free product and purge water were containerized, transported to the CDG Andalusia office, and disposed of by Oil Recovery Incorporated in Camilla, Georgia. Additionally, 50.5 gallons of purge water were removed from the wells and treated using a

portable carbon unit prior to being discharged on-site. A sample of the treated water was collected for BTEX/MTBE/Naphthalene analysis to verify that the carbon did not have breakthrough.

Groundwater samples were collected from nineteen monitoring wells for BTEX/MTBE/Naphthalene analyses using new, disposable bailers and transferred to 40 mL glass VOA vials preserved with HCl. The samples were placed on ice and transported under chain-of-custody protocol to Waypoint Analytical Laboratory where they were analyzed by purge and trap Method 8260B for the presence of BTEX/MTBE/Naphthalene constituents.

5.2 Laboratory Analytical Results

Based on the most recent water level measurements, the shallow groundwater flow direction appears to be to the southeast. Historic and current water level measurements are presented in the Monitoring Point Data Summary Table (Appendix A). A potentiometric surface map and a groundwater constituent concentration and benzene contour map for the most recent groundwater monitoring event is presented in Appendix B. The BTEX/MTBE and Naphthalene results from groundwater samples collected during the May 7, 2020 monitoring event indicated detectable concentrations of BTEX/MTBE and/or Naphthalene constituents above Groundwater Resource Protection (GRP) and/or Indoor Inhalation in monitoring wells MW-1, MW-3, L-1, L-2, L-5, OW-1, OW-3, OW-5, and OW-6. The data for dissolved oxygen, pH, and Redox potential are presented in Appendix A. The reported concentrations above the SSTLs are as follows:

	<u>Chemical of Concern</u>	<u>GRP SSTLs</u>	<u>Indoor Inhalation SSTLs</u>	<u>Concentration</u>
MW-1	Benzene	0.694 mg/L	12.7 mg/L	2.3416 mg/L
MW-3	Benzene	0.695 mg/L	12.7 mg/L	26.6884 mg/L
L-1	Benzene	0.0258 mg/L	1.94 mg/L	0.1631 mg/L
L-2	Benzene	0.0247 mg/L	1.94 mg/L	0.9143 mg/L
	Naphthalene	0.0986 mg/L	11.1 mg/L	0.1747 mg/L
L-5	Benzene	NA	1.94 mg/L	6.7537 mg/L
OW-1	Benzene	NA	1.94 mg/L	3.7309 mg/L
OW-3	Benzene	0.00695 mg/L	1.94 mg/L	1.3091 mg/L
	Naphthalene	0.0278 mg/L	11.1 mg/L	0.1557 mg/L
OW-5	Benzene	0.698 mg/L	12.7 mg/L	19.8258 mg/L
OW-6	Benzene	0.698 mg/L	12.7 mg/L	30.9464 mg/L

5.3 Free-Phase Product

Measurable amounts of free-phase product have been reoccurring in several of the source area monitoring wells. Beginning in February 2018, free product removal events have conducted on a bi-weekly basis. Since the start of the free product removal activities, 1,117 gallons of purge water and free product have been recovered. Approximately 21 gallons of free product have been removed since February 2018.

During the most recent tri-annual period (April 2020 through July 2020), CDG personnel traveled to the site on eight separate occasions to conduct free product removal via hand bailing. Measurable accumulations of free product were reported to be present during all of the free product removal events. The thickness of the free product during the tri-annual period ranged from 0.01 ft to 3.04 ft. Approximately 429 gallons of recovered purge water with free product or strong hydrocarbon odors were containerized, transported to CDG's Andalusia office and placed in a holding tank where it was disposed of by Oil Recovery Incorporated at their Camilla, GA facility.

5.4 Conclusions

Based upon current constituent concentrations and the risk assessment results, ACALs were calculated for the site using the ARBCA process. There are complete exposure pathways for vapor inhalation from both soil and groundwater on and off-site.

Based upon the May 2020 sampling event, the Benzene and/or Naphthalene concentrations in monitoring wells MW-1, MW-3, L-1, L-2, L-5, OW-1, OW-3, OW-5, and OW-6 exceeded the approved GRP and/or Indoor Inhalation SSTLs. All other BTEX constituent concentrations were below the ARBCA Tier II SSTLs generated for each of the source wells and POC wells.

Measurable amounts of free-phase product continue to reoccur in several of the source area monitoring wells. Beginning in February 2018, free product removal events have conducted on a bi-weekly basis. Since the start of the free product removal activities, 1,117 gallons of purge water and free product have been recovered. During the most recent tri-annual period (April 2020 through July 2020), approximately 429 gallons of recovered purge water with free product or strong hydrocarbon odors were recovered.

6.0 REMEDIATION RATIONALE AND APPROACH

Based upon current groundwater constituent concentrations and the risk assessment results, there are exceedances of the groundwater resource protection and indoor inhalation SSTLs for BTEX constituents. Additionally, measurable amounts of free product continue to reoccur in several source area monitoring wells. The extent of the free product plume is displayed in the site figures, located in Appendix B.

Full-scale technologies addressing both soil and groundwater were reviewed for applicability to the Notasulga site as discussed in the Corrective Action Plan submitted in April 2006.

In order to accelerate the reduction of dissolved hydrocarbon concentrations, CDG recommends that groundwater monitoring activities and free product recovery be enhanced with the introduction of MEME events and mobile air sparging technology. Three MPE extraction line trenches will be installed, allowing easier access for MEME event operators. Additionally, five air sparging points will be installed during the construction of the extraction line trenches. MEME events will be conducted to remove free product, soil vapors, and groundwater. Once free product is no longer present, air sparge technology will be implemented in conjunction with the MEME events. MEME/AS events will be conducted until ACALs are met. Once ACALs are met, MEME/AS will be discontinued and the site will be monitored for rebound for a period of one year. If no rebound occurs, the onsite wells will be abandoned and the site will receive a No Further Action (NFA) status from ADEM.

Natural attenuation is a passive remediation process by which dilution, volatilization, biodegradation, adsorption, and chemical reactivity are allowed to reduce contaminant concentrations to acceptable levels. As a general rule, decreasing trends indicate these natural attenuation processes are occurring and will likely continue to reduce the contaminant concentrations to below acceptable levels. Used in conjunction with MEME/AS events, periodic groundwater sampling is conducted to monitor the natural attenuation process. If COC concentrations increase based on future monitoring results, the CAP approach will be re-evaluated.

7.0 REMEDIATION RECOMMENDATION PLAN

To address the free phase-product and groundwater contamination at the site, the following modified CAP approach is recommended:

Three MPE extraction line trenches will be installed. Additionally, five air sparging points will be installed during the construction of the extraction line trenches. The intent of the recovery lines is to address the reoccurring levels of free product while creating an easier access point for MEME event operators. The recovery lines will be constructed at depth of approximately 12 bgs. At the bottom of each trench, a 2" slotted pvc well screen will be installed horizontally to aid in the removal of groundwater and soil vapors. The line will be surrounded by well-sorted gravel fill. The remainder of the trench will be back filled with compacted fill material. The 2" lines will be brought to the surface near the southern property boundary to allow sufficient access for the mobile MPE unit.

Once measurable levels of free product have been mitigated by MEME events, air sparge technology will be implemented to enhance cleanup efforts. The locations of the proposed air sparge points are indicated in the Proposed Well and Trenching Figure (Appendix B). Each of the sparge points will be constructed with 1-inch diameter Schedule 40 PVC risers extending from just below the ground level to approximately two feet above the bottom of the boring. The sparge points will be set within 8-inch diameter steel manway covers surrounded by concrete pads. Construction details are shown in the Figures section (Appendix B). A two-foot porous media sparge point will be connected to the bottom of the solid riser. The risers and screen will be connected using threaded, flush-joint connections. The air sparge points will be installed to a depth of approximately 40 feet below ground surface (bgs) which is 30 feet below the average groundwater level beneath the site. At this depth the AS wells would be expected to produce a theoretical 30-foot radius of influence around each well.

Following the installation of the proposed sparge points, the modified corrective action approach involves two 12-hour MEME/AS events on a monthly basis. One on the northwestern portion of the property during the day and one on the southern portion of the property at night. In order to receive authorization to inject atmospheric air into the subsurface, an Underground Injection Control (UIC) Permit is required by ADEM. CDG will submit a UIC Permit application to ADEM.

Quarterly groundwater monitoring events will be conducted to monitor the natural attenuation progress toward meeting the remediation goals. Monitoring wells will be sampled for BTEX, MTBE, and Naphthalene and for natural attenuation parameters (DO, pH, and ORP).

8.0 PROPOSED REPORTING REQUIREMENTS

CDG will submit reports in accordance with ADEM requirements. These reports will include the following:

Reporting of Corrective Action Effectiveness - CDG proposes to submit quarterly CASEMR reports, which will summarize field activities and the progress of the system towards achieving site specific target levels. The following data will be included in each report: groundwater elevations, pounds of hydrocarbon removed in the vapor and liquid phase, gallons of water treated, and groundwater analytical results.

The reports will also include system effectiveness and recommendations concerning additional modifications deemed necessary.

Request for Closure Evaluation of Corrective Action - This report will include data that shows that remediation goals have been achieved and request a status of NFA. Methods for abandonment of monitoring and recovery wells will be described.

Site Closure Report - This report will describe in detail the closure of the site and removal of all monitoring wells.

9.0 SCHEDULE OF IMPLEMENTATION

The proposed Modified CAP activities will be implemented immediately following the approval of the Modified CAP. The following schedule indicates the timetable for major project events to be completed as part of this modified corrective action plan:

Time Following Cap Approval (months)	Project Event	Project Event Length
0 – 12	Quarterly groundwater monitoring and MEME/AS events, evaluation of performance, and recommendations for further corrective action if required	1 Year
12-36	MEME w/ Air Sparge. Once free product has been addressed, Air Sparge will be implemented	2 Years
36-48	Rebound monitoring	1 Year

10.0 PROPOSED GROUNDWATER MONITORING ACTIVITIES

Following the approval of the Modified CAP, two monthly 12-hour duration MEME/AS events will be conducted at the site in order to reduce dissolved hydrocarbon concentrations northwestern and

southern portions of the site. During the events, atmospheric air will be injected into air sparge wells (AS-1, AS-2, AS-3, AS-4, and AS-5), while groundwater and soil vapor is extracted from the recovery drain lines. The MEME events will be conducted using a mobile liquid ring MPE system. The MEME system has been approved by ADEM for use at numerous locations in Alabama for free product recovery, emergency response, and pilot testing activities. The unit operates with continuously monitored off-gas treatment (thermal destruction). The AS events will be conducted by CDG Engineers and Associates, Inc. simultaneously with the MEME events.

Prior to the events, static water levels in site wells will be recorded. Applied vacuum in the extraction well and casing vacuums in the observation wells will be recorded periodically during testing. Water level and vacuum measurements, to determine the radius of influence, will be obtained periodically from adjacent wells (OW-5, OW-6, MW-1, MW-3, MW-5, L-5, R-1, R-2, R-3, and R-4) during the events. Measurements of flow and hydrocarbon concentrations will also be obtained periodically during the test. Field measurements will be obtained using a calibrated Ionization Detector (FID) instrument. Hydrocarbon removal rates will be calculated and plotted.

Air will be injected into air sparge wells (AS-1, AS-2, AS-3, AS-4, and AS-5) simultaneously during the events. The AS points will be equipped with wellhead pressure gauges, flowmeters, and control valves. An air supply system consisting of an air filter, air compressor, and pressure vessel. The air compressor should be capable of providing at least 20 cfm at pressures up to 10 to 15 pounds per square inch (gauge) (psig) above the calculated hydrostatic pressure.

Once per quarter, groundwater samples will be collected from all monitoring wells. The groundwater samples will be collected from the monitoring wells using new clean plastic bailers and transferred to 40 milliliter (mL) glass volatile organic analysis (VOA) vials preserved with hydrochloric acid (HCl) for BTEX, MTBE, and Naphthalene analysis in accordance with EPA Method 8260B. During each groundwater sampling event, all monitoring wells will also be sampled for natural attenuation parameters (DO, pH, and ORP). The natural attenuation parameters will provide information concerning the recovery of the shallow aquifer down gradient of the release area.

The results of the proposed activities will be submitted to the Department in the form of quarterly CA/MEME/AS Report. The report will include conclusions regarding the effectiveness of the recovery activities performed and recommendations for future site activities.



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APPENDICES

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Tables

APPENDIX A

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	MW-1		
INSTALLATION DATE:	06/07/90	WELL DEPTH (FT BTOC):	19.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	513.50	WELL TYPE: DIAMETER (IN):	II 2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY				
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
10/14/99	11.23	502.28	0.01	-
03/22/00	10.25	503.25	-	-
06/22/00	12.25	501.97	0.90	-
09/26/00	13.84	500.57	1.14	-
03/21/01	6.85	506.65	-	-
06/21/01	10.30	504.24	1.30	-
03/14/02	10.45	503.07	0.02	-
06/27/02	11.62	502.38	0.62	-
09/27/02	13.55	500.43	0.60	-
12/19/02	11.94	502.08	0.65	-
03/24/03	7.35	506.26	0.14	-
01/29/07	9.95	503.59	0.05	-
07/24/07	12.27	501.23	-	-
07/14/08	11.44	502.06	-	-
10/07/08	11.70	501.86	0.07	-
01/13/09	10.17	503.35	0.02	-
03/07/11	12.05	501.52	0.09	-
05/25/11	11.15	502.35	TRACE	-
06/23/14	8.20	505.30	-	-
01/04/18	10.22	503.28	-	4.0
05/08/18	DRY			
08/07/18	8.85	504.65	-	-
08/21/18	9.14	504.36	-	-
09/04/18	9.74	503.94	0.22	0.22
09/18/18	10.63	503.01	0.18	7.5
10/04/18	10.99	502.52	0.01	0.5
10/18/18	10.41	503.09	-	9.0
01/10/19	6.71	506.79	-	-
02/26/19	6.04	507.47	0.01	0.5
05/23/19	8.01	505.49	-	4.0
05/07/20	7.41	506.41	0.40	5.0

INTRINSIC GROUNDWATER DATA SUMMARY			
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
10/14/99	FREE PRODUCT (0.01 FT)		
03/22/00	-	-	-
06/22/00	FREE PRODUCT (0.90 FT)		
09/26/00	FREE PRODUCT (1.14 FT)		
03/21/01	-	-	-
06/21/01	FREE PRODUCT (1.30 FT)		
03/14/02	FREE PRODUCT (0.02 FT)		
06/27/02	FREE PRODUCT (0.62 FT)		
09/27/02	FREE PRODUCT (0.60 FT)		
12/19/02	FREE PRODUCT (0.65 FT)		
03/24/03	FREE PRODUCT (0.14 FT)		
01/29/07	FREE PRODUCT (0.05 FT)		
07/24/07	-	-	-
07/14/08	-	-	-
10/07/08	FREE PRODUCT (0.07 FT)		
01/13/09	FREE PRODUCT (0.02 FT)		
03/07/11	FREE PRODUCT (0.09 FT)		
05/25/11	-	-	-
06/23/14	-	-	-
01/04/18	2.30	7.20	15.0
05/08/18	DRY		
08/07/18	-	-	-
08/21/18	-	-	-
09/04/18	FREE PRODUCT (0.22 FT)		
09/18/18	FREE PRODUCT (0.18 FT)		
10/04/18	FREE PRODUCT (0.01 FT)		
10/18/18	-	-	-
01/10/19	-	-	-
02/26/19	FREE PRODUCT (0.01 FT)		
05/23/19	-	-	-
05/07/20	FREE PRODUCT (0.40 FT)		

Monitoring Point Data Summary Table

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Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
12/20/00	NOT SAMPLED						
03/21/01	NOT SAMPLED						
06/21/01	NOT SAMPLED - FREE PRODUCT (1.30 FT)						
03/14/02	NOT SAMPLED - FREE PRODUCT (0.02 FT)						
06/27/02	NOT SAMPLED - FREE PRODUCT (0.62 FT)						
09/27/02	NOT SAMPLED - FREE PRODUCT (0.60 FT)						
12/19/02	NOT SAMPLED - FREE PRODUCT (0.65 FT)						
March-03	CA VIA MPE ENDED						
03/24/03	NOT SAMPLED - FREE PRODUCT (0.14 FT)						
10/18/04	NOT SAMPLED						
01/29/07	NOT SAMPLED - FREE PRODUCT (0.05 FT)						
May-07	CA VIA MEME STARTED						
07/24/07	0.0100	3.3435	4.3083	0.2760	4.7740	12.7018	-
07/14/08	NOT SAMPLED						
10/07/08	NOT SAMPLED - FREE PRODUCT (0.07 FT)						
01/13/09	NOT SAMPLED - FREE PRODUCT (0.02 FT)						
03/07/11	<0.04	8.5156	13.8894	0.7533	15.7648	38.9231	-
May-11	CA VIA MEME ENDED						
05/25/11	<0.125	6.7735	10.9666	0.7760	13.9007	32.4168	-
06/23/14	<0.1	6.6238	8.3794	0.5556	14.2183	29.7771	1.6668
05/20/16	NOT SAMPLED						
05/17/17	NOT SAMPLED						
09/12/17	NOT SAMPLED						
01/04/18	0.0200	3.2111	4.5295	0.1557	11.1699	19.0662	0.9078
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	<0.0200	2.2732	2.5130	0.1130	9.6330	14.5323	1.0345
05/07/20	<0.2000	2.3416	1.4886	<0.2000	11.5712	15.4014	1.4469
GRP SSTLS:	2.77	0.694	139	97.1	175	-	2.77
Inhalation SSTLS:	48000	12.7	526	169	175	-	31

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	MW-3		
INSTALLATION DATE:	06/07/90	WELL DEPTH (FT BTOC):	19.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	513.34	WELL TYPE: DIAMETER (IN):	II 2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY				
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
05/10/99	10.34	503.39	0.49	-
08/11/99	9.80	503.80	0.32	-
10/14/99	11.24	502.22	0.15	-
11/09/99	10.71	503.12	0.61	-
03/22/00	10.21	503.27	0.18	-
06/22/00	11.48	501.92	0.08	-
09/26/00	12.78	500.74	0.22	-
12/20/00	12.15	501.31	0.15	-
03/21/01	6.64	506.70	-	-
06/21/01	9.10	504.24	-	-
03/14/02	10.30	503.04	-	-
06/27/02	10.98	502.36	-	-
09/27/02	13.13	500.35	0.18	-
12/19/02	11.38	501.96	-	-
03/24/03	6.97	506.37	-	-
01/29/07	9.80	503.54	-	-
07/24/07	12.17	501.17	-	-
04/09/08	9.65	503.69	-	-
07/14/08	11.06	502.28	-	-
10/07/08	11.55	501.79	-	-
01/13/09	10.04	503.30	-	-
03/07/11	11.94	501.40	TRACE	-
05/25/11	10.76	502.58	TRACE	-
06/23/14	8.60	504.74	-	-
05/20/16	7.55	505.79	-	-
05/17/17	8.80	504.54	-	-
09/12/17	8.67	504.67	-	-
01/04/18	10.14	503.20	-	2.0
05/08/18	9.26	504.08	-	4.0
05/23/19	8.30	505.04	-	4.0
05/07/20	6.43	506.91	-	5.0

INTRINSIC GROUNDWATER DATA SUMMARY			
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
05/10/99	FREE PRODUCT (0.49 FT)		
08/11/99	FREE PRODUCT (0.32 FT)		
10/14/99	FREE PRODUCT (0.15 FT)		
11/09/99	FREE PRODUCT (0.61 FT)		
03/22/00	FREE PRODUCT (0.18 FT)		
06/22/00	FREE PRODUCT (0.08 FT)		
09/26/00	FREE PRODUCT (0.22 FT)		
12/20/00	FREE PRODUCT (0.15 FT)		
03/21/01	-	-	-
06/21/01	-	-	-
03/14/02	-	-	-
06/27/02	-	-	-
09/27/02	FREE PRODUCT (0.18 FT)		
12/19/02	-	-	-
03/24/03	-	-	-
01/29/07	-	-	-
07/24/07	-	-	-
04/09/08	-	-	-
07/14/08	-	-	-
10/07/08	-	-	-
01/13/09	-	-	-
03/07/11	-	-	-
05/25/11	-	-	-
06/23/14	-	-	-
05/20/16	-	-	-
05/17/17	-	-	-
09/12/17	-	-	-
01/04/18	2.21	6.7	6
05/08/18	2.84	5.8	121
05/23/19	2.21	5.6	76
05/07/20	-	-	-

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	MW-3		
INSTALLATION DATE:	06/07/90	WELL DEPTH (FT BTOC):	19.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	513.34	WELL TYPE: DIAMETER (IN):	II 2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
03/21/01	NOT SAMPLED						
06/21/01	NOT SAMPLED						
03/14/02	NOT SAMPLED						
06/27/02	NOT SAMPLED						
09/27/02	NOT SAMPLED - FREE PRODUCT (0.15 FT)						
12/19/02	NOT SAMPLED						
March-03	CA VIA MPE ENDED						
03/24/03	NOT SAMPLED						
10/18/04	NOT SAMPLED						
01/29/07	<0.25	22.9415	23.8647	2.1299	13.4424	62.3785	-
May-07	CA VIA MEME STARTED						
07/24/07	0.1000	31.1747	27.1947	1.6478	10.5824	70.5996	-
04/09/08	<0.25	24.0153	24.2034	1.7052	10.3894	60.3133	-
07/14/08	<0.25	29.1769	31.2706	3.1271	19.1521	82.7267	-
10/07/08	<0.25	28.6126	29.0441	2.9714	18.7457	79.3738	-
01/13/09	<0.25	23.3203	24.9630	1.9511	12.6462	62.8806	-
03/07/11	<0.25	25.6689	29.2423	2.4677	15.2752	72.6541	-
May-11	CA VIA MEME ENDED						
05/25/11	<0.25	30.4599	30.9832	2.7967	16.2963	80.5361	-
06/23/14	<0.25	30.4633	30.1825	2.0384	12.4750	75.1592	1.0931
05/20/16	<0.25	31.3294	31.4564	2.0105	13.0186	77.8149	0.7416
05/17/17	<0.25	29.9770	28.5044	2.2839	14.7816	75.5469	1.0741
09/12/17	<0.0500	5.0603	6.7202	0.5414	4.1231	16.4450	0.3495
01/04/18	<0.0500	24.8047	28.3941	1.5233	10.3285	65.0506	1.2409
05/08/18	0.0698	26.1067	32.4380	2.2064	14.8479	75.5990	0.9065
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	<0.1000	27.8859	28.5148	1.9859	12.6644	71.0509	0.7718
05/07/20	<0.1000	26.6884	27.4147	1.6173	12.6462	68.3666	0.8912
GRP SSTLs:	2.79	0.695	140	97.8	175	-	2.79
Inhalation SSTLs:	48000	12.7	526	169	175	-	31

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	MW-4		
INSTALLATION DATE:	06/08/90	WELL DEPTH (FT BTOC):	19.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	515.68	WELL TYPE: DIAMETER (IN):	II 2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY				
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
09/27/02	14.75	501.44	0.64	-
12/19/02	14.13	501.75	0.25	-
03/24/03	9.45	506.23	-	-
01/29/07	12.34	503.34	-	-
07/24/07	14.51	501.19	0.03	-
04/09/08	12.28	503.40	-	-
07/14/08	13.80	501.88	-	-
10/07/08	14.12	501.70	0.17	-
01/13/09	12.65	503.03	-	-
03/07/11	14.55	501.13	TRACE	-
05/25/11	13.22	502.46	TRACE	-
06/23/14	10.52	505.16	-	-
05/20/16	10.98	504.70	-	-
05/17/17	11.21	504.47	-	-
09/12/17	11.44	504.24	-	-
01/04/18	12.69	502.99	-	0.7
05/08/18	11.42	504.28	0.02	3.0
08/07/18	10.55	505.45	0.40	0.4
08/21/18	9.91	506.42	0.81	0.81
09/04/18	9.87	506.34	0.66	0.66
09/18/18	13.34	502.95	0.76	8.0
10/04/18	12.14	503.55	0.01	0.5
10/18/18	12.75	503.33	0.50	10.0
11/20/18	11.78	503.90	-	8.0
12/18/18	12.97	503.38	0.84	3.6
01/10/19	9.09	506.59	-	-
01/24/19	10.63	505.05	-	4.1
02/12/19	9.25	506.43	-	10.0
02/26/19	9.75	505.94	0.01	0.5
05/23/19	9.91	505.77	-	3.0
05/07/20	9.29	506.40	0.01	4.0

INTRINSIC GROUNDWATER DATA SUMMARY			
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
09/27/02	FREE PRODUCT (0.64 FT)		
12/19/02	FREE PRODUCT (0.25 FT)		
03/24/03	-	-	-
01/29/07	-	-	-
07/24/07	FREE PRODUCT (0.03 FT)		
04/09/08	-	-	-
07/14/08	-	-	-
10/07/08	FREE PRODUCT (0.17 FT)		
01/13/09	-	-	-
03/07/11	-	-	-
05/25/11	-	-	-
06/23/14	-	-	-
05/20/16	-	-	-
05/17/17	-	-	-
09/12/17	-	-	-
01/04/18	2.70	6.90	30.0
05/08/18	3.01	5.60	109.0
09/18/18	FREE PRODUCT (0.40 FT)		
08/21/18	FREE PRODUCT (0.81 FT)		
09/04/18	FREE PRODUCT (0.66 FT)		
09/18/18	FREE PRODUCT (0.76 FT)		
10/04/18	FREE PRODUCT (0.01 FT)		
10/18/18	FREE PRODUCT (0.50 FT)		
11/20/18	-	-	-
12/18/18	FREE PRODUCT (0.84 FT)		
01/10/19	-	-	-
01/24/19	-	-	-
02/12/19	-	-	-
02/26/19	FREE PRODUCT (0.01 FT)		
05/23/19	1.84	5.7	37
05/07/20	FREE PRODUCT (0.01 FT)		

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	MW-4		
INSTALLATION DATE:	06/08/90	WELL DEPTH (FT BTOC):	19.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	515.68	WELL TYPE: DIAMETER (IN):	II 2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
06/21/01	NOT SAMPLED - FREE PRODUCT (0.07 FT)						
03/14/02	NOT SAMPLED - FREE PRODUCT (0.06 FT)						
06/27/02	NOT SAMPLED - FREE PRODUCT (0.49 FT)						
09/27/02	NOT SAMPLED - FREE PRODUCT (0.64 FT)						
12/19/02	NOT SAMPLED - FREE PRODUCT (0.25 FT)						
March-03	CA VIA MPE ENDED						
03/24/03	NOT SAMPLED						
10/18/04	NOT SAMPLED						
01/29/07	<0.25	8.8189	18.0587	1.9126	12.4763	41.2665	-
May-07	CA VIA MEME STARTED						
07/24/07	0.0833	9.8994	17.9459	1.6701	11.3734	40.8888	-
04/09/08	<0.16667	7.1604	12.2544	1.1883	13.9587	34.5618	
07/14/08	NOT SAMPLED						
10/07/08	NOT SAMPLED - FREE PRODUCT (0.17 FT)						
01/13/09	<0.1	10.9642	29.4478	2.3808	20.2983	63.0911	-
03/07/11	<0.2	11.2234	21.1782	1.6167	15.6601	49.6784	-
May-11	CA VIA MEME ENDED						
05/25/11	<0.2	11.3869	33.0408	8.3844	71.2131	124.0252	-
06/23/14	<0.25	11.5451	29.4845	3.9134	26.9140	71.8570	2.4633
05/20/16	<0.25	9.1146	21.1148	1.5920	17.2164	49.0378	1.1904
05/17/17	<0.25	7.3718	20.8262	2.5849	25.1665	55.9494	2.2252
09/12/17	<0.0500	2.2996	6.6243	0.3798	9.0037	18.3074	0.4581
01/04/18	<0.2000	2.3420	7.3012	0.7244	41.6263	51.9939	3.9164
05/08/18	<0.0500	9.1942	22.3638	3.3515	19.3688	54.2783	2.7032
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	<0.1000	1.7436	4.6373	0.4384	8.8392	15.6585	0.6067
05/07/20	<0.0200	1.6468	2.1373	0.0748	4.7545	8.6134	0.3854
GRP SSTLs:	-	-	-	-	-	-	-
Inhalation SSTLs:	48000	12.7	526	169	175	-	31

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	MW-5		
INSTALLATION DATE:	06/08/90	WELL DEPTH (FT BTOC):	15.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	514.52	WELL TYPE: DIAMETER (IN):	II 2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY				
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
01/06/99	11.47	503.05	-	-
03/23/99	10.32	504.20	-	-
08/11/99	10.43	504.09	-	-
10/14/99	11.03	503.49	-	-
03/22/00	10.35	504.17	-	-
06/22/00	11.68	502.84	-	-
09/26/00	11.75	502.77	-	-
12/20/00	11.20	503.32	-	-
03/21/01	6.25	508.27	-	-
06/21/01	9.92	504.60	-	-
03/14/02	10.45	504.07	-	-
06/27/02	11.05	503.47	-	-
09/27/02	11.36	503.16	-	-
12/19/02	11.62	502.90	-	-
03/24/03	7.83	506.69	-	-
01/29/07	10.50	504.02	-	-
07/24/07	12.20	502.32	-	-
04/09/08	10.38	504.14	-	-
07/14/08	11.40	503.12	-	-
10/07/08	12.07	502.45	-	-
01/13/09	10.34	504.18	-	-
03/07/11	11.37	503.15	TRACE	-
05/25/11	11.48	503.04	TRACE	-
06/23/14	8.90	505.62	-	-
05/20/16	8.35	506.17	-	-
05/17/17	DRY			
09/12/17	8.05	506.47	-	-
01/04/18	10.68	503.84	-	0.7
05/08/18	8.62	505.90	-	-
05/23/19	8.27	506.25	-	0.5
05/07/20	7.66	506.86	-	0.5

INTRINSIC GROUNDWATER DATA SUMMARY			
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
01/06/99	-	-	-
03/23/99	-	-	-
08/11/99	-	-	-
10/14/99	-	-	-
03/22/00	-	-	-
06/22/00	-	-	-
09/26/00	-	-	-
12/20/00	-	-	-
03/21/01	-	-	-
06/21/01	-	-	-
03/14/02	-	-	-
06/27/02	-	-	-
09/27/02	-	-	-
12/19/02	-	-	-
03/24/03	-	-	-
01/29/07	-	-	-
07/24/07	-	-	-
04/09/08	-	-	-
07/14/08	-	-	-
10/07/08	-	-	-
01/13/09	-	-	-
03/07/11	-	-	-
05/25/11	-	-	-
06/23/14	-	-	-
05/20/16	-	-	-
05/17/17	DRY		
09/12/17	-	-	-
01/04/18	2.74	6.8	19
05/08/18	-	-	-
05/23/19	1.56	5.5	49
05/07/20	1.96	5.4	72

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	MW-5		
INSTALLATION DATE:	06/08/90	WELL DEPTH (FT BTOC):	15.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	514.52	WELL TYPE: DIAMETER (IN):	II 2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
09/26/00	0.145	0.068	0.082	0.233	0.129	0.512	-
12/20/00	0.123	0.042	0.114	0.264	0.152	0.572	-
03/21/01	NOT SAMPLED						
06/21/01	0.103	0.021	0.066	0.014	0.146	0.247	-
03/14/02	NOT SAMPLED						
06/27/02	0.091	0.037	0.092	0.225	0.134	0.488	-
09/27/02	NOT SAMPLED						
12/19/02	0.098	0.060	0.128	0.308	0.173	0.669	-
March-03	CA VIA MPE ENDED						
03/24/03	NOT SAMPLED						
01/29/07	<0.0025	0.0242	0.0647	0.3369	0.1813	0.6071	-
May-07	CA VIA MEME STARTED						
07/24/07	0.0012	0.0242	0.0598	0.3691	0.1169	0.5700	-
04/09/08	<0.0025	0.0190	0.0398	0.0770	0.2062	0.3420	-
07/14/08	<0.001	0.0224	0.0248	0.1158	0.0926	0.2556	-
10/07/08	<0.001	0.0186	0.0372	0.1428	0.0834	0.2820	-
01/13/09	<0.001	0.0059	0.0073	0.0356	0.0308	0.0796	-
03/07/11	<0.001	0.0202	0.0429	0.1925	0.1431	0.3987	-
May-11	CA VIA MEME ENDED						
05/25/11	<0.001	0.0212	0.0422	0.1940	0.1255	0.3829	-
06/14/14	NOT SAMPLED (DRY)						
05/20/16	<0.001	0.0016	0.0078	0.0036	0.0021	0.0151	0.0013
05/17/17	NOT SAMPLED						
09/12/17	<0.0010	0.0023	0.0044	0.0017	0.0025	0.0109	0.0020
01/04/18	<0.0010	0.0064	0.0226	0.0715	0.0291	0.1296	0.0261
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	<0.0010	0.0010	0.0017	0.0027	0.0024	0.0079	0.0013
05/07/20	<0.0010	<0.0010	<0.0010	0.0017	<0.0010	0.0017	<0.0010
GRP SSTLS:	0.864	0.216	43.2	30.2	175	-	0.864
Inhalation SSTLS:	48000	12.7	526	169	175	-	31

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	R-1		
INSTALLATION DATE:	07/11/90	WELL DEPTH (FT BTOC):	23.0	SCREEN LENGTH (FT):	15	CASING ELEV (FT ABOVE MSL):	513.50	WELL TYPE: DIAMETER (IN):	II 4

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY				
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
08/11/99	10.51	503.33	0.43	-
10/14/99	11.76	501.81	0.09	-
03/22/00	10.65	502.85	-	-
06/22/00	12.00	501.52	0.03	-
09/26/00	14.18	500.14	1.02	-
03/21/01	7.55	506.19	0.30	-
06/21/01	10.59	503.84	1.16	-
03/14/02	11.03	502.62	0.19	-
06/27/02	11.65	502.01	0.20	-
12/19/02	12.30	501.68	0.60	-
03/24/03	7.77	505.86	0.16	-
01/29/07	10.37	503.13	-	-
07/24/07	12.69	500.81	-	-
07/14/08	11.67	501.83	-	-
10/07/08	12.10	501.40	-	-
01/13/09	10.92	502.59	0.01	-
03/07/11	12.44	501.11	0.06	-
05/25/11	11.37	502.13	TRACE	-
06/23/14	9.35	504.15	-	-
01/04/18	10.67	502.83	-	23.5
05/08/18	DRY			
08/07/18	9.30	504.48	0.35	0.35
08/21/18	9.90	504.02	0.53	0.53
09/04/18	9.82	503.99	0.39	0.39
09/18/18	11.23	502.45	0.23	22.0
10/04/18	10.64	503.10	0.30	0.3
10/18/18	10.50	503.14	0.17	14.0
01/10/19	7.28	506.36	0.18	10.0
02/26/19	8.86	504.69	0.06	10.0
05/23/19	8.32	505.43	0.31	5.0
05/07/20	7.50	506.02	0.03	5.0

INTRINSIC GROUNDWATER DATA SUMMARY			
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
08/11/99	FREE PRODUCT (0.43 FT)		
10/14/99	FREE PRODUCT (0.09 FT)		
03/22/00	-	-	-
06/22/00	FREE PRODUCT (0.03 FT)		
09/26/00	FREE PRODUCT (1.02 FT)		
03/21/01	FREE PRODUCT (0.30 FT)		
06/21/01	FREE PRODUCT (1.16 FT)		
03/14/02	FREE PRODUCT (0.19 FT)		
06/27/02	FREE PRODUCT (0.20 FT)		
12/19/02	FREE PRODUCT (0.60 FT)		
03/24/03	FREE PRODUCT (0.16 FT)		
01/29/07	-	-	-
07/24/07	-	-	-
07/14/08	-	-	-
10/07/08	-	-	-
01/13/09	FREE PRODUCT (0.01 FT)		
03/07/11	FREE PRODUCT (0.06 FT)		
05/25/11	-	-	-
06/23/14	-	-	-
01/04/18	1.96	6.90	17.0
05/08/18	DRY		
08/07/18	FREE PRODUCT (0.35 FT)		
08/21/18	FREE PRODUCT (0.53 FT)		
09/18/18	FREE PRODUCT (0.39 FT)		
09/18/18	FREE PRODUCT (0.23 FT)		
10/04/18	FREE PRODUCT (0.30 FT)		
10/18/18	FREE PRODUCT (0.17 FT)		
01/10/19	FREE PRODUCT (0.18 FT)		
02/26/19	FREE PRODUCT (0.06 FT)		
05/23/19	FREE PRODUCT (0.31 FT)		
05/07/20	FREE PRODUCT (0.03 FT)		

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	R-1		
INSTALLATION DATE:	07/11/90	WELL DEPTH (FT BTOC):	23.0	SCREEN LENGTH (FT):	15	CASING ELEV (FT ABOVE MSL):	513.50	WELL TYPE: DIAMETER (IN):	II 4

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
09/26/00	NOT SAMPLED - FREE PRODUCT (1.02 FT)						
03/21/01	NOT SAMPLED - FREE PRODUCT (0.30 FT)						
06/21/01	NOT SAMPLED - FREE PRODUCT (1.16 FT)						
03/14/02	NOT SAMPLED - FREE PRODUCT (0.19 FT)						
06/27/02	NOT SAMPLED - FREE PRODUCT (0.20 FT)						
09/27/02	NOT SAMPLED						
12/19/02	NOT SAMPLED - FREE PRODUCT (0.60 FT)						
March-03	CA VIA MPE ENDED						
03/24/03	NOT SAMPLED - FREE PRODUCT (0.16 FT)						
10/18/04	NOT SAMPLED						
01/29/07	NOT SAMPLED						
May-07	CA VIA MEME STARTED						
07/24/07	0.0100	3.5317	4.2110	0.1613	4.9406	12.8446	-
07/14/08	NOT SAMPLED						
10/07/08	<0.3333	4.6543	9.4166	0.6919	9.1473	23.9101	-
01/13/09	NOT SAMPLED - FREE PRODUCT (0.60 FT)						
03/07/11	<0.08	13.9190	23.3762	2.0857	17.3374	56.7183	-
May-11	CA VIA MEME ENDED						
05/25/11	<0.2	8.2415	15.9244	1.8730	16.5419	42.5808	-
06/23/14	NOT SAMPLED						
05/20/16	NOT SAMPLED						
05/17/17	NOT SAMPLED						
09/12/17	NOT SAMPLED						
01/04/18	0.0080	1.2060	1.6567	0.0899	8.7264	11.6790	0.6647
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	NOT SAMPLED - FREE PRODUCT (0.31 FT)						
05/07/20	<0.1000	2.3320	1.9310	0.1142	5.8760	10.2531	0.9575
GRP SSTLs:	-	-	-	-	-	-	-
Inhalation SSTLs:	48000	12.7	526	169	175	-	31

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	R-2		
INSTALLATION DATE:	11/19/90	WELL DEPTH (FT BTOC):	15.0	SCREEN LENGTH (FT):	5	CASING ELEV (FT ABOVE MSL):	512.24	WELL TYPE: DIAMETER (IN):	II 4

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY				
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
03/24/03	6.97	505.32	0.06	-
01/29/07	10.89	502.82	1.84	-
07/24/07	11.76	500.48	-	-
04/09/08	10.18	502.96	1.12	-
07/14/08	10.70	501.54	-	-
10/07/08	11.18	501.06	-	-
01/13/09	9.61	502.63	-	-
03/07/11	11.35	500.89	TRACE	-
05/25/11	10.42	501.82	TRACE	-
06/23/14	7.95	504.29	-	-
05/20/16	7.40	504.84	-	-
05/17/17	8.73	503.51	-	-
09/12/17	8.69	503.55	-	-
01/04/18	9.80	502.44	-	17.6
05/08/18	8.72	503.52	-	5.0
07/05/18	8.19	504.05	-	-
07/20/18	8.05	504.19	-	-
08/07/18	8.18	504.06	-	-
08/21/18	8.60	503.64	-	-
09/04/18	8.60	503.64	-	-
09/18/18	9.95	502.29	-	17.0
10/04/18	9.51	502.73	-	-
10/18/18	9.41	502.83	-	15.0
11/20/18	9.78	502.46	-	14.0
12/18/18	7.57	505.05	0.47	21.9
01/10/19	8.81	503.43	-	-
01/24/19	6.95	505.29	-	23.2
02/12/19	6.65	505.59	-	23.0
02/26/19	9.24	503.00	-	-
05/23/19	7.24	505.00	-	5.0
05/07/20	6.63	505.61	-	5.0

INTRINSIC GROUNDWATER DATA SUMMARY			
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
03/24/03	FREE PRODUCT (0.06 FT)		
01/29/07	FREE PRODUCT (1.84 FT)		
07/24/07	-	-	-
04/09/08	FREE PRODUCT (1.12 FT)		
07/14/08	-	-	-
10/07/08	-	-	-
01/13/09	-	-	-
03/07/11	-	-	-
05/25/11	-	-	-
06/23/14	-	-	-
05/20/16	-	-	-
05/17/17	-	-	-
09/12/17	-	-	-
01/04/18	1.90	7.10	47.0
05/08/18	2.69	6.00	112.0
07/05/18	-	-	-
07/20/18	-	-	-
08/07/18	-	-	-
08/21/18	-	-	-
09/04/18	-	-	-
09/18/18	-	-	-
10/04/18	-	-	-
10/18/18	-	-	-
11/20/18	-	-	-
12/18/18	FREE PRODUCT (0.47 FT)		
01/10/19	-	-	-
01/24/19	-	-	-
02/12/19	-	-	-
02/26/19	-	-	-
05/23/19	1.67	5.8	112
05/07/20	1.67	5.9	44

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	R-2		
INSTALLATION DATE:	11/19/90	WELL DEPTH (FT BTOC):	15.0	SCREEN LENGTH (FT):	5	CASING ELEV (FT ABOVE MSL):	512.24	WELL TYPE: DIAMETER (IN):	II 4

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
06/21/01	NOT SAMPLED - FREE PRODUCT (0.14 FT)						
03/14/02	NOT SAMPLED - FREE PRODUCT (0.09 FT)						
06/27/02	NOT SAMPLED - FREE PRODUCT (0.07 FT)						
09/27/02	NOT SAMPLED						
12/19/02	NOT SAMPLED - FREE PRODUCT (0.05 FT)						
March-03	CA VIA MPE ENDED						
03/24/03	NOT SAMPLED - FREE PRODUCT (0.06 FT)						
10/18/04	NOT SAMPLED						
01/29/07	NOT SAMPLED - FREE PRODUCT (1.84 FT)						
May-07	CA VIA MEME STARTED						
07/24/07	0.0200	5.1614	11.2499	0.4544	5.5812	22.4469	-
04/09/08	NOT SAMPLED - FREE PRODUCT (1.12 FT)						
07/14/08	<0.1	6.3939	10.7628	0.8482	8.0506	26.0555	-
10/07/08	<0.04	2.9873	5.0143	0.2025	4.7647	12.9688	-
01/13/09	<0.04	1.4537	3.7271	0.1566	4.7306	10.0680	-
03/07/11	<0.02	2.0901	1.5953	0.0737	3.2149	6.9740	-
May-11	CA VIA MEME ENDED						
05/25/11	0.0188	7.7531	7.5564	0.4471	4.3132	20.0698	-
06/23/14	<0.05	2.3837	0.7853	0.1106	2.2945	5.5741	0.2245
05/20/16	<0.025	0.9461	0.2508	0.0315	0.8754	2.1038	0.0716
05/17/17	<0.1	1.4113	0.5611	0.0556	0.7133	2.7413	0.0530
09/12/17	<0.0010	0.0027	0.0013	<0.0010	<0.0010	0.0040	<0.0010
01/04/18	0.0038	0.2473	0.0619	0.0039	0.2906	0.6037	0.0098
05/08/18	<0.0500	0.4994	9.6550	2.5295	19.0015	31.6854	1.4821
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	<0.0010	0.0035	0.0138	0.0035	0.0226	0.0435	0.0049
05/07/20	<0.0010	0.1137	0.0692	0.0160	0.0646	0.2634	0.0100
GRP SSTLs:	-	-	-	-	-	-	-
Inhalation SSTLs:	48000	12.7	526	169	175	-	31

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	R-3		
INSTALLATION DATE:	11/19/90	WELL DEPTH (FT BTOC):	19.0	SCREEN LENGTH (FT):	4	CASING ELEV (FT ABOVE MSL):	509.55	WELL TYPE: DIAMETER (IN):	II 4

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY				
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
01/06/99	9.90	500.95	1.62	-
02/25/99	7.48	502.45	0.48	-
03/23/99	6.85	502.98	0.35	-
04/26/99	6.91	502.85	0.26	-
05/10/99	7.02	502.71	0.22	-
08/11/99	6.65	502.90	-	-
10/14/99	8.50	501.05	-	-
11/09/99	7.50	502.05	-	-
03/22/00	7.00	502.55	-	-
06/22/00	8.35	501.20	-	-
09/26/00	10.93	500.02	1.75	-
12/20/00	9.90	500.89	1.55	-
03/21/01	4.98	505.75	1.48	-
06/21/01	6.50	503.37	0.40	-
03/14/02	8.25	502.40	1.37	-
06/27/02	8.35	501.64	0.55	-
09/27/02	10.58	499.96	1.24	-
12/19/02	9.00	501.56	1.26	-
03/24/03	4.90	505.36	0.89	-
01/29/07	7.72	502.93	1.37	-
07/24/07	9.00	500.55	-	-
04/09/08	7.78	502.92	1.44	-
07/14/08	7.93	501.62	-	-
10/07/08	8.39	501.16	-	-
01/13/09	6.82	502.73	-	-
03/07/11	9.02	501.07	0.68	-
05/25/11	7.63	501.92	TRACE	-
06/23/14	5.12	504.43	-	-
05/20/16	4.65	504.90	-	-
05/07/20	4.05	505.52	0.02	5.0

INTRINSIC GROUNDWATER DATA SUMMARY			
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
01/06/99	FREE PRODUCT (1.62 FT)		
02/25/99	FREE PRODUCT (0.48 FT)		
03/23/99	FREE PRODUCT (0.35 FT)		
04/26/99	FREE PRODUCT (0.26 FT)		
05/10/99	FREE PRODUCT (0.22 FT)		
08/11/99	-	-	-
10/14/99	-	-	-
11/09/99	-	-	-
03/22/00	-	-	-
06/22/00	-	-	-
09/26/00	FREE PRODUCT (1.75 FT)		
12/20/00	FREE PRODUCT (1.55 FT)		
03/21/01	FREE PRODUCT (1.48 FT)		
06/21/01	FREE PRODUCT (0.40 FT)		
03/14/02	FREE PRODUCT (1.37 FT)		
06/27/02	FREE PRODUCT (0.55 FT)		
09/27/02	FREE PRODUCT (1.24 FT)		
12/19/02	FREE PRODUCT (1.26 FT)		
03/24/03	FREE PRODUCT (0.89 FT)		
01/29/07	FREE PRODUCT (1.37 FT)		
07/24/07	-	-	-
04/09/08	FREE PRODUCT (1.44 FT)		
07/14/08	-	-	-
10/07/08	-	-	-
01/13/09	-	-	-
03/07/11	FREE PRODUCT (0.68 FT)		
05/25/11	-	-	-
06/23/14	-	-	-
05/20/16	-	-	-
05/07/20	FREE PRODUCT (0.02 FT)		

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	R-3		
INSTALLATION DATE:	11/19/90	WELL DEPTH (FT BTOC):	19.0	SCREEN LENGTH (FT):	4	CASING ELEV (FT ABOVE MSL):	509.55	WELL TYPE: DIAMETER (IN):	II 4

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
12/20/00	NOT SAMPLED - FREE PRODUCT (1.55 FT)						
03/21/01	NOT SAMPLED - FREE PRODUCT (1.48 FT)						
06/21/01	NOT SAMPLED - FREE PRODUCT (0.40 FT)						
03/14/02	NOT SAMPLED - FREE PRODUCT (1.37 FT)						
06/27/02	NOT SAMPLED - FREE PRODUCT (0.55 FT)						
09/27/02	NOT SAMPLED - FREE PRODUCT (1.24 FT)						
12/19/02	NOT SAMPLED - FREE PRODUCT (1.26 FT)						
March-03	CA VIA MPE ENDED						
03/24/03	NOT SAMPLED - FREE PRODUCT (0.89 FT)						
10/18/04	NOT SAMPLED						
01/29/07	NOT SAMPLED - FREE PRODUCT (1.37 FT)						
May-07	CA VIA MEME STARTED						
07/24/07	0.0100	5.2558	5.5004	0.4544	5.5812	16.7918	-
04/09/08	NOT SAMPLED - FREE PRODUCT (1.44 FT)						
07/14/08	<0.05	13.6026	14.1049	0.9132	8.6882	37.3089	-
10/07/08	<0.008	0.8268	0.9889	0.0753	1.1449	3.0359	-
01/13/09	<0.008	0.1375	0.2922	0.0174	0.9915	1.4386	-
03/07/11	<0.005	22.5189	23.7101	1.9045	14.2573	62.3908	-
May-11	CA VIA MEME ENDED						
05/25/11	<0.2	8.1365	9.3631	0.8978	5.8470	24.2444	-
06/23/14	<0.1	17.0439	31.1161	3.2417	20.9867	72.3884	1.7690
05/20/16	<0.25	4.5903	22.9969	2.0495	16.4198	46.0565	1.0115
05/17/17	NOT SAMPLED						
09/12/17	NOT SAMPLED						
01/04/18	NOT SAMPLED						
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	NOT SAMPLED						
05/07/20	<0.0250	0.0254	0.2211	0.1322	10.1230	10.5016	1.4463
GRP SSTLS:	0.416	0.104	20.8	14.6	175	-	0.416
Inhalation SSTLS:	48000	12.7	526	169	175	-	31

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	R-4		
INSTALLATION DATE:	05/18/93	WELL DEPTH (FT BTOC):	15.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	509.32	WELL TYPE: DIAMETER (IN):	II 4

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY				
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
01/06/99	8.72	500.60	-	-
03/23/99	6.53	502.79	-	-
08/11/99	6.74	502.58	-	-
10/14/99	5.30	504.02	-	-
03/22/00	6.55	502.77	-	-
06/22/00	8.40	500.92	-	-
09/26/00	9.71	499.61	-	-
12/20/00	8.34	500.98	-	-
03/21/01	3.45	505.87	-	-
06/21/01	6.05	503.27	-	-
03/14/02	6.58	502.74	-	-
06/27/02	8.02	501.30	-	-
09/27/02	9.00	500.32	-	-
12/19/02	7.80	501.52	-	-
03/24/03	4.23	505.09	-	-
01/29/07	6.52	502.80	-	-
07/24/07	8.95	500.37	-	-
04/09/08	6.05	503.27	-	-
07/14/08	8.07	501.25	-	-
10/07/08	8.46	500.86	-	-
01/13/09	6.46	502.86	-	-
03/07/11	17.18	492.14	-	-
05/25/11	7.76	501.56	-	-
05/20/16	4.95	504.37	-	-
01/04/18	6.62	502.70	-	12.7
05/08/18	5.92	503.40	-	5.0
05/23/19	4.31	505.01	-	5.0
05/07/20	3.97	505.35	-	5.0

INTRINSIC GROUNDWATER DATA SUMMARY			
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
01/06/99	-	-	-
03/23/99	-	-	-
08/11/99	-	-	-
10/14/99	-	-	-
03/22/00	-	-	-
06/22/00	-	-	-
09/26/00	-	-	-
12/20/00	-	-	-
03/21/01	-	-	-
06/21/01	-	-	-
03/14/02	-	-	-
06/27/02	-	-	-
09/27/02	-	-	-
12/19/02	-	-	-
03/24/03	-	-	-
01/29/07	-	-	-
07/24/07	-	-	-
04/09/08	-	-	-
07/14/08	-	-	-
10/07/08	-	-	-
01/13/09	-	-	-
03/07/11	-	-	-
05/25/11	-	-	-
05/20/16	-	-	-
01/04/18	6.84	6.9	166
05/08/18	3.49	6.2	84
05/23/19	3.39	6.0	141
05/07/20	2.56	5.4	158

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	R-4		
INSTALLATION DATE:	05/18/93	WELL DEPTH (FT BTOC):	15.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	509.32	WELL TYPE: DIAMETER (IN):	II 4

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
12/20/00	NOT SAMPLED						
03/21/01	NOT SAMPLED						
06/21/01	NOT SAMPLED						
03/14/02	NOT SAMPLED						
06/27/02	NOT SAMPLED						
09/27/02	NOT SAMPLED						
12/19/02	NOT SAMPLED						
March-03	CA VIA MPE ENDED						
03/24/03	NOT SAMPLED						
01/29/07	<.001	0.0005	0.0024	0.0012	0.0114	0.0155	-
May-07	CA VIA MEME STARTED						
07/24/07	0.0005	0.1990	0.0305	0.0250	0.0827	0.3372	-
04/09/08	<0.001	0.0046	0.0088	0.0056	0.0424	0.0614	-
07/14/08	<0.001	0.1661	<0.001	0.0146	0.0038	0.1845	-
10/07/08	<0.001	<0.001	<0.001	<0.001	0.0016	0.0016	-
01/13/09	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
03/07/11	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
May-11	CA VIA MEME ENDED						
05/25/11	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
06/23/14	<0.001	0.0349	0.2248	0.0716	0.5299	0.8612	0.0863
05/20/16	<0.001	<0.001	0.0064	0.0030	0.0309	0.0403	0.0154
05/17/17	NOT SAMPLED						
09/12/17	NOT SAMPLED						
01/04/18	<0.0010	<0.0010	0.0011	<0.0010	0.0016	0.0027	0.0054
05/08/18	<0.0010	0.0024	0.0093	0.0015	0.0133	0.0265	0.0038
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	<0.0010	<0.0010	<0.0010	<0.0010	0.0074	0.0074	0.0320
05/07/20	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
GRP SSTLs:	-	-	-	-	-	-	-
Inhalation SSTLs:	48000	12.7	526	169	175	-	31

Monitoring Point Data Summary Table									
SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	R-5		
INSTALLATION DATE:	04/16/07	WELL DEPTH (FT BTOC):	15.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):		WELL TYPE: DIAMETER (IN):	II 4
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

[illegible]

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	R-5		
INSTALLATION DATE:	04/16/07	WELL DEPTH (FT BTOC):	15.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	-	WELL TYPE: DIAMETER (IN):	II 4

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
March-03	CA VIA MPE ENDED						
May-07	CA VIA MEME STARTED						
07/24/07	0.0250	10.6901	11.4939	0.6101	8.2228	31.0169	-
07/14/08	<0.1	8.8994	19.1968	3.2084	23.6623	54.9669	-
10/07/08	<0.05	3.2517	7.5294	1.2257	10.4973	22.5041	-
01/13/09	<0.001	0.0016	0.0046	0.0013	0.0552	0.0627	-
May-11	CA VIA MEME ENDED						
05/20/16	NOT SAMPLED						
05/17/20	NOT SAMPLED						
09/12/17	NOT SAMPLED						
01/04/18	NOT SAMPLED						
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	NOT SAMPLED						
05/07/20	NOT SAMPLED						
GRP SSTLs:	-	-	-	-	-	-	-
Inhalation SSTLs:	48000	12.7	526	169	175	-	31

Monitoring Point Data Summary Table									
SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	R-6		
INSTALLATION DATE:	04/13/07	WELL DEPTH (FT BTOC):	18.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	-	WELL TYPE: DIAMETER (IN):	II 4
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

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Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	R-6		
INSTALLATION DATE:	04/13/07	WELL DEPTH (FT BTOC):	18.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	-	WELL TYPE: DIAMETER (IN):	II 4
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
March-03	CA VIA MPE ENDED						
May-07	CA VIA MEME STARTED						
07/24/07	547.0000	31.7000	64.5000	2.7200	10.1000	109.0200	-
07/14/08	<0.2	9.7185	30.4049	3.2695	21.5471	64.9400	-
10/07/08	<0.025	5.0493	20.3378	2.0354	16.3862	43.8087	-
01/13/09	<0.16667	0.8883	12.1744	1.2745	14.8101	29.1473	-
May-11	CA VIA MEME ENDED						
05/20/16	<0.01	<0.01	0.2136	0.0828	2.5633	2.8597	0.2137
05/17/17	<0.1	0.0417	0.1769	0.0304	1.6125	1.8615	0.1132
09/12/17	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
01/04/18	<0.0010	0.0152	0.0310	0.0037	0.3567	0.4066	0.0234
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	<0.0010	0.0033	0.0175	0.0039	0.0260	0.0507	0.0052
05/07/20	NOT SAMPLED						
GRP SSTLS:	-	-	-	-	-	-	-
Inhalation SSTLS:	48000	12.7	526	169	175	-	31

Monitoring Point Data Summary Table									
SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	R-7		
INSTALLATION DATE:	04/16/07	WELL DEPTH (FT BTOC):	15.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	-	WELL TYPE: DIAMETER (IN):	II 4
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

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Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	R-7		
INSTALLATION DATE:	04/16/07	WELL DEPTH (FT BTOC):	15.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	-	WELL TYPE: DIAMETER (IN):	II 4

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
March-03	CA VIA MPE ENDED						
May-07	CA VIA MEME STARTED						
07/24/07	547	31.7000	64.5000	2.7200	10.1000	109.0200	-
07/14/08	<0.2	16.4722	29.8375	2.5532	14.2274	63.0903	-
10/07/08	<0.1	10.4310	30.3539	3.1610	20.0093	63.9552	-
01/13/09	<0.002	0.0124	0.0793	0.0274	0.5290	0.6481	-
May-11	CA VIA MEME ENDED						
05/20/16	NOT SAMPLED						
05/17/17	NOT SAMPLED						
09/12/17	NOT SAMPLED						
01/04/18	NOT SAMPLED						
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	NOT SAMPLED - FREE PRODUCT (0.39 FT)						
05/07/20	NOT SAMPLED						
GRP SSTLs:	-	-	-	-	-	-	-
Inhalation SSTLs:	48000.0000	12.7000	526.0000	169.0000	175.0000	-	31.0000

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	L-1		
INSTALLATION DATE:	04/22/92	WELL DEPTH (FT BTOC):	15.0	SCREEN LENGTH (FT):	8	CASING ELEV (FT ABOVE MSL):	505.47	WELL TYPE: DIAMETER (IN):	-

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY				
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
01/06/99	4.85	500.62	-	-
03/23/99	2.99	502.48	-	-
08/11/99	3.08	502.39	-	-
10/14/99	4.45	501.02	-	-
03/22/00	3.55	501.92	-	-
06/22/00	4.85	500.62	-	-
09/26/00	5.90	499.57	-	-
12/20/00	4.96	500.51	-	-
03/21/01	0.61	504.86	-	-
06/21/01	2.79	502.68	-	-
06/27/02	4.32	501.15	-	-
09/27/02	5.85	499.62	-	-
12/19/02	4.45	501.02	-	-
03/24/03	1.03	504.44	-	-
07/24/07	5.36	500.11	-	-
04/09/08	3.12	502.35	-	-
07/14/08	4.37	501.10	-	-
10/07/08	4.75	500.72	-	-
01/13/09	3.12	502.35	-	-
03/07/11	4.64	500.83	-	-
05/25/11	4.13	501.34	-	-
06/23/14	1.83	503.64	-	-
05/20/16	1.35	504.12	-	-
05/17/17	2.00	503.47	-	-
09/12/17	1.63	503.84	-	-
01/04/18	3.32	502.15	-	5.4
05/08/18	2.57	502.90	-	5.0
05/23/19	1.24	504.23	-	5.0
05/07/20	0.32	505.15	-	5.0

INTRINSIC GROUNDWATER DATA SUMMARY			
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
01/06/99	-	-	-
03/23/99	-	-	-
08/11/99	-	-	-
10/14/99	-	-	-
03/22/00	-	-	-
06/22/00	-	-	-
09/26/00	-	-	-
12/20/00	-	-	-
03/21/01	-	-	-
06/21/01	-	-	-
06/27/02	-	-	-
09/27/02	-	-	-
12/19/02	-	-	-
03/24/03	-	-	-
07/24/07	-	-	-
04/09/08	-	-	-
07/14/08	-	-	-
10/07/08	-	-	-
01/13/09	-	-	-
03/07/11	-	-	-
05/25/11	-	-	-
06/23/14	1.64	6.7	102
05/20/16	2.56	6.1	23
05/17/17	2.79	6.3	169
09/12/17	-	-	-
01/04/18	2.30	6.8	38
05/08/18	4.28	6.2	151
05/23/19	2.47	6.1	132
05/07/20	1.47	5.8	179

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	L-1		
INSTALLATION DATE:	04/22/92	WELL DEPTH (FT BTOC):	15.0	SCREEN LENGTH (FT):	8	CASING ELEV (FT ABOVE MSL):	505.47	WELL TYPE:	-
								DIAMETER (IN):	-

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
03/21/01	0.001	0.005	0.001	0.001	0.002	0.0090	-
06/21/01	0.015	0.008	0.001	0.001	0.001	0.0110	-
03/14/02	0.008	0.017	0.001	0.001	0.001	0.0200	-
06/27/02	0.019	0.011	0.001	0.001	0.001	0.0140	-
09/27/02	0.029	0.007	0.003	0.001	0.001	0.0120	-
12/19/02	0.009	0.001	0.001	0.001	0.001	0.0040	-
March-03	CA VIA MPE ENDED						
03/24/03	0.003	0.001	0.008	0.001	0.002	0.0111	-
01/29/07	<0.001	0.0033	<0.001	<0.001	<0.001	0.0033	-
May-07	CA VIA MEME STARTED						
07/24/07	0.0005	0.0020	0.0005	0.0005	0.0005	0.0035	-
04/09/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
07/14/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
10/07/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
01/13/09	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
03/07/11	<0.001	0.0047	<0.001	0.0022	<0.001	0.0069	-
May-11	CA VIA MEME ENDED						
05/25/11	<0.001	0.0177	<0.001	0.0032	<0.001	0.0209	-
06/23/14	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
05/20/16	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
05/17/17	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
09/12/17	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
01/04/18	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
05/08/18	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
05/07/20	<0.0010	0.1631	<0.0010	<0.0010	0.0017	0.1648	0.0029
GRP SSTLs:	0.103	0.0258	5.16	3.61	51.6	-	0.103
Inhalation SSTLs:	5740	1.94	111	169	93.8	-	11.1

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	L-2		
INSTALLATION DATE:	04/21/92	WELL DEPTH (FT BTOC):	13.0	SCREEN LENGTH (FT):	5	CASING ELEV (FT ABOVE MSL):	507.95	WELL TYPE: DIAMETER (IN):	-

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY				
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
01/06/99	7.33	500.62	-	-
03/23/99	5.54	502.41	-	-
08/11/99	5.43	502.52	-	-
10/14/99	6.92	501.03	-	-
03/22/00	6.00	501.95	-	-
06/22/00	7.19	500.76	-	-
09/26/00	8.30	499.65	-	-
12/20/00	7.48	500.47	-	-
03/21/01	3.10	504.85	-	-
06/21/01	5.20	502.75	-	-
03/14/02	6.14	501.81	-	-
06/27/02	6.70	501.25	-	-
09/27/02	8.27	499.68	-	-
12/19/02	6.95	501.00	-	-
03/24/03	3.42	504.53	-	-
01/29/07	5.54	502.41	-	-
07/24/07	7.73	500.22	-	-
04/09/08	7.34	500.61	-	-
07/14/08	6.75	501.20	-	-
10/07/08	7.18	500.77	-	-
01/13/09	6.38	501.57	-	-
03/07/11	8.33	499.62	TRACE	-
05/25/11	6.45	501.50	TRACE	-
06/23/14	4.19	503.76	-	-
05/17/17	7.14	500.81	-	-
09/12/17	4.68	503.27	-	-
01/04/18	5.71	502.24	-	4.2
05/08/18	4.89	503.06	-	4.0
05/23/19	4.91	503.04	-	4.0
05/07/20	3.06	504.89	-	5.0

INTRINSIC GROUNDWATER DATA SUMMARY			
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
01/06/99	-	-	-
03/23/99	-	-	-
08/11/99	-	-	-
10/14/99	-	-	-
03/22/00	-	-	-
06/22/00	-	-	-
09/26/00	-	-	-
12/20/00	-	-	-
03/21/01	-	-	-
06/21/01	-	-	-
03/14/02	-	-	-
06/27/02	-	-	-
09/27/02	-	-	-
12/19/02	-	-	-
03/24/03	-	-	-
01/29/07	-	-	-
07/24/07	-	-	-
04/09/08	-	-	-
07/14/08	-	-	-
10/07/08	-	-	-
01/13/09	-	-	-
03/07/11	-	-	-
05/25/11	-	-	-
06/23/14	-	-	-
05/17/17	-	-	-
09/12/17	-	-	-
01/04/18	2.60	6.6	76
05/08/18	3.41	6.0	92
05/23/19	1.89	5.7	69
05/07/20	4.09	6.1	143

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	L-2		
INSTALLATION DATE:	04/21/92	WELL DEPTH (FT BTOC):	13.0	SCREEN LENGTH (FT):	5	CASING ELEV (FT ABOVE MSL):	507.95	WELL TYPE: DIAMETER (IN):	-

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
03/21/01	0.439	7.396	5.874	0.766	3.261	17.297	-
06/21/01	0.288	4.546	4.650	0.673	2.848	12.717	-
03/14/02	0.129	2.282	2.692	0.341	1.331	6.646	-
06/27/02	0.275	4.372	5.504	0.667	2.954	13.497	-
09/27/02	0.207	4.895	5.096	0.652	2.790	13.433	-
12/19/02	0.089	1.146	1.282	0.187	0.800	3.415	-
March-03	CA VIA MPE ENDED						
03/24/03	0.050	2.110	1.570	0.089	0.706	4.475	-
01/29/07	<0.01667	7.9241	0.2683	0.6388	1.9866	10.8178	-
May-07	CA VIA MEME STARTED						
07/24/07	0.0313	10.8532	0.9373	0.7767	3.5607	16.1279	-
04/09/08	<0.00625	0.8483	0.3047	0.0804	0.1823	1.4157	-
07/14/08	<0.001	6.8984	6.7442	0.6520	2.8882	17.1828	-
10/07/08	<0.02	3.8217	3.4826	0.2468	1.7859	9.3370	-
01/13/09	<0.0333	2.8171	1.2956	0.0859	1.3735	5.5721	-
03/07/11	<0.02	10.7230	7.5555	0.1660	6.0218	24.4663	-
May-11	CA VIA MEME ENDED						
05/25/11	<0.1	8.5992	10.0577	0.8520	6.2400	25.7489	-
06/23/14	<0.1	8.4637	15.9715	1.4635	8.3232	34.2219	0.5679
05/20/16	NOT SAMPLED						
05/17/17	<0.1	5.4503	10.4333	1.0424	6.3079	23.2339	0.4345
09/12/17	<0.1000	8.1647	13.2410	0.8389	7.1227	29.3673	0.3947
01/04/18	<0.0100	0.5516	0.8395	<0.0100	0.9601	2.3512	0.0771
05/08/18	<0.0010	1.9914	4.8491	0.1978	2.2501	9.2884	0.1964
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	<0.0500	4.3202	12.0957	1.3298	6.8273	24.5730	0.5221
05/07/20	<0.0500	0.9143	2.4332	0.2585	1.3795	4.9854	0.1747
GRP SSTLs:	0.0986	0.0247	4.93	3.45	49.3	-	0.0986
Inhalation SSTLs:	5740	1.94	111	169	93.8	-	11.1

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	L-3		
INSTALLATION DATE:	03/20/92	WELL DEPTH (FT BTOC):	18.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	509.90	WELL TYPE: DIAMETER (IN):	-

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY				
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
01/06/99	8.78	501.12	-	-
03/23/99	6.57	503.33	-	-
08/11/99	6.69	503.21	-	-
10/14/99	7.96	501.94	-	-
03/22/00	6.95	502.95	-	-
06/22/00	8.50	501.40	-	-
09/26/00	8.30	501.60	-	-
12/20/00	7.48	502.42	-	-
03/21/01	3.75	506.15	-	-
06/21/01	6.28	503.62	-	-
03/14/02	7.17	502.73	-	-
06/27/02	8.02	501.88	-	-
09/27/02	9.84	500.06	-	-
12/19/02	8.18	501.72	-	-
03/24/03	4.19	505.71	-	-
01/29/07	6.88	503.02	-	-
07/24/07	9.19	500.71	-	-
04/09/08	6.67	503.23	-	-
07/14/08	8.06	501.84	-	-
10/07/08	8.47	501.43	-	-
01/13/09	6.81	503.09	-	-
03/07/11	8.28	501.62	-	-
05/25/11	7.84	502.06	-	-
06/23/14	5.34	504.56	-	-
05/20/16	4.83	505.07	-	-
05/17/17	6.01	503.89	-	-
09/12/17	5.42	504.48	-	-
01/04/18	7.00	502.90	-	2.7
05/08/18	6.12	503.78	-	2.0
05/23/19	4.68	505.22	-	3.0
05/07/20	4.21	505.69	-	3.0

INTRINSIC GROUNDWATER DATA SUMMARY			
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
01/06/99	-	-	-
03/23/99	-	-	-
08/11/99	-	-	-
10/14/99	-	-	-
03/22/00	-	-	-
06/22/00	-	-	-
09/26/00	-	-	-
12/20/00	-	-	-
03/21/01	-	-	-
06/21/01	-	-	-
03/14/02	-	-	-
06/27/02	-	-	-
09/27/02	-	-	-
12/19/02	-	-	-
03/24/03	-	-	-
01/29/07	-	-	-
07/24/07	-	-	-
04/09/08	-	-	-
07/14/08	-	-	-
10/07/08	-	-	-
01/13/09	-	-	-
03/07/11	-	-	-
05/25/11	-	-	-
06/23/14	2.13	6.5	103
05/20/16	2.42	5.8	157
05/17/17	3.68	6.0	196
09/12/17	-	-	-
01/04/18	7.90	7.4	9
05/08/18	3.87	6.3	139
05/23/19	2.61	5.9	182
05/07/20	3.59	5.9	139

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	L-3		
INSTALLATION DATE:	03/20/92	WELL DEPTH (FT BTOC):	18.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	509.90	WELL TYPE: DIAMETER (IN):	- -

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
07/13/99	0.001	0.006	0.001	0.001	0.001	0.009	-
03/22/00	0.001	0.001	0.001	0.001	0.001	0.004	-
09/26/00	0.001	0.001	0.001	0.001	0.001	0.004	-
12/20/00	0.001	0.002	0.001	0.001	0.001	0.005	-
06/21/01	0.001	0.003	0.001	0.001	0.001	0.006	-
06/27/02	0.001	0.003	0.001	0.001	0.001	0.006	-
12/19/02	0.001	0.001	0.001	0.001	0.001	0.004	-
March-03	CA VIA MPE ENDED						
01/29/07	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
May-07	CA VIA MEME STARTED						
07/24/07	0.005	0.025	0.005	0.005	0.005	0.040	-
04/09/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
07/14/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
10/07/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
01/13/09	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
03/07/11	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
May-11	CA VIA MEME ENDED						
05/25/11	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
06/23/14	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
05/20/16	<0.001	<0.001	0.0018	<0.001	0.0035	0.0053	<0.001
05/17/17	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
09/12/17	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
01/04/18	<0.0010	<0.0010	<0.0010	<0.0010	0.0018	0.0018	0.0046
05/08/18	<0.0010	<0.0010	<0.0010	<0.0010	0.0016	0.0016	0.0012
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
05/07/20	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
GRP SSTLs:	-	-	-	-	-	-	-
Inhalation SSTLs:	5740	1.94	111	169	93.8	-	11.1

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	L-4		
INSTALLATION DATE:	04/22/92	WELL DEPTH (FT BTOC):	20.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	517.39	WELL TYPE: DIAMETER (IN):	- -
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

POTENTIOMETRIC ELEVATION SUMMARY

[illegible]

INTRINSIC GROUNDWATER DATA SUMMARY

[illegible]

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	L-4		
INSTALLATION DATE:	04/22/92	WELL DEPTH (FT BTOC):	20.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	517.39	WELL TYPE:	-
								DIAMETER (IN):	-

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
06/22/00	NOT SAMPLED						
09/26/00	0.0010	0.0010	0.0010	0.0010	0.0010	0.0040	-
12/20/00	0.0010	0.0010	0.0010	0.0010	0.0010	0.0040	-
06/21/01	0.0010	0.0040	0.0010	0.0010	0.0010	0.0070	-
03/14/02	NOT SAMPLED						
06/27/02	0.0010	0.0020	0.0010	0.0010	0.0010	0.0050	-
09/27/02	NOT SAMPLED						
12/19/02	0.0010	0.0010	0.0010	0.0010	0.0010	0.0040	-
March-03	CA VIA MPE ENDED						
03/24/03	NOT SAMPLED						
01/29/07	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
May-07	CA VIA MEME STARTED						
07/24/07	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
04/09/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
07/14/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
10/07/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
01/13/09	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
03/07/11	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
May-11	CA VIA MEME ENDED						
05/25/11	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
06/23/14	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
05/20/16	<0.001	<0.001	0.0049	<0.001	0.0096	0.0145	0.0050
05/17/17	NOT SAMPLED						
09/12/17	NOT SAMPLED						
01/04/18	NOT SAMPLED						
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	NOT SAMPLED						
05/07/20	NOT SAMPLED						
GRP SSTLs:	-	-	-	-	-	-	-
Inhalation SSTLs:	5740	1.94	111	169	93.8	-	11.1

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	L-5		
INSTALLATION DATE:	03/20/92	WELL DEPTH (FT BTOC):	18.0	SCREEN LENGTH (FT):	8	CASING ELEV (FT ABOVE MSL):	511.17	WELL TYPE: DIAMETER (IN):	-

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY				
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
07/14/08	11.02	500.15	-	-
10/07/08	11.25	500.66	0.93	-
01/13/09	10.14	502.10	1.34	-
03/07/11	11.39	500.39	0.76	-
05/25/11	9.92	501.35	0.13	-
06/23/14	10.35	503.98	3.95	-
05/20/16	9.20	504.07	2.62	-
05/17/17	9.48	503.12	1.79	-
09/12/17	8.75	502.87	0.56	-
01/04/18	9.88	501.59	0.37	3.5
04/12/18	8.16	503.27	0.32	2.0
05/08/18	13.52	499.19	1.92	1.0
07/05/18	7.95	503.24	0.03	1.0
07/20/18	8.21	503.29	0.41	0.41
08/07/18	8.27	503.34	0.55	0.55
08/21/18	8.55	503.10	0.60	0.6
09/04/18	8.52	502.99	0.42	0.42
09/18/18	9.78	501.56	0.21	9.0
10/04/18	9.04	502.58	0.56	0.56
10/18/18	9.08	502.15	0.08	9.0
11/20/18	9.03	502.19	0.06	11.0
11/06/18	9.75	501.82	0.50	10.0
11/20/18	9.03	502.19	0.06	11.0
12/06/18	8.27	502.90	-	0.0
12/18/18	7.94	503.58	0.44	4.5
01/10/19	6.30	504.96	0.11	10.0
01/24/19	6.95	504.30	0.10	5.0
02/12/19	6.35	504.82	-	11.0
02/26/19	6.95	504.27	0.06	10.0
05/23/19	7.36	503.95	0.17	4.0
05/07/20	6.74	505.07	0.80	4.0

INTRINSIC GROUNDWATER DATA SUMMARY			
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
07/14/08	-	-	-
10/07/08	FREE PRODUCT (0.93 FT)		
01/13/09	FREE PRODUCT (1.34 FT)		
03/07/11	FREE PRODUCT (0.76 FT)		
05/25/11	FREE PRODUCT (0.13 FT)		
06/23/14	FREE PRODUCT (3.95 FT)		
05/20/16	FREE PRODUCT (2.62 FT)		
05/17/17	FREE PRODUCT (1.79 FT)		
09/12/17	FREE PRODUCT (0.56 FT)		
01/04/18	FREE PRODUCT (0.37 FT)		
04/12/18	FREE PRODUCT (0.32 FT)		
05/08/18	FREE PRODUCT (1.92 FT)		
07/05/18	FREE PRODUCT (0.03 FT)		
07/20/18	FREE PRODUCT (0.41 FT)		
08/07/18	FREE PRODUCT (0.55 FT)		
08/21/18	FREE PRODUCT (0.6 FT)		
09/04/18	FREE PRODUCT (0.42 FT)		
09/18/18	0.44	7.50	14.0
10/04/18	FREE PRODUCT (0.56 FT)		
10/18/18	FREE PRODUCT (0.08 FT)		
11/20/18	FREE PRODUCT (0.06 FT)		
11/06/18	FREE PRODUCT (0.50 FT)		
11/20/18	FREE PRODUCT (0.06 FT)		
12/06/18	-	-	-
12/18/18	FREE PRODUCT (0.44 FT)		
01/10/19	FREE PRODUCT (0.11 FT)		
01/24/19	FREE PRODUCT (0.10 FT)		
02/12/19	-	-	-
02/26/19	FREE PRODUCT (0.06 FT)		
05/23/19	FREE PRODUCT (0.17 FT)		
05/07/20	FREE PRODUCT (0.80 FT)		

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	L-5		
INSTALLATION DATE:	03/20/92	WELL DEPTH (FT BTOC):	18.0	SCREEN LENGTH (FT):	8	CASING ELEV (FT ABOVE MSL):	511.17	WELL TYPE:	-
								DIAMETER (IN):	-

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
03/21/01	NOT SAMPLED - FREE PRODUCT (5.62 FT)						
06/21/01	NOT SAMPLED - FREE PRODUCT (4.08 FT)						
03/14/02	NOT SAMPLED - FREE PRODUCT (1.89 FT)						
06/27/02	NOT SAMPLED - FREE PRODUCT (2.40 FT)						
09/27/02	NOT SAMPLED - FREE PRODUCT (1.59 FT)						
12/19/02	NOT SAMPLED - FREE PRODUCT (1.53 FT)						
March-03	CA VIA MPE ENDED						
03/24/03	NOT SAMPLED - FREE PRODUCT (5.04 FT)						
10/18/04	NOT SAMPLED						
01/29/07	NOT SAMPLED - FREE PRODUCT (2.04 FT)						
May-07	CA VIA MEME STARTED						
07/24/07	NOT SAMPLED - FREE PRODUCT (1.96 FT)						
04/09/08	NOT SAMPLED - FREE PRODUCT (2.09 FT)						
07/14/08	NOT SAMPLED						
10/07/08	NOT SAMPLED - FREE PRODUCT (0.93 FT)						
01/13/09	NOT SAMPLED - FREE PRODUCT (1.34 FT)						
03/07/11	<0.2	11.7299	25.3128	1.9239	13.1768	52.1434	-
May-11	CA VIA MEME ENDED						
05/25/11	<0.25	11.1788	40.6163	7.4826	45.8658	105.1435	-
06/23/14	NOT SAMPLED - FREE PRODUCT (3.95 FT)						
05/20/16	<0.25	8.7886	23.2676	1.5885	12.1259	45.7706	0.7000
05/17/17	NOT SAMPLED - FREE PRODUCT (1.79 FT)						
09/12/17	NOT SAMPLED - FREE PRODUCT (0.56 FT)						
01/04/18	<0.2500	5.0416	25.4565	2.4482	18.1516	51.0979	0.9487
09/18/18	<0.2500	6.0139	19.1404	2.8700	19.1424	47.1667	1.8974
01/10/19	<0.2000	5.4024	20.6151	1.5932	11.3185	38.9291	0.6892
02/12/19	NOT SAMPLED						
05/23/19	NOT SAMPLED - FREE PRODUCT (0.17 FT)						
05/07/20	<0.2000	6.7537	20.4004	1.6507	11.9573	40.7620	0.8983
GRP SSTLs:	-	-	-	-	-	-	-
Inhalation SSTLs:	5740	1.94	111	169	93.8	-	11.1

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	L-7		
INSTALLATION DATE:	05/18/93	WELL DEPTH (FT BTOC):	19.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	512.27	WELL TYPE: DIAMETER (IN):	-

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY				
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
01/06/99	11.29	500.98	-	-
03/23/99	9.19	503.08	-	-
08/11/99	9.09	503.18	-	-
10/14/99	10.56	501.71	-	-
03/22/00	9.72	502.55	-	-
06/22/00	10.85	501.42	-	-
09/26/00	17.16	495.11	-	-
12/20/00	11.46	500.81	-	-
03/21/01	6.49	505.78	-	-
06/21/01	8.80	503.47	-	-
03/14/02	9.91	502.36	-	-
06/27/02	10.38	501.89	-	-
09/27/02	12.14	500.13	-	-
12/19/02	10.87	501.40	-	-
03/24/03	6.94	505.33	-	-
01/29/07	9.34	502.93	-	-
07/24/07	11.46	500.81	-	-
04/09/08	9.44	502.83	-	-
07/14/08	10.43	501.84	-	-
10/07/08	10.82	501.45	-	-
01/13/09	9.53	502.74	-	-
03/07/11	11.18	501.09	-	-
05/25/11	10.10	502.17	-	-
06/23/14	7.72	504.55	-	-
05/20/16	7.27	505.00	-	-
05/17/17	8.47	503.80	-	-
09/12/17	8.43	503.84	-	-
01/04/18	9.52	502.75	-	3.4
05/08/18	8.52	503.75	-	3.0
05/23/19	6.97	505.30	-	4.0
05/07/20	6.46	505.81	-	4.0

INTRINSIC GROUNDWATER DATA SUMMARY			
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
01/06/99	-	-	-
03/23/99	-	-	-
08/11/99	-	-	-
10/14/99	-	-	-
03/22/00	-	-	-
06/22/00	-	-	-
09/26/00	-	-	-
12/20/00	-	-	-
03/21/01	-	-	-
06/21/01	-	-	-
03/14/02	-	-	-
06/27/02	-	-	-
09/27/02	-	-	-
12/19/02	-	-	-
03/24/03	-	-	-
01/29/07	-	-	-
07/24/07	-	-	-
04/09/08	-	-	-
07/14/08	-	-	-
10/07/08	-	-	-
01/13/09	-	-	-
03/07/11	-	-	-
05/25/11	-	-	-
06/23/14	4.88	6.3	84
05/20/16	2.32	5.9	161
05/17/17	-	-	-
09/12/17	-	-	-
01/04/18	7.11	6.7	160
05/08/18	3.62	6.3	107
05/23/19	3.27	6.2	157
05/07/20	2.68	5.9	132

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	L-7		
INSTALLATION DATE:	05/18/93	WELL DEPTH (FT BTOC):	19.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	512.27	WELL TYPE:	-
								DIAMETER (IN):	-

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
03/21/01	NOT SAMPLED						
06/21/01	0.001	0.003	0.001	0.001	0.001	0.006	-
03/14/02	NOT SAMPLED						
06/27/02	0.001	0.003	0.001	0.001	0.001	0.006	-
09/27/02	NOT SAMPLED						
12/19/02	0.001	0.001	0.001	0.001	0.001	0.004	-
March-03	CA VIA MPE ENDED						
03/24/03	NOT SAMPLED						
01/29/07	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
May-07	CA VIA MEME STARTED						
07/24/07	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
04/09/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
07/14/08	<0.001	0.0530	0.0083	0.0028	0.1332	0.197	-
10/07/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
01/13/09	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
03/07/11	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
May-11	CA VIA MEME ENDED						
05/25/11	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
06/23/14	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
05/20/16	<0.001	<0.001	<0.001	<0.001	0.0016	0.002	0.0011
05/17/17	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
09/12/17	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
01/04/18	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
05/08/18	<0.0010	<0.0010	<0.0010	<0.0010	0.0020	0.002	0.0015
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
05/07/20	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
GRP SSTLs:	-	-	-	-	-	-	-
Inhalation SSTLs:	5740	1.94	111	169	93.8	-	11.1

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	L-8		
INSTALLATION DATE:	05/18/93	WELL DEPTH (FT BTOC):	18.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	507.46	WELL TYPE: DIAMETER (IN):	- -
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

POTENTIOMETRIC ELEVATION SUMMARY

[illegible]

INTRINSIC GROUNDWATER DATA SUMMARY

[illegible]

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	L-8		
INSTALLATION DATE:	05/18/93	WELL DEPTH (FT BTOC):	18.0	SCREEN LENGTH (FT):	10	CASING ELEV (FT ABOVE MSL):	507.46	WELL TYPE:	-
								DIAMETER (IN):	-

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
09/26/00	0.001	0.001	0.001	0.001	0.001	0.004	-
12/20/00	0.001	0.001	0.001	0.001	0.001	0.004	-
03/21/01	0.001	0.003	0.001	0.001	0.001	0.006	-
06/21/01	0.001	0.003	0.001	0.001	0.001	0.006	-
03/14/02	0.001	0.004	0.001	0.001	0.001	0.007	-
06/27/02	0.001	0.003	0.001	0.001	0.001	0.006	-
09/27/02	0.001	0.001	0.001	0.001	0.001	0.004	-
12/19/02	0.001	0.001	0.001	0.001	0.001	0.004	-
March-03	CA VIA MPE ENDED						
03/24/03	0.001	0.001	0.001	0.001	0.001	0.004	-
01/29/07	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
May-07	CA VIA MEME STARTED						
07/24/07	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
04/09/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
07/14/08	<0.001	<0.001	<0.001	<0.001	0.0012	0.001	-
10/07/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
01/13/09	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
03/07/11	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
May-11	CA VIA MEME ENDED						
05/25/11	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
06/23/14	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
05/20/16	NOT SAMPLED						
05/17/17	NOT SAMPLED						
09/12/17	NOT SAMPLED						
01/04/18	NOT SAMPLED						
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	NOT SAMPLED						
05/07/20	NOT SAMPLED						
GRP SSTLs:	-	-	-	-	-	-	-
Inhalation SSTLs:	5740	1.94	111	169	93.8	-	11.1

Monitoring Point Data Summary Table									
SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	L-9		
INSTALLATION DATE:	-	WELL DEPTH (FT BTOC):	-	SCREEN LENGTH (FT):	-	CASING ELEV (FT ABOVE MSL):	503.67	WELL TYPE: DIAMETER (IN):	- -
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

[illegible]

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	L-9		
INSTALLATION DATE:	-	WELL DEPTH (FT BTOC):	-	SCREEN LENGTH (FT):	-	CASING ELEV (FT ABOVE MSL):	503.67	WELL TYPE: DIAMETER (IN):	-

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
04/07/94	-	1.4800	0.1070	0.3590	0.4770	2.4230	-
June-96	CA VIA MPE STARTED						
06/24/98	0.7700	5.1000	0.9500	4.0000	2.8000	12.8500	-
10/01/98	0.1000	2.9000	0.8600	0.4000	1.4000	5.5600	-
01/06/99	0.0200	0.7800	0.2100	0.0990	0.3600	1.4490	-
03/23/99	0.0470	1.8460	1.0590	0.3050	1.1980	4.4080	-
07/13/99	0.4270	1.8950	0.4390	0.3620	1.1850	3.8810	-
10/14/99	0.1970	1.6960	0.3650	0.4190	1.3730	3.8530	-
03/22/00	0.0990	1.5530	0.3060	0.2530	1.0670	3.1790	-
06/22/00	0.2000	2.3430	0.2530	0.4740	1.7310	4.8010	-
09/26/00	0.1420	1.9640	0.2160	0.4490	1.4740	4.1030	-
12/20/00	0.0500	0.5820	0.0570	0.1300	0.3770	1.1460	-
03/21/01	0.0010	0.0060	0.0010	0.0010	0.0020	0.0100	-
06/21/01	0.0970	0.8020	0.1420	0.1890	0.6490	1.7820	-
03/14/02	0.0380	0.4950	0.1350	0.1030	0.3220	1.0550	-
06/27/02	0.0430	0.3760	0.2030	0.0930	0.3440	1.0160	-
09/27/02	0.0220	0.1770	0.1180	0.0490	0.1550	0.4990	-
12/19/02	0.1090	1.1420	0.1100	0.1420	0.4160	1.8100	-
3/1/2003	CA VIA MPE ENDED						
03/24/03	0.0250	1.0300	0.0950	0.1200	0.3900	1.6350	-
01/29/07	<0.0025	0.3428	0.0184	0.0408	0.1522	0.5542	-
5/7/2007	CA VIA MEME STARTED						
07/24/07	0.0013	1.9743	0.0745	0.2375	0.6940	2.9803	-
WELL DESTROYED							
GRP SSTLs:	-	-	-	-	-	-	-
Inhalation SSTLs:	5740	1.94	111	169	93.8	-	11.1

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	L-10		
INSTALLATION DATE:	-	WELL DEPTH (FT BTOC):	-	SCREEN LENGTH (FT):	-	CASING ELEV (FT ABOVE MSL):	503.08	WELL TYPE: DIAMETER (IN):	-

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY				
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
01/06/99	3.49	499.59	-	-
03/23/99	2.21	500.87	-	-
08/11/99	2.47	500.61	-	-
10/14/99	3.74	499.34	-	-
03/22/00	2.87	500.21	-	-
06/22/00	4.15	498.93	-	-
09/26/00	4.79	498.29	-	-
12/20/00	4.05	499.03	-	-
03/21/01	0.72	502.36	-	-
06/21/01	2.34	500.74	-	-
03/14/02	2.88	500.20	-	-
06/27/02	3.55	499.53	-	-
09/27/02	4.56	498.52	-	-
12/19/02	3.47	499.61	-	-
03/24/03	1.01	502.07	-	-
01/29/07	4.32	498.76	-	-
07/24/07	4.46	498.62	-	-
04/09/08	3.36	499.72	-	-
07/14/08	3.96	499.12	-	-
10/07/08	5.75	497.33	-	-
01/13/09	5.02	498.06	-	-
03/07/11	6.52	496.56	-	-
05/25/11	3.26	499.82	-	-
06/23/14	1.46	501.62	-	-
05/20/16	0.00	503.08	-	-
05/17/17	1.27	501.81	-	-
01/04/18	3.83	499.25	-	6.4
05/08/18	1.79	501.29	-	5.0
05/07/20	4.32	498.76	-	5.0

INTRINSIC GROUNDWATER DATA SUMMARY			
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
01/06/99	-	-	-
03/23/99	-	-	-
08/11/99	-	-	-
10/14/99	-	-	-
03/22/00	-	-	-
06/22/00	-	-	-
09/26/00	-	-	-
12/20/00	-	-	-
03/21/01	-	-	-
06/21/01	-	-	-
03/14/02	-	-	-
06/27/02	-	-	-
09/27/02	-	-	-
12/19/02	-	-	-
03/24/03	-	-	-
01/29/07	-	-	-
07/24/07	-	-	-
04/09/08	-	-	-
07/14/08	-	-	-
10/07/08	-	-	-
01/13/09	-	-	-
03/07/11	-	-	-
05/25/11	-	-	-
06/23/14	3.99	5.5	134
05/20/16	2.87	6.3	212
05/17/17	-	-	-
01/04/18	7.03	6.4	159
05/08/18	4.34	6.2	119
05/07/20	3.10	5.6	117

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	L-10		
INSTALLATION DATE:	-	WELL DEPTH (FT BTOC):	-	SCREEN LENGTH (FT):	-	CASING ELEV (FT ABOVE MSL):	503.08	WELL TYPE: DIAMETER (IN):	-
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
03/21/01	0.0010	0.0020	0.0010	0.0010	0.0010	0.0050	-
06/21/01	0.0010	0.0080	0.0010	0.0010	0.0050	0.0150	-
03/14/02	0.0010	0.0020	0.0010	0.0010	0.0010	0.0050	-
06/27/02	0.0010	0.0030	0.0010	0.0010	0.0010	0.0060	-
09/27/02	0.0010	0.0010	0.0010	0.0010	0.0010	0.0040	-
12/19/02	0.0010	0.0010	0.0010	0.0010	0.0010	0.0040	-
March-03	CA VIA MPE ENDED						
03/24/03	0.0010	0.0010	0.0010	0.0010	0.0010	0.0040	-
01/29/07	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
May-07	CA VIA MEME STARTED						
07/24/07	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
04/09/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
07/14/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
10/07/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
01/13/09	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
03/07/11	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
May-11	CA VIA MEME ENDED						
05/25/11	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
06/23/14	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
05/20/16	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
05/17/17	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
09/12/17	NOT SAMPLED						
01/04/18	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
05/08/18	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	NOT SAMPLED						
05/07/20	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
GRP SSTLs:	0.046	0.0115	2.3	1.61	23	-	0.046
Inhalation SSTLs:	5740	1.94	111	169	93.8	-	11.1

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	OW-1		
INSTALLATION DATE:	-	WELL DEPTH (FT BTOC):	-	SCREEN LENGTH (FT):	-	CASING ELEV (FT ABOVE MSL):	503.55	WELL TYPE: DIAMETER (IN):	-
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

POTENTIOMETRIC ELEVATION SUMMARY				
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
01/06/99	3.74	499.81	-	-
03/23/99	2.39	501.16	-	-
08/11/99	2.57	500.98	-	-
10/14/99	4.05	499.50	-	-
03/22/00	3.08	500.47	-	-
06/22/00	4.25	499.30	-	-
09/26/00	4.95	498.60	-	-
12/20/00	4.14	499.41	-	-
03/21/01	0.57	502.98	-	-
06/21/01	2.49	501.06	-	-
03/14/02	3.15	500.40	-	-
06/27/02	3.68	499.87	-	-
09/27/02	4.82	498.73	-	-
12/19/02	3.69	499.86	-	-
03/24/03	0.99	502.56	-	-
01/29/07	2.43	501.12	-	-
07/24/07	4.45	499.10	-	-
04/09/08	2.74	500.81	-	-
07/14/08	3.62	499.93	-	-
10/07/08	3.92	499.63	-	-
01/13/09	2.45	501.10	-	-
03/07/11	3.77	499.78	-	-
05/25/11	3.36	500.19	-	-
06/23/14	1.34	502.21	-	-
05/20/16	0.00	503.55	-	-
05/17/17	1.62	501.93	-	-
09/12/17	0.96	502.59	-	-
01/04/18	2.25	501.30	-	6.8
05/08/18	1.92	501.63	-	5.0
05/23/19	0.68	502.87	-	5.0
05/07/20	0.73	502.82	-	5.0

INTRINSIC GROUNDWATER DATA SUMMARY			
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
01/06/99	-	-	-
03/23/99	-	-	-
08/11/99	-	-	-
10/14/99	-	-	-
03/22/00	-	-	-
06/22/00	-	-	-
09/26/00	-	-	-
12/20/00	-	-	-
03/21/01	-	-	-
06/21/01	-	-	-
03/14/02	-	-	-
06/27/02	-	-	-
09/27/02	-	-	-
12/19/02	-	-	-
03/24/03	-	-	-
01/29/07	-	-	-
07/24/07	-	-	-
04/09/08	-	-	-
07/14/08	-	-	-
10/07/08	-	-	-
01/13/09	-	-	-
03/07/11	-	-	-
05/25/11	-	-	-
06/23/14	-	-	-
05/20/16	-	-	-
05/17/17	-	-	-
09/12/17	-	-	-
01/04/18	6.27	6.9	143
05/08/18	3.38	6.4	137
05/23/19	2.73	5.9	121
05/07/20	5.10	5.7	201

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	OW-1		
INSTALLATION DATE:	-	WELL DEPTH (FT BTOC):	-	SCREEN LENGTH (FT):	-	CASING ELEV (FT ABOVE MSL):	503.55	WELL TYPE: DIAMETER (IN):	-
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
12/20/00	0.1100	1.8500	1.0810	0.2020	0.6400	3.7730	-
03/21/01	0.1680	2.3420	1.5150	0.2880	0.9950	5.1400	-
06/21/01	0.1670	2.6560	1.7000	0.3190	1.1170	5.7920	-
03/14/02	0.0730	2.0750	1.5850	0.2060	0.9130	4.7790	-
06/27/02	0.2160	3.3480	2.2430	0.3320	1.4230	7.3460	-
09/27/02	0.1590	3.2550	2.2620	0.3310	1.4630	7.3110	-
12/19/02	0.2310	1.5890	1.0350	0.6550	3.4240	6.7030	-
March-03	CA VIA MPE ENDED						
03/24/03	0.1250	4.7000	3.0200	0.2770	1.2510	9.2480	-
01/29/07	<0.02	4.1560	1.7431	0.3710	1.6309	7.9010	-
May-07	CA VIA MEME STARTED						
07/24/07	0.0100	2.1197	0.5678	0.1543	0.6370	3.4788	-
04/09/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
07/14/08	<0.001	0.0053	0.0015	<0.001	0.0032	0.0100	-
10/07/08	<0.001	0.8164	0.2080	0.0604	0.2040	1.2888	-
01/13/09	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
03/07/11	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
May-11	CA VIA MEME ENDED						
05/25/11	0.0017	1.4353	0.3161	0.1330	0.2988	2.1832	-
06/23/14	<0.0025	0.2892	0.0790	0.0088	0.1486	0.5256	0.0091
05/20/16	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
05/17/17	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
09/12/17	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
01/04/18	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
05/08/18	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
05/07/20	0.0020	3.7309	1.9328	0.5231	1.2899	7.4766	0.2248
GRP SSTLs:	-	-	-	-	-	-	-
Inhalation SSTLs:	5740	1.94	111	169	93.8	-	11.1

Monitoring Point Data Summary Table									
SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	OW-2		
INSTALLATION DATE:	-	WELL DEPTH (FT BTOC):	-	SCREEN LENGTH (FT):	-	CASING ELEV (FT ABOVE MSL):	502.35	WELL TYPE: DIAMETER (IN):	- -
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

[illegible][illegible]

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	OW-2		
INSTALLATION DATE:	-	WELL DEPTH (FT BTOC):	-	SCREEN LENGTH (FT):	-	CASING ELEV (FT ABOVE MSL):	502.35	WELL TYPE: DIAMETER (IN):	-
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
04/07/94	-	5.5300	0.2230	2.6000	1.0600	9.4130	-
June-96	CA VIA MPE						
03/12/97	0.8200	2.8000	0.7100	0.2300	1.7000	5.4400	-
06/05/97	-	6.1300	0.3630	3.0500	1.3700	10.9130	-
09/11/97	0.5000	7.7000	0.5000	4.5000	1.1000	13.8000	-
12/23/97	0.2000	6.8000	0.4900	6.1000	2.4000	15.7900	-
03/16/98	0.5000	6.5000	0.5000	3.9000	2.6000	13.5000	-
06/24/98	0.6800	6.5000	0.2500	4.7000	1.6000	13.0500	-
10/01/98	0.2000	5.3000	3.7000	0.2000	1.7000	10.9000	-
01/06/99	0.1000	7.6000	4.4000	0.5200	2.1000	14.6200	-
03/23/99	0.0250	5.1040	3.7270	0.5020	1.9080	11.2410	-
07/13/99	1.4040	4.1080	1.8350	0.3000	0.9970	7.2400	-
WELL DESTROYED							
GRP SSTLs:	-	-	-	-	-		-
Inhalation SSTLs:	5740	1.94	111	169	93.8		11.1

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	OW-3		
INSTALLATION DATE:	-	WELL DEPTH (FT BTOC):	-	SCREEN LENGTH (FT):	-	CASING ELEV (FT ABOVE MSL):	502.40	WELL TYPE: DIAMETER (IN):	-
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

POTENTIOMETRIC ELEVATION SUMMARY				
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
03/23/99	3.30	499.10	-	-
08/11/99	3.47	498.93	-	-
10/14/99	5.08	497.32	-	-
03/22/00	3.98	498.42	-	-
06/22/00	4.72	497.68	-	-
09/26/00	5.30	497.10	-	-
12/20/00	4.59	497.81	-	-
03/21/01	0.83	501.57	-	-
06/21/01	3.57	498.83	-	-
03/14/02	4.12	498.28	-	-
06/27/02	4.30	498.10	-	-
09/27/02	4.88	497.52	-	-
12/19/02	4.26	498.14	-	-
03/24/03	2.50	499.90	-	-
07/24/07	4.91	497.49	-	-
04/09/08	3.61	498.79	-	-
07/14/08	4.42	497.98	-	-
10/07/08	4.60	497.80	-	-
03/07/11	4.12	498.28	-	-
05/25/11	4.11	498.29	-	-
06/23/14	2.44	499.96	-	-
05/20/16	2.11	500.29	-	-
05/17/17	2.68	499.72	-	-
09/12/17	1.61	500.79	-	-
01/04/18	3.08	499.32	-	6.8
05/08/18	2.79	499.61	-	2.0
05/23/19	1.78	500.62	-	3.0
05/07/20	1.76	500.64	-	3.0

INTRINSIC GROUNDWATER DATA SUMMARY			
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
03/23/99	-	-	-
08/11/99	-	-	-
10/14/99	-	-	-
03/22/00	-	-	-
06/22/00	-	-	-
09/26/00	-	-	-
12/20/00	-	-	-
03/21/01	-	-	-
06/21/01	-	-	-
03/14/02	-	-	-
06/27/02	-	-	-
09/27/02	-	-	-
12/19/02	-	-	-
03/24/03	-	-	-
07/24/07	-	-	-
04/09/08	-	-	-
07/14/08	-	-	-
10/07/08	-	-	-
03/07/11	-	-	-
05/25/11	-	-	-
06/23/14	-	-	-
05/20/16	-	-	-
05/17/17	-	-	-
09/12/17	-	-	-
01/04/18	3.30	7.0	144
05/08/18	2.79	5.9	114
05/23/19	2.54	5.8	142
05/07/20	3.60	6.0	148

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	OW-3		
INSTALLATION DATE:	-	WELL DEPTH (FT BTOC):	-	SCREEN LENGTH (FT):	-	CASING ELEV (FT ABOVE MSL):	502.40	WELL TYPE: DIAMETER (IN):	-
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
09/26/00	0.095	1.478	0.860	0.280	0.821	3.439	-
12/20/00	0.047	0.333	0.201	0.058	0.220	0.812	-
03/21/01	0.058	0.563	0.294	0.016	0.374	1.247	-
06/21/01	0.132	1.793	0.810	0.213	0.636	3.452	-
03/14/02	0.076	1.082	0.418	0.168	0.519	2.187	-
06/27/02	0.015	0.169	0.030	0.016	0.045	0.260	-
09/27/02	0.009	0.044	0.005	0.003	0.008	0.060	-
12/19/02	0.042	0.313	0.101	0.038	0.152	0.604	-
March-03	CA VIA MPE ENDED						
03/24/03	0.0125	0.2920	0.1050	0.0025	0.1170	0.517	-
01/29/07	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
May-07	CA VIA MEME STARTED						
07/24/07	0.0033	0.9260	0.0185	0.0671	0.1052	1.117	-
04/09/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
07/14/08	<0.03333	3.3258	0.1524	0.3967	0.6136	4.489	-
10/07/08	<0.025	4.6572	0.1909	0.3613	1.0219	6.231	-
03/07/11	<0.001	0.0702	<0.001	0.0057	0.0017	0.078	-
May-11	CA VIA MEME ENDED						
05/25/11	<0.001	0.1923	0.0044	0.0508	0.0119	0.259	-
06/23/14	<0.001	0.6573	0.0022	0.1006	0.0129	0.773	0.0447
05/20/16	<0.001	0.0289	<0.001	0.0054	0.0049	0.039	0.0053
05/17/17	<0.001	0.1159	0.0040	0.0085	0.0061	0.135	0.0097
09/12/17	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
01/04/18	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
05/08/18	<0.0010	0.0909	0.0042	0.0114	0.0047	0.111	0.0057
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	<0.0010	0.2854	0.0084	0.0939	0.0152	0.4029	0.0200
05/07/20	<0.0010	1.3091	0.0630	0.2327	0.0885	1.6933	0.1557
GRP SSTLs:	0.0278	0.00695	1.39	0.973	13.9	-	0.0278
Inhalation SSTLs:	5740	1.94	111	169	93.8	-	11.1

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	OW-4		
INSTALLATION DATE:	-	WELL DEPTH (FT BTOC):	-	SCREEN LENGTH (FT):	-	CASING ELEV (FT ABOVE MSL):	497.85	WELL TYPE: DIAMETER (IN):	-

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

POTENTIOMETRIC ELEVATION SUMMARY				
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
03/23/99	2.15	495.70	-	-
08/11/99	3.51	494.34	-	-
10/14/99	4.69	493.16	-	-
03/22/00	5.12	492.73	-	-
06/22/00	6.10	491.75	-	-
09/26/00	6.32	491.53	-	-
12/20/00	5.46	492.39	-	-
03/21/01	2.79	495.06	-	-
06/21/01	4.79	493.06	-	-
03/14/02	3.81	494.04	-	-
06/27/02	4.95	492.90	-	-
09/27/02	4.99	492.86	-	-
12/19/02	3.83	494.02	-	-
03/24/03	2.69	495.16	-	-
01/23/07	3.70	494.15	-	-
07/24/07	5.23	492.62	-	-
04/09/08	3.49	494.36	-	-
07/14/08	4.80	493.05	-	-
10/07/08	5.05	492.80	-	-
01/13/09	3.53	494.32	-	-
03/07/11	3.44	494.41	-	-
05/25/11	4.83	493.02	-	-
06/23/14	3.70	494.15	-	-
05/20/16	3.36	494.49	-	-
05/17/17	3.83	494.02	-	-
09/12/17	2.90	494.95	-	-
01/04/18	3.72	494.13	-	5.6
05/08/18	3.56	494.29	-	4.0
05/23/19	2.28	495.57	-	5.0
05/07/20	2.43	495.42	-	5.0

INTRINSIC GROUNDWATER DATA SUMMARY			
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
03/23/99	-	-	-
08/11/99	-	-	-
10/14/99	-	-	-
03/22/00	-	-	-
06/22/00	-	-	-
09/26/00	-	-	-
12/20/00	-	-	-
03/21/01	-	-	-
06/21/01	-	-	-
03/14/02	-	-	-
06/27/02	-	-	-
09/27/02	-	-	-
12/19/02	-	-	-
03/24/03	-	-	-
01/23/07	-	-	-
07/24/07	-	-	-
04/09/08	-	-	-
07/14/08	-	-	-
10/07/08	-	-	-
01/13/09	-	-	-
03/07/11	-	-	-
05/25/11	-	-	-
06/23/14	1.82	6.5	114
05/20/16	-	-	-
05/17/17	-	-	-
09/12/17	-	-	-
01/04/18	5.47	6.9	149
05/08/18	3.53	6.2	151
05/23/19	2.91	6.1	119
05/07/20	3.60	6.1	204

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	OW-4		
INSTALLATION DATE:	-	WELL DEPTH (FT BTOC):	-	SCREEN LENGTH (FT):	-	CASING ELEV (FT ABOVE MSL):	497.85	WELL TYPE: DIAMETER (IN):	-
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
03/21/01	NOT SAMPLED						
06/21/01	0.001	0.004	0.001	0.001	0.001	0.007	-
03/14/02	NOT SAMPLED						
06/27/02	0.001	0.002	0.001	0.001	0.001	0.005	-
09/27/02	NOT SAMPLED						
12/19/02	0.001	0.002	0.001	0.001	0.001	0.005	-
March-03	CA VIA MPE ENDED						
03/24/03	NOT SAMPLED						
01/29/07	<0.25	40.2992	31.5874	2.7828	16.8167	91.4861	-
May-07	CA VIA MEME STARTED						
07/24/07	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
04/09/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
07/14/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
10/07/08	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
01/13/09	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
03/07/11	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
May-11	CA VIA MEME ENDED						
05/25/11	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
06/23/14	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
05/20/16	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
05/17/17	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
09/12/17	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
01/04/18	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
05/08/18	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
01/10/19	NOT SAMPLED						
02/12/19	NOT SAMPLED						
05/23/19	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	BDL	<0.0010
05/07/20	<0.0010	0.0036	0.0035	0.0016	0.0038	0.0125	0.0027
GRP SSTLs:	0.0271	0.00678	1.36	0.95	13.6	-	0.0271
Inhalation SSTLs:	5740	1.94	111	169	93.8	-	11.1

Monitoring Point Data Summary Table									
SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	OW-5		
INSTALLATION DATE:	-	WELL DEPTH (FT BTOC):	-	SCREEN LENGTH (FT):	-	CASING ELEV (FT ABOVE MSL):	510.00	WELL TYPE: DIAMETER (IN):	- -
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

[illegible]

INTRINSIC GROUNDWATER DATA SUMMARY			
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	pH	REDOX POTENTIAL (mV)
07/14/08	NOT SAMPLED		
10/07/08	FREE PRODUCT (0.70 FT)		
01/13/09	FREE PRODUCT (0.01 FT)		
05/20/16	FREE PRODUCT (1.26 FT)		
05/17/17	FREE PRODUCT (0.81 FT)		
09/12/17	FREE PRODUCT (0.48 FT)		
01/04/18	FREE PRODUCT (0.01 FT)		
04/12/18	FREE PRODUCT (0.84 FT)		
05/08/18	FREE PRODUCT (0.79 FT)		
07/05/18	-	-	-
07/20/18	-	-	-
08/07/18	FREE PRODUCT (0.1 FT)		
08/21/18	FREE PRODUCT (0.3 FT)		
09/04/18	FREE PRODUCT (0.13 FT)		
09/18/18	3.27	5.40	91.0
10/04/18	FREE PRODUCT (0.58 FT)		
10/18/18	FREE PRODUCT (0.25 FT)		
11/20/18	-	-	-
12/18/18	-	-	-
01/10/19	FREE PRODUCT (0.01 FT)		
01/24/19	FREE PRODUCT (0.05 FT)		
02/12/19	FREE PRODUCT (0.64 FT)		
02/26/19	FREE PRODUCT (0.86 FT)		
05/23/19	FREE PRODUCT (1.06 FT)		
05/07/20	FREE PRODUCT (1.29 FT)		

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	OW-5		
INSTALLATION DATE:	-	WELL DEPTH (FT BTOC):	-	SCREEN LENGTH (FT):	-	CASING ELEV (FT ABOVE MSL):	510.00	WELL TYPE: DIAMETER (IN):	- -

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
March-03	CA VIA MPE ENDED						
May-07	CA VIA MEME STARTED						
07/14/08	NOT SAMPLED						
10/07/08	NOT SAMPLED - FREE PRODUCT (0.70 FT)						
01/13/09	NOT SAMPLED - FREE PRODUCT (0.01 FT)						
May-11	CA VIA MEME ENDED						
05/20/16	<0.05	20.4232	26.1536	1.8295	14.6410	63.0473	1.0069
05/17/17	<0.25	20.6009	26.5059	2.0953	15.9131	65.1152	1.1606
09/12/17	NOT SAMPLED - FREE PRODUCT (0.48 FT)						
01/04/18	<0.2500	15.8460	25.9616	2.2754	21.0062	65.0892	1.6465
09/18/18	<0.2500	26.0696	30.6227	2.5796	18.2295	77.5014	1.2542
01/10/19	<0.2500	18.0052	23.6354	1.5673	12.2272	55.4351	1.0387
02/12/19	NOT SAMPLED						
05/23/19	NOT SAMPLED - FREE PRODUCT (1.06 FT)						
05/07/20	<0.2500	19.8258	25.2228	1.5948	13.6434	60.2867	0.9427
GRP SSTLs:	2.79	0.698	140	97.8	175	-	2.79
Inhalation SSTLs:	48000	12.7	526	169	175	-	31

Monitoring Point Data Summary Table									
SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	OW-6		
INSTALLATION DATE:	-	WELL DEPTH (FT BTOC):	-	SCREEN LENGTH (FT):	-	CASING ELEV (FT ABOVE MSL):	512.00	WELL TYPE: DIAMETER (IN):	- -
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

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Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	OW-6		
INSTALLATION DATE:	-	WELL DEPTH (FT BTOC):	-	SCREEN LENGTH (FT):	-	CASING ELEV (FT ABOVE MSL):	512.00	WELL TYPE: DIAMETER (IN):	-
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

GROUNDWATER ANALYTICAL SUMMARY (mg/L)							
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
June-96	CA VIA MPE STARTED						
March-03	CA VIA MPE ENDED						
May-07	CA VIA MEME STARTED						
07/14/08	NOT SAMPLED						
10/07/08	NOT SAMPLED - FREE PRODUCT (0.26 FT)						
01/13/09	NOT SAMPLED - FREE PRODUCT (0.02 FT)						
May-11	CA VIA MEME ENDED						
05/20/16	<0.05	35.1396	34.1487	2.2355	14.3443	85.8681	1.0932
05/17/17	<0.25	34.4205	32.3125	2.2036	14.0107	82.9473	0.8777
09/12/17	NOT SAMPLED - FREE PRODUCT (0.49 FT)						
01/04/18	<0.2500	28.0964	31.2403	1.9312	13.1803	74.4482	0.5746
09/18/18	<0.2500	31.2677	31.0315	2.1107	14.0637	78.4736	0.8873
01/10/19	<0.2500	21.9270	26.5653	1.9375	14.2505	64.6803	0.9681
02/12/19	NOT SAMPLED						
05/23/19	NOT SAMPLED - FREE PRODUCT (1.31 FT)						
05/07/20	<0.2500	30.9464	32.1008	2.1435	14.0552	79.2459	0.8689
GRP SSTLs:	2.79	0.698	140	97.8	175	-	2.79
Inhalation SSTLs:	48000	12.7	526	169	175	-	31

Monitoring Point Data Summary Table

SITE NAME:	Former Notasulga Fina			UST NUMBER:	90-03-19	WELL ID:	Carbon Effluent		
INSTALLATION DATE:	-	WELL DEPTH (FT BTOC):	-	SCREEN LENGTH (FT):	-	CASING ELEV (FT ABOVE MSL):	-	WELL TYPE: DIAMETER (IN):	-
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

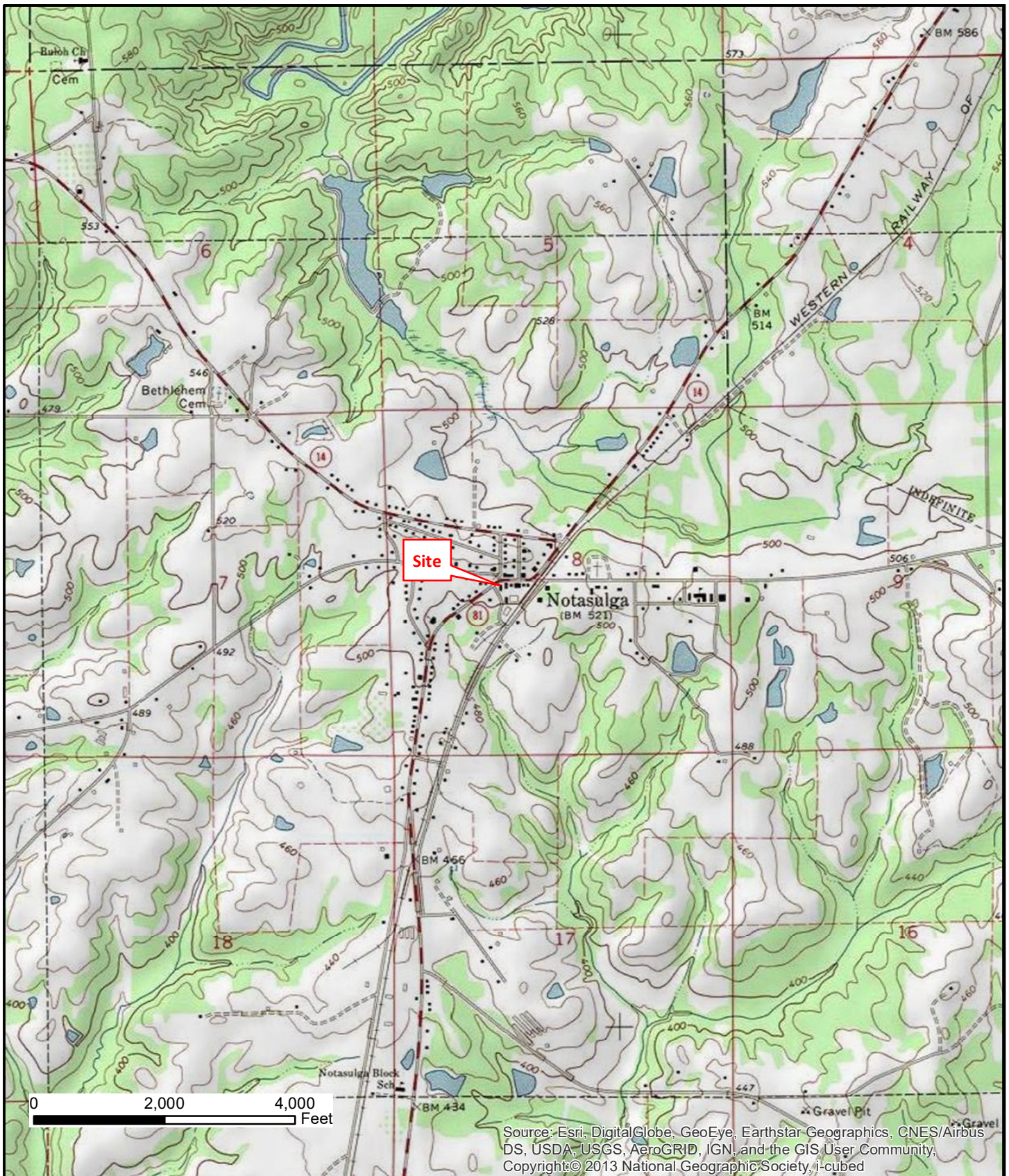
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Figures

APPENDIX B



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Site Location USGS Topographic Map

Notasulga Fina
Alabama Highway 81
Notasulga, Macon County, AL





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Land Use Map

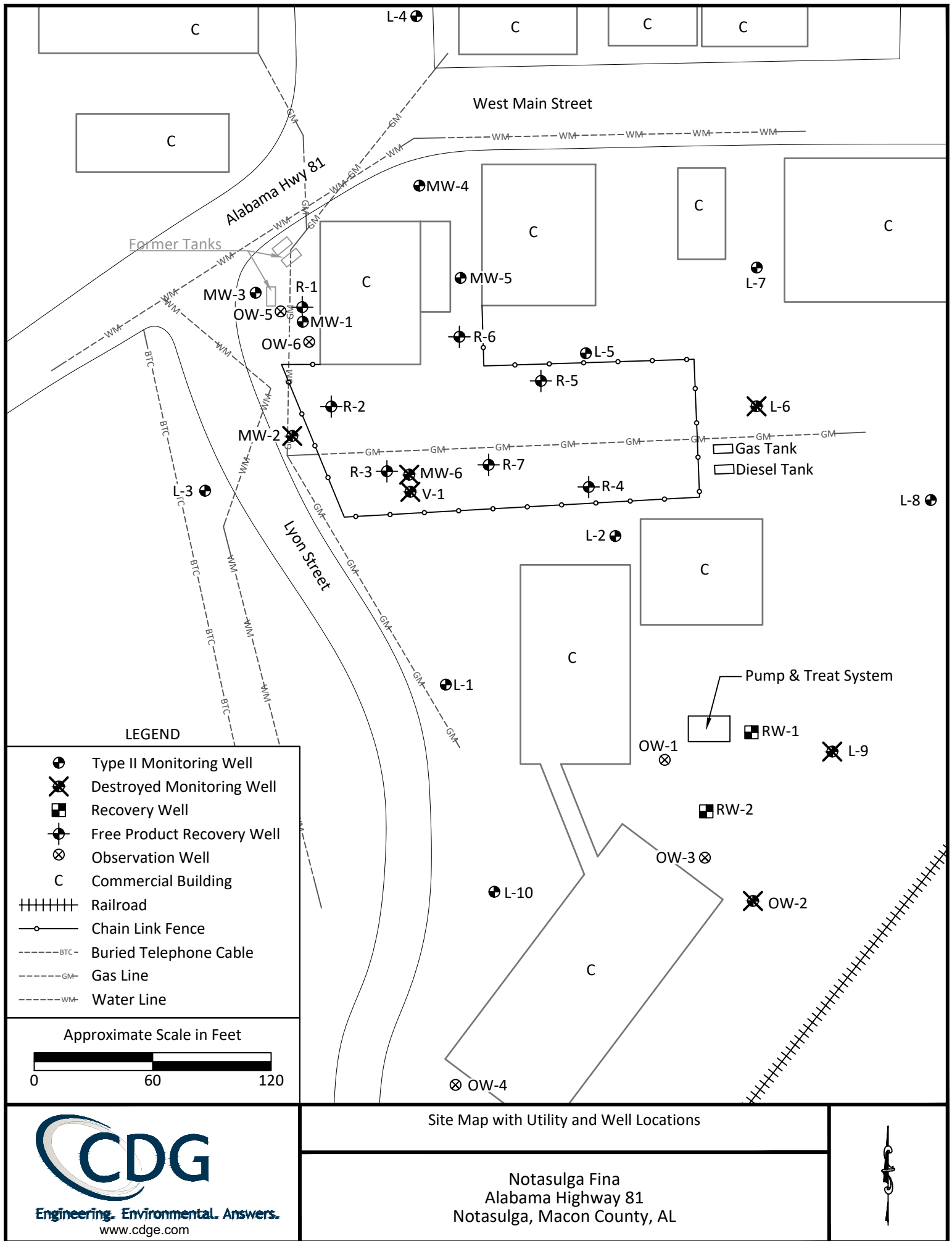
Notasulga Fina
Alabama Highway 81
Notasulga, Macon County, AL

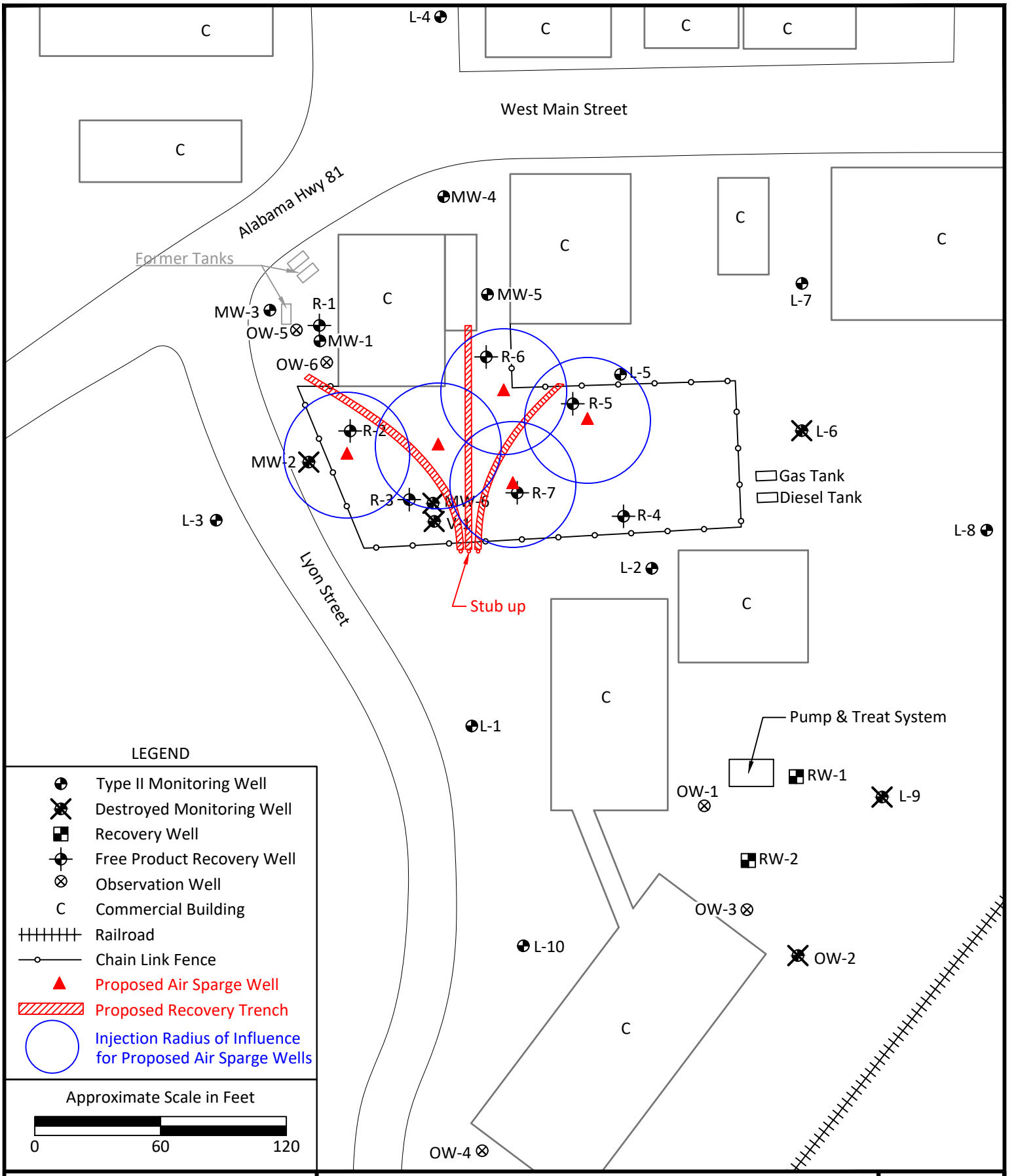


Approximate Scale in Feet



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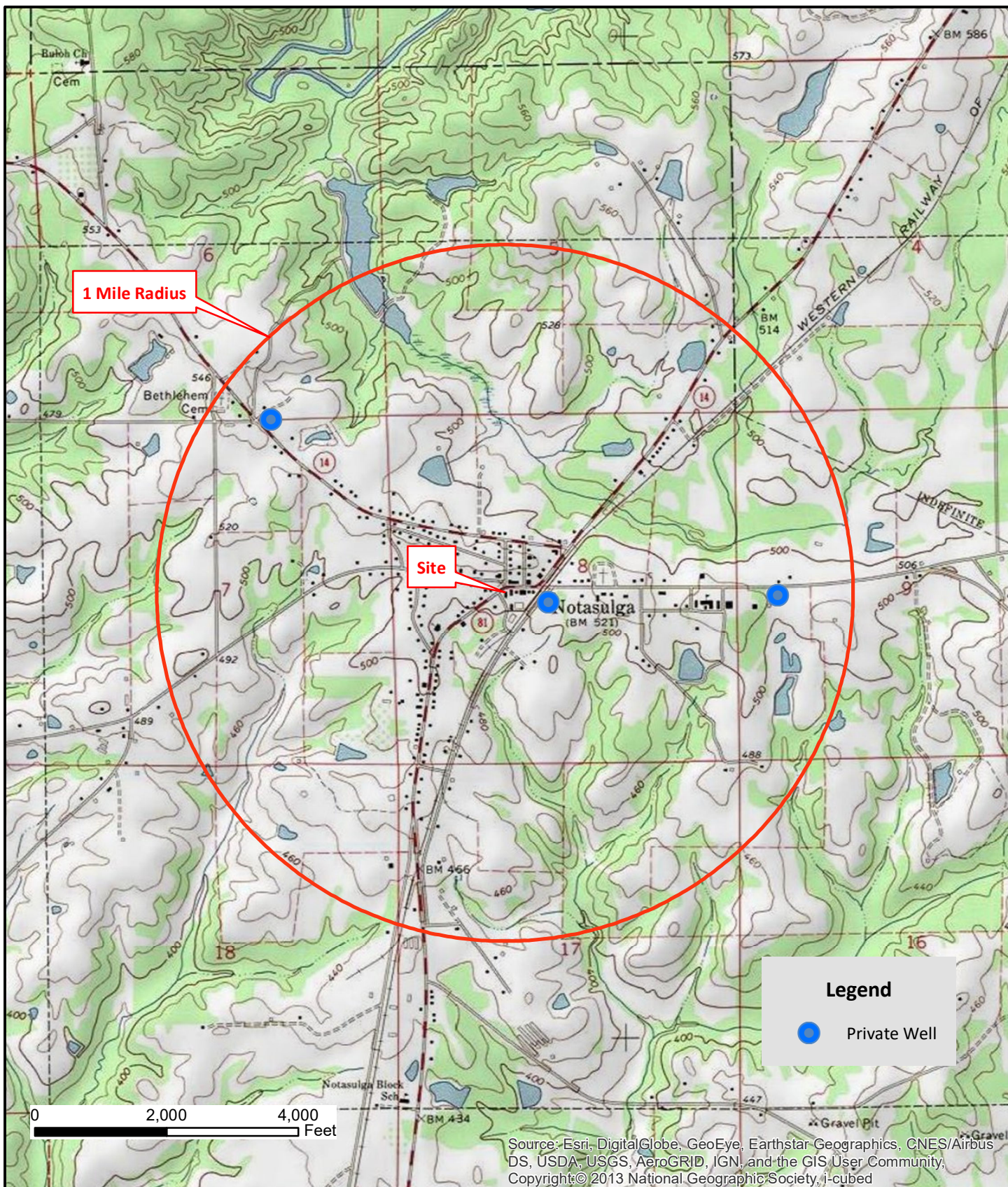
Site Map with Proposed Well and Trenching Locations

Notasulga Fina
Alabama Highway 81
Notasulga, Macon County, AL



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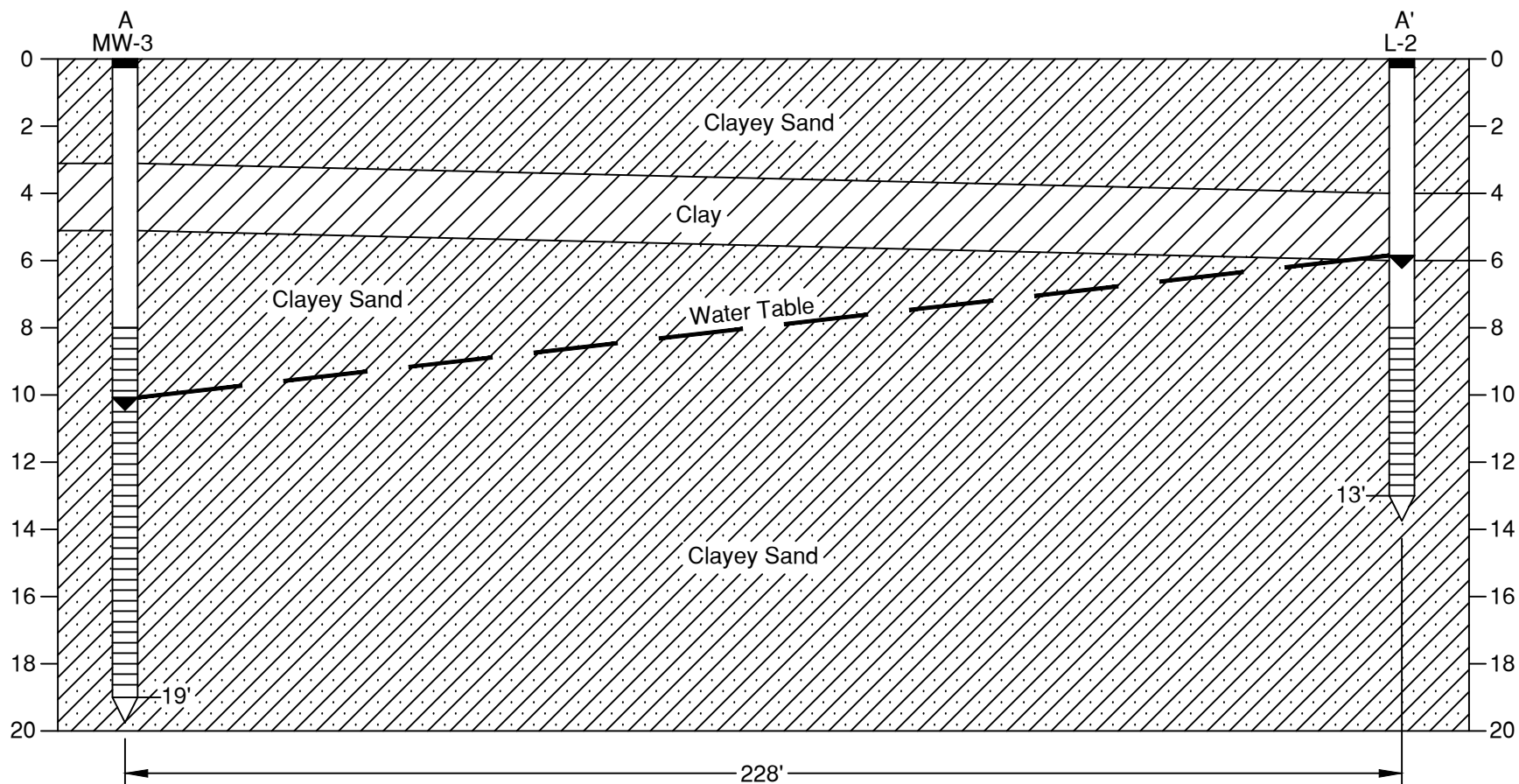


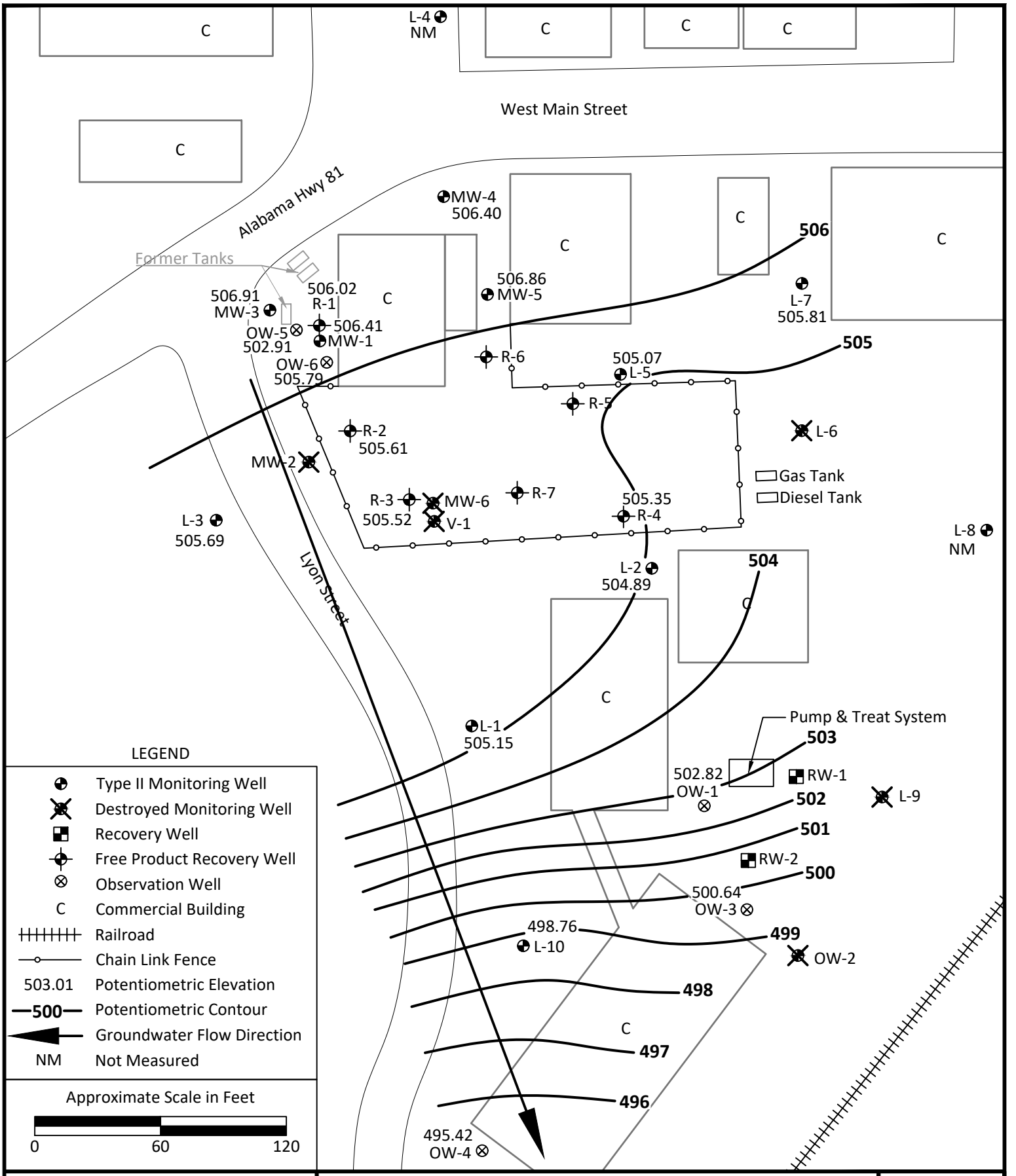
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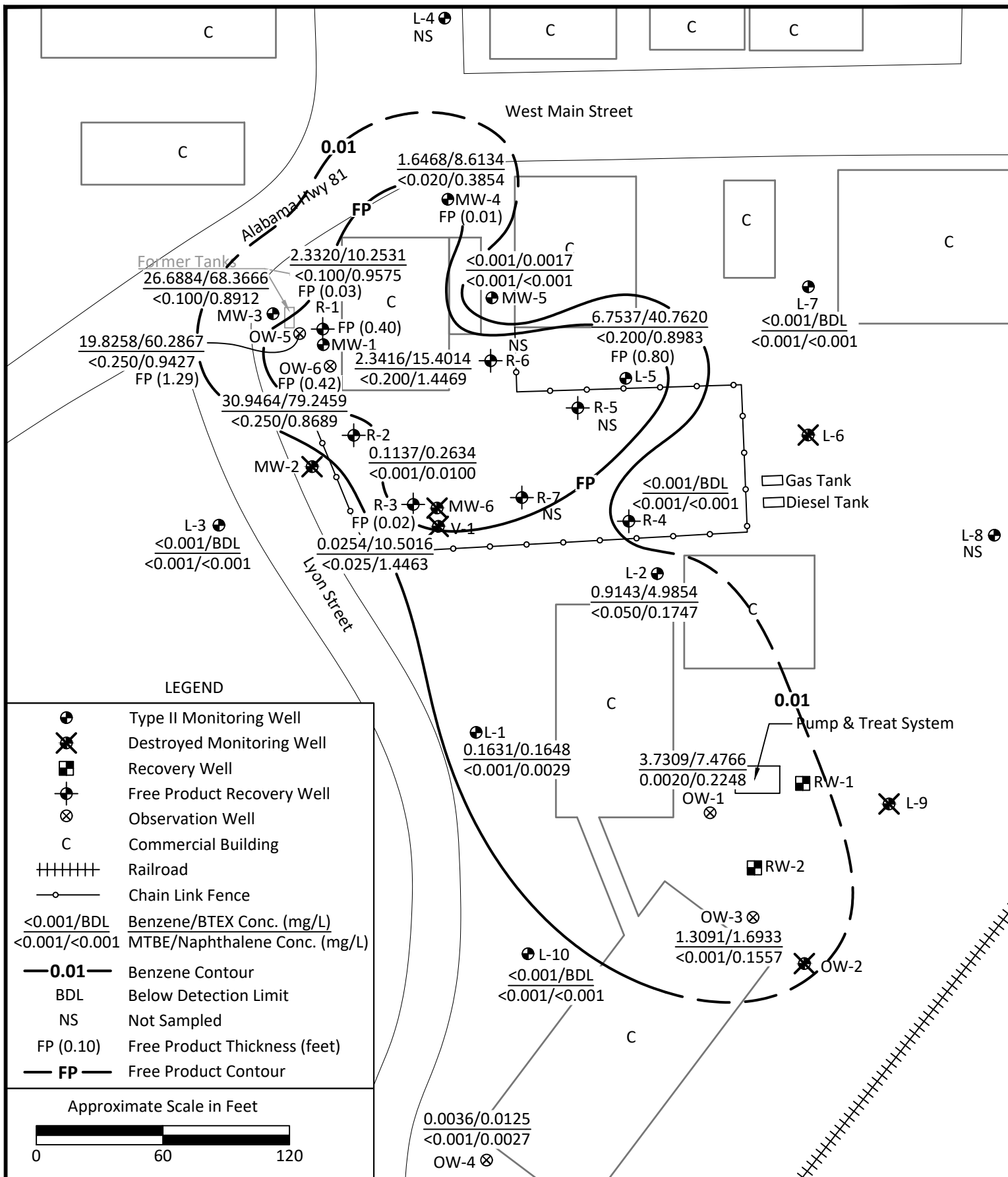
Water Well Inventory Map

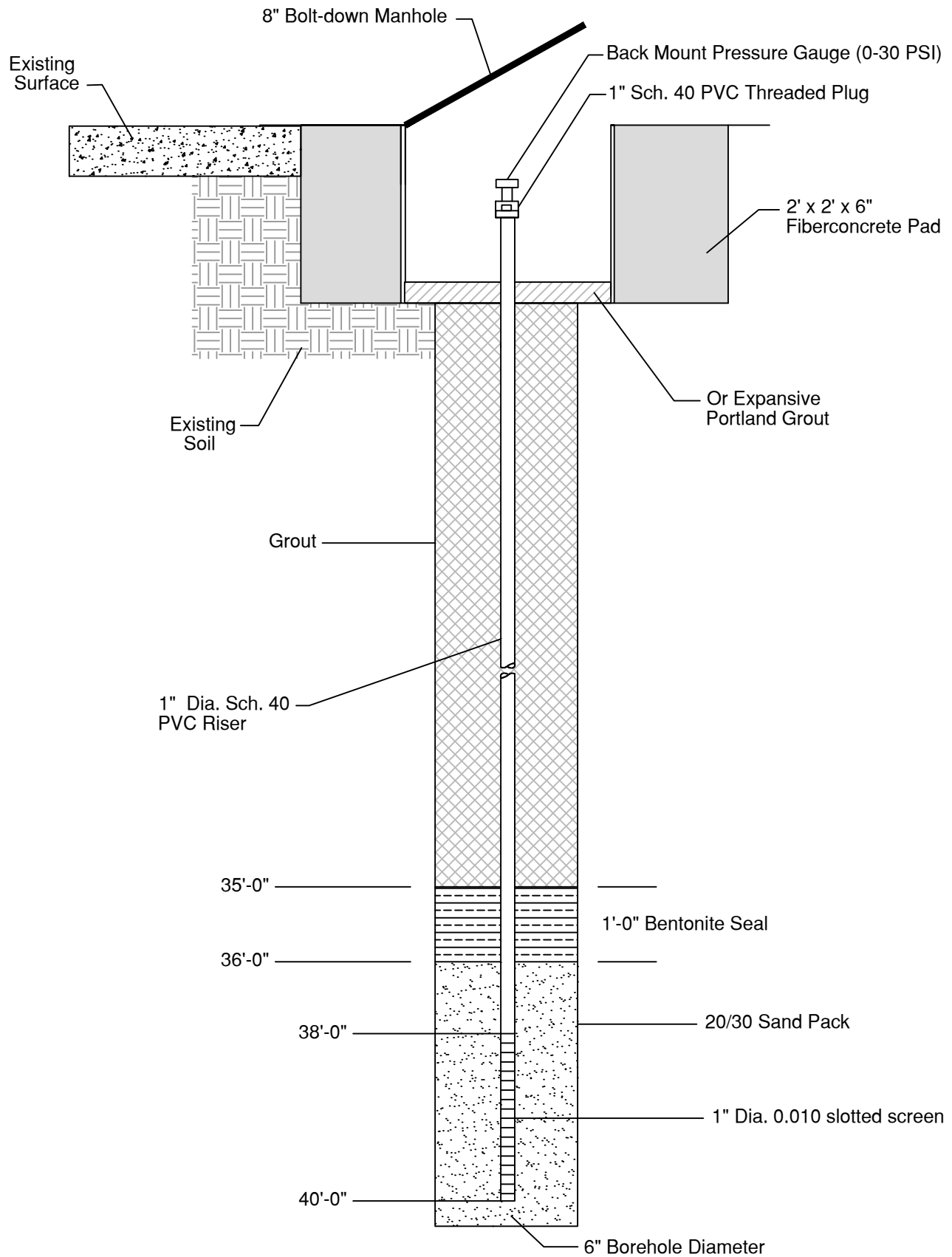
Notasulga Fina
Alabama Highway 81
Notasulga, Macon County, AL

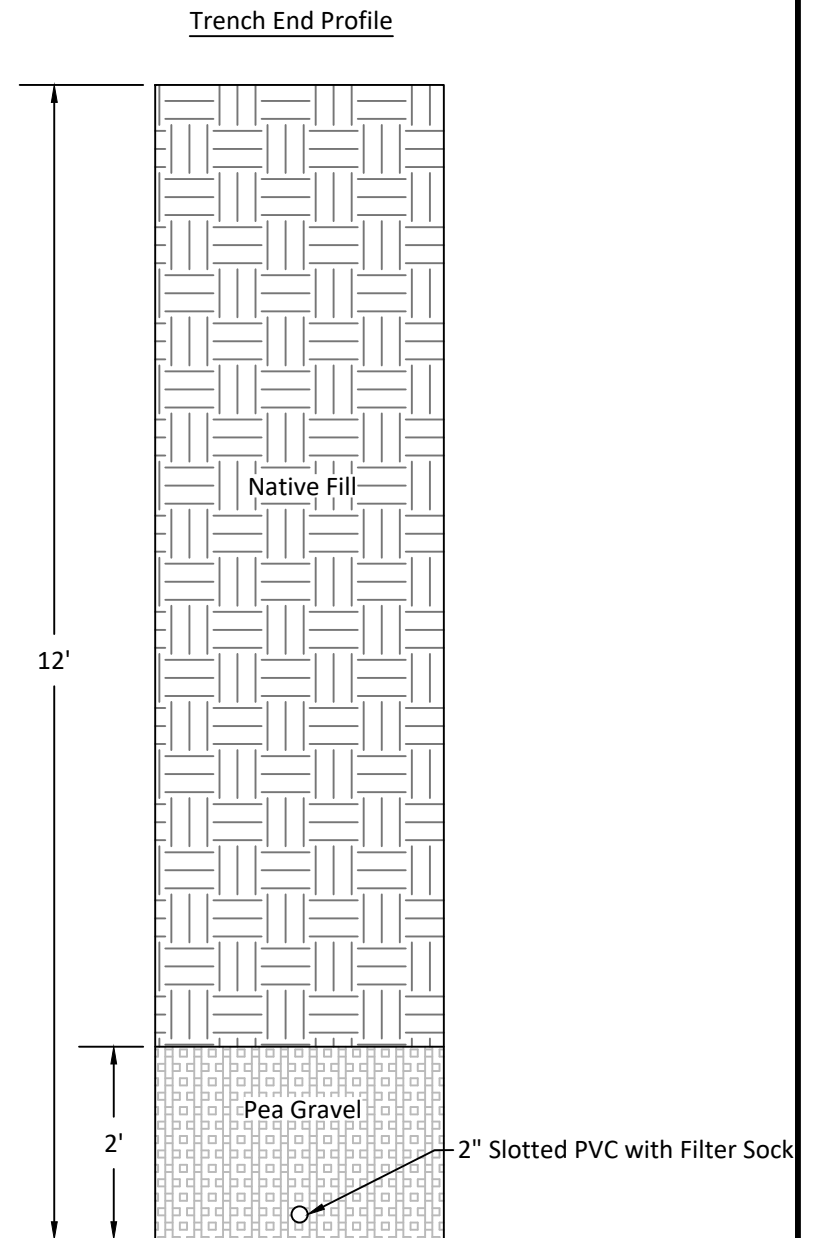
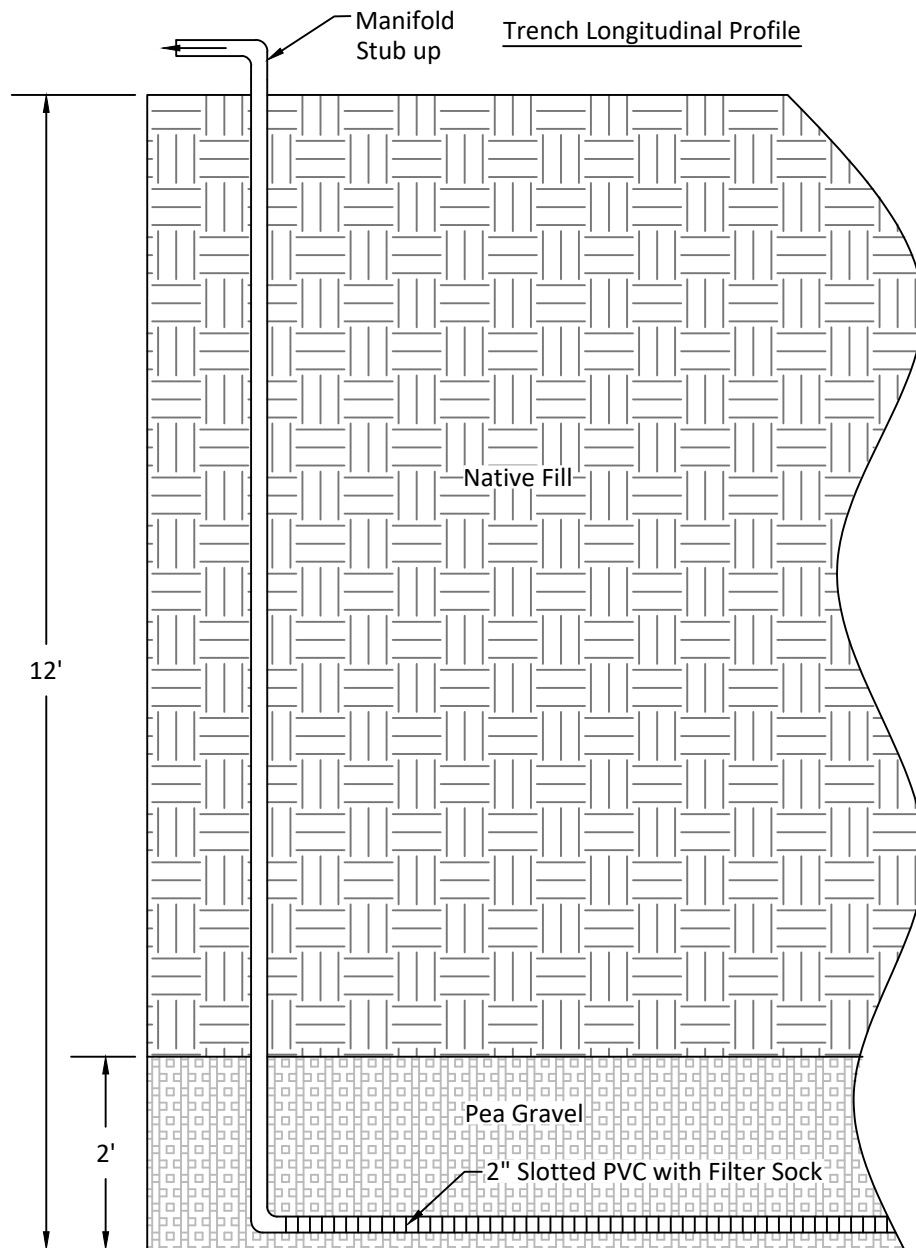














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Approved ARBCA SSTLs

APPENDIX C

ARBCA SUMMARY REPORT

FORM NO. 27

UST Incident No(s): 90-03-19

Facility ID: 15257-087-010450

Date Form Completed: 01-Apr-06

Form Completed By: D. Kees

TIER 2 GROUNDWATER RESOURCE PROTECTION TARGET CONCENTRATIONS

Distance from source to the point of exposure (POE):		584										COMPARISON FOR COMPLIANCE WELLS									
		COMPARISON FOR SOURCE SOIL					COMPARISON FOR SOURCE GROUNDWATER					COMPARISON FOR COMPLIANCE WELLS									
CHEMICALS OF CONCERN	Soil Source Rep. Conc. 1	Allowable Soil Conc. 2	E/ NE	[mg/kg]	[mg/L]	MW-3	GW Source Rep. Conc. 3	Allowable GW Conc. at a POC 4	E/ NE	[mg/L]	MW-1	CW Rep. Conc. 5	Allowable GW Conc. at a POC 6	E/ NE	[mg/L]	MW-5	CW Rep. Conc. 5	Allowable GW Conc. at a POC 6	E/ NE	[mg/L]	MW-3
COMPLIANCE WELL NO.																					
DISTANCE FROM SOURCE																					
RECENT TREND																					
ORGANICS																					
Benzene	8.35	5.81	E				31.7	0.698	E			31.7	0.694	E			0.06	0.216	NE	31.7	0.104
Toluene	77.9	1890	NE				64.5	140	NE			64.5	139	NE			0.128	43.2	NE	64.5	20.8
Ethylbenzene	24.7	869	NE				2.72	97.8	NE			2.72	97.1	NE			0.308	30.2	NE	2.72	14.6
Xylenes (Total)	158	1090	NE				10.1	175	NE			10.1	175	NE			0.173	175	NE	10.1	175
MTBE	0.675	6.88	NE				547	2.79	E			547	2.77	E			0.103	0.864	NE	547	0.416
Anthracene																					
Benzo(a)anthracene																					
Benzo(a)pyrene																					
Benzo(b)fluoranthene																					
Benzo(g,h,i)perylene																					
Benzo(k)fluoranthene																					
Chrysene																					
Fluoranthene																					
Fluorene																					
Naphthalene																					
Phenanthrene																					
Pyrene																					
METALS																					
Arsenic																					
Barium																					
Cadmium																					
Chromium VI																					
Lead																					
Zinc																					

NOTE: Use the ARBCA Computational Software to calculate the allowable (i) soil source conc., (ii) GW source conc., and (iii) compliance well conc.

1: The soil source representative concentrations have to be calculated and entered here.

3: The groundwater source representative concentrations have to be calculated and entered here.

5: Representative concentrations in the compliance well.

E: Representative concentration exceeds allowable concentration.

Recommended Attachment: A map showing the location(s) of the soil source(s), location of POE, and location(s) of POC.

2: Allowable soil concentrations at the source protective of groundwater at the POE.

4: Allowable groundwater concentrations at the source protective of groundwater at the POE.

6: Allowable groundwater concentrations at a point of compliance (POC) protective of a POE.

NE: Representative concentration does not exceed allowable concentration.

Page 1 of 2

ARBCA SUMMARY REPORT

FORM NO. 27

UST Incident No(s): 90-03-19

Facility ID: 15257-087-010450

Date Form Completed: 01-Apr-06

Form Completed By: D. Kees

TIER 2 GROUNDWATER RESOURCE PROTECTION TARGET CONCENTRATIONS

Distance from source to the point of exposure (POE):

-584-

COMPARISON FOR COMPLIANCE WELLS

CHEMICALS OF CONCERN	CW Rep. Conc. 5	Allowable GW Conc. at a POC	E/ NE	CW Rep. Conc. 5	Allowable GW Conc. at a POC	E/ NE	CW Rep. Conc. 5	Allowable GW Conc. at a POC	E/ NE	CW Rep. Conc. 5	Allowable GW Conc. at a POC	E/ NE	CW Rep. Conc. 5	Allowable GW Conc. at a POC	E/ NE
	[mg/L]	[mg/L]		[mg/L]	[mg/L]		[mg/L]	[mg/L]		[mg/L]	[mg/L]		[mg/L]	[mg/L]	
COMPLIANCE WELL NO.		L-1			L-10			OH-4			L-2			OH-3	
DISTANCE FROM SOURCE		255			384			501			261			495	
RECENT TREND		decreasing			stable			stable			stable			stable	
ORGANICS															
Benzene	0.017	0.0258	NE	0.003	0.0115	NE	0.004	0.00678	NE	4.895	0.0247	E	1.082	0.00695	E
Toluene	0.0076	5.16	NE	0.001	2.3	NE	0.001	1.36	NE	5.504	4.93	E	0.418	1.39	NE
Ethylbenzene	0.001	3.61	NE	0.001	1.61	NE	0.001	0.95	NE	0.667	3.45	NE	0.168	0.973	NE
Xylenes (Total)	0.0015	51.6	NE	0.001	23	NE	0.002	13.6	NE	2.954	49.3	NE	0.519	13.9	NE
MTBE	0.029	0.103	NE	0.001	0.046	NE	0.001	0.0271	NE	0.275	0.0986	E	0.076	0.0278	E
Anthracene															
Benzo(a)anthracene															
Benzo(a)pyrene															
Benzo(b)fluoranthene															
Benzo(g,h,i)perylene															
Benzo(k)fluoranthene															
Chrysene															
Fluoranthene															
Fluorene															
Naphthalene															
Phenanthrene															
Pyrene															
METALS															
Arsenic															
Barium															
Cadmium															
Chromium VI															
Lead															
Zinc															

NOTE: Use the ARBCA Computational Software to calculate the allowable (i) soil source conc., (ii) GW source conc., and (iii) compliance well conc.

5: Representative concentrations in the compliance well.

6: Allowable groundwater concentrations at a point of compliance (POC) protective of a POE.

E: Representative concentration exceeds allowable concentration.

NE: Representative concentration does not exceed allowable concentration.

Recommended Attachment: A map showing the location(s) of the soil source(s), location of POE, and location(s) of POC.

ARBCA SUMMARY REPORT

FORM NO. 29a

UST Incident No(s): 90-03-19

Facility ID: 15257-087-010450

Date Form Completed: 01-Apr-06

Form Completed By: D. Kees

TIER 2 ON-SITE TARGET LEVELS FOR INHALATION AND INGESTION

NOTE: The SSTLs listed for each route of exposure are the minimum SSTLs for all the receptors for that particular route of exposure. The Tier 2 on-site target levels are the minimum SSTLs of all routes of exposures within each medium.

CHEMICALS OF CONCERN	SURFICIAL SOIL		SUBSURFACE SOIL			GROUNDWATER			
	Outdoor Inhalation, Ingestion, & Dermal Contact [mg/kg]	On-Site Tier 2 Target Levels [mg/kg]	Indoor Inhalation [mg/kg]	Outdoor Inhalation [mg/kg]	On-Site Tier 2 Target Levels [mg/kg]	Indoor Inhalation [mg/L]	Outdoor Inhalation [mg/L]	Ingestion of Water [mg/L]	On-Site Tier 2 Target Levels [mg/L]
ORGANICS									
Benzene	NA	NA	14	1050	14	12.7	1750	NA	12.7
Toluene	NA	NA	1890	1890	1890	526	526	NA	526
Ethylbenzene	NA	NA	869	869	869	169	169	NA	169
Xylenes (Total)	NA	NA	1090	1090	1090	175	175	NA	175
MBE	NA	NA	24400	24400	24400	48000	48000	NA	48000
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA
METALS									
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTE:

NA: Not Available

ARBCA SUMMARY REPORT

FORM NO. 29b

UST Incident No(s): 90-03-19

Facility ID: 15257-087-010450

Date Form Completed: 01-Apr-06

Form Completed By: D. Kees

TIER 2 OFF-SITE TARGET LEVELS FOR INHALATION AND INGESTION

NOTE: The SSTLs listed for each route of exposure are the minimum SSTLs for all the receptors for that particular route of exposure. The Tier 2 off-site target levels are the minimum SSTLs of all routes of exposures within each medium.

CHEMICALS OF CONCERN	SURFICIAL SOIL		SUBSURFACE SOIL			GROUNDWATER			
	Outdoor Inhalation, Ingestion, & Dermal Contact [mg/kg]	Off-Site Tier 2 Target Levels [mg/kg]	Indoor Inhalation [mg/kg]	Outdoor Inhalation [mg/kg]	Off-Site Tier 2 Target Levels [mg/kg]	Indoor Inhalation [mg/L]	Outdoor Inhalation [mg/L]	Ingestion of Water [mg/L]	Off-Site Tier 2 Target Levels [mg/L]
ORGANICS									
Benzene	NA	NA	214	394	214	194	1600	NA	194
Toluene	NA	NA	247	1890	247	111	526	NA	111
Ethylbenzene	NA	NA	869	869	869	169	169	NA	169
Xylenes (Total)	NA	NA	366	1090	366	93.8	175	NA	93.8
MtBE	NA	NA	2530	24400	2530	5740	48000	NA	5740
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA
METALS									
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium VI	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTE:

NA: Not Available



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Quality Assurance/ Quality Control Plan

APPENDIX D

QA/QC MONITORING/SAMPLING PLAN

FIELD ACTIVITIES

Air Sampling

Air samples are collected utilizing an air sampling pump system or Summa canister. The pump is primed, prior to collection of each sample, to displace any trapped air or gases with the targeted air make-up. The air is drawn in and exits through polyethylene tubing. The sample is collected directly into and stored in a Tedlar air/gas sampling bag or Summa canister. The sample bag or canister is provided to CDG by the analytical laboratory. The air sampling pump system is also used to extract air/gases from a vacuum and drive them into a field-screening instrument. The air sample collection and screening protocols are described below.

Air Screening

Air screening is conducted to provide a field indication of the levels of hydrocarbon gases in vapor phase. The air/gases are screened with an organic vapor analyzer, equipped with a methane filter (as applicable). The field instrument is field calibrated to a gas standard of known concentration. Field air/gas samples are screened at ambient conditions and the data recorded. The field screening test form contains the following information:

- Project name (client and location);
- Data table number;
- Personnel collecting samples;
- Field screening instrument used and I.D. number;
- Calibration information;
- Description of field screening method;
- Sample identification information; and
- Screening data, including time collected/screened, ambient temperature/results.

Air Sampling Protocols

Air samples designated for laboratory analysis are collected in Tedlar bags or a Summa canister. The sample bags or canister are provided to CDG directly by the analytical laboratory. If Tedlar bags are used, two Tedlar bags are filled for each sample, in the event the bags are damaged during shipment. Upon collection, each sample bag is immediately placed in a cooler or other secure shipping container, following laboratory instructions and appropriate chain of custody documentation. The samples are sent direct to the laboratory via overnight carrier or are picked up from the CDG office by a representative of the laboratory.

Groundwater Monitoring/Sampling Activity Protocols

Groundwater monitoring/sampling includes the following associated activities:

- 1) Measurement for the presence of free product;
- 2) Measurement of static water level;
- 3) Calculation of standing water volume (in well);
- 4) Sample collection; and
- 5) Equipment decontamination.

Groundwater sampling parameters are recorded in the field on a monitor well sampling record form. The details for each of the above referenced monitoring/sampling activities are described in the following sections.

Free Product Detection and Measurement

The presence of free product is measured prior to free product recovery and purging/sampling the selected monitor well. Free product is detected/measured using a hydrocarbon/water interface probe. The probe is lowered slowly into the well until an instrument tone is heard (a constant tone indicates that free product is present, and an intermittent tone indicates that water is present). The point at which a constant tone is first heard is considered the top of free product. The measurement from the top of the PVC well casing to the top of free product is recorded. The measurement is checked at least twice. The probe is then slowly lowered further into the well until an intermittent tone is heard (indicating that the probe has passed through the free product layer into the underlying groundwater interval). Once the intermittent tone is encountered, the probe is slowly raised until the constant tone is again indicated. This point is considered the interface between the floating free product layer and the groundwater table. The measurement from the top of the PVC casing to the interface is recorded. This measurement is also checked at least twice.

The free product thickness is determined by calculating the difference between the measurement to the top of free product and the measurement to the free product/water interface (the interface probe measures free product and water levels to an accuracy of 0.01 feet). If free product is identified by the interface probe, a clear bailer is lowered into the well to collect a sample for visual confirmation of the free product. Remarks regarding visual characteristics of the free product are recorded (black, clear, colored, etc.).

Calculation of Standing Water Volume

The standing water volume in a monitor well is calculated using the equation:

$v = 3.14 \times r^2 \times l$ (where v = well volume, r = well radius, and l = length of the column of water in the well).

The column of water in the well can be calculated using the equation:

$I = w - d$ (where w = distance from the top of casing to the bottom of the well and d = distance from the top of casing to the top of the water).

Well Evacuation

Well evacuation is initiated after the static water level is measured and the standing water volume has been calculated. Well evacuation is conducted by either using a new disposable (single-use) bailer, a well-dedicated PVC bailer, or a surface mounted pneumatic operated diaphragm pump (a diaphragm pump is only used in deep wells (greater than 25 feet) or in wells that yield such large volumes that hand-bailing is not practical).

Well evacuation with a bailer is performed by attaching a new nylon line to the bailer, and then lowering the bailer in to the well until the bailer is submerged. The bailer is then retrieved from the well in such a manner that the bailer and nylon line do not contact the ground or surrounding vegetation (to prevent contaminating the bailer or line). The water removed from the well is poured into a graduated bucket so that the amount of water removed can be determined. This procedure is repeated until three well volumes of water are removed, or until the well is purged dry. For wells that recharge very slowly, the purge water is limited to one well volume. The volume of groundwater purged from each well will be recorded.

Well evacuation with a diaphragm pump is conducted by lowering disposable tubing (hose) into the well, to sufficient depth. For deeper wells, a PVC pipe, equipped with a foot valve (to stage-lift the water out of the well) will be employed. The piping will be well-dedicated to prevent cross-contamination. Pumping will be performed until at least three well volumes are recovered (purge volume will be recorded).

Petroleum contaminated water (PCW) purged from wells in conjunction with groundwater monitoring/sampling activities will be containerized on-site in labeled 55-gallon drums. PCW will be removed periodically from the site to an appropriate disposal/treatment/recycling facility approved by the ADEM. Records will be maintained as to the volume of PCW accumulated at the site, and identification labels will be affixed to PCW containers. Prior to disposal, samples will be collected and analyzed as required by the ADEM and the disposal/treatment/recycling facility. No waste will be removed from the site without ADEM knowledge/approval.

Groundwater Sample Collection

Groundwater samples are collected from monitor wells not containing free product, unless otherwise directed by the ADEM. Groundwater sampling is performed using a new disposable bailer for each sampled well. The disposable bailers are purchased in individually wrapped packages and are not opened until ready to use. Once opened, the bailers are attached to a length of new nylon string. The bailer and string are not allowed to touch the ground or vegetation and are disposed of after each well.

Sampling is accomplished by slowly lowering the bailer into the well to a depth where the bailer is almost completely submerged. The bailer is then slowly retrieved from the well to minimize agitation of the sample. Once collected, the water sample is immediately transferred (poured slowly to minimize agitation and formation of air bubbles) into the designated sample containers.

Groundwater samples collected for BTEX/MTBE and naphthalene analysis (volatile organics) are transferred very slowly down the inside of the sample vial to avoid aeration. The sample vials, consisting of 40 ml glass with a Teflon septum cap, are shipped to CDG directly from the analytical laboratory. The groundwater sample is added to the vial until a convex meniscus is formed across the top of the vial. The Teflon septum cap is placed on the vial and the vial is upended to check for trapped air bubbles. If bubbles are present, the sample container is opened, and topped off again until an air-free sample is obtained. If the vial cannot be closed "air-free" after three tries, it is discarded. Two samples are collected for each BTEX/MTBE (volatile) analysis. The preservation employed for BTEX/MTBE (volatile) analysis will include either of the following (depending on holding time constraints):

- Cool collected sample to 4°C and maintain (7 day holding time), or
- Add 4 drops concentrated HCl to sample vial (typically the acid is pre-added by the laboratory to the sample vial) and then cool sample to 4°C and maintain (14 day holding time).

Immediately following collection of each groundwater sample, the sample is labeled, placed in bubble pack (to prevent the glass vial from breaking during shipping), and stored in a well-iced ice chest. Each sample label includes the site location, sample identification number, name of collector, date/time of collection, and parameter(s) requested.

Following collection of all samples, the iced chest will be sealed and transported to the laboratory following appropriate chain of custody protocols (refer to description of Chain of Custody protocols provided below).

Decontamination of Groundwater Sampling Equipment

All equipment used for groundwater sampling is either well-dedicated or is used only once and disposed of. As a result, cleaning/decontamination of sampling equipment is minimal.

QA/QC PROCEDURES DISCUSSION

Chain of Custody

Sample custody begins with the subcontracted laboratory when sample kits are prepared and shipped for CDG use at a specified project location. Responsibility for

sample container materials and preparation lies with the subcontracted laboratory. Sample containers and kits are normally shipped to CDG by common carrier or are dropped off by a laboratory representative. Upon receipt of the kits, CDG personnel complete an inventory of the contents to confirm that the containers, etc. are adequate for the number of wells and specified analytes. Sample bottles may be pre-labeled and contain the proper preservative. The individual sample vials and/or other sample containers are not opened until used in the field. CDG will secure the sample kits inside the office until the specific sampling project is to be performed.

The samples remain in the custody of the CDG representative until delivered to the subcontract laboratory or dispatched via common carrier for shipment to the laboratory. In cases where samples leave the direct control of CDG personnel, such as shipment to a laboratory by a common carrier (FedEx, UPS, etc.), a seal will be provided on the shipping container or individual sample bottles to ensure that the samples have not been opened or otherwise disturbed during transportation.

To establish and maintain the documentation necessary to trace sample possession from the time of collection, a chain of custody record will be completed and will accompany every sample. The record contains the following types of information:

- Sample number
- Signature of collector
- Date and time of collection
- Sample type (soil, groundwater, air, etc.)
- Identification of well
- Number of containers
- Parameters requested for analysis
- Required detection limit
- Signature of person(s) involved in the chain of possession.

Field QA/QC Program

Various types of field blanks are collected to verify that the sample collection and handling process has not affected the quality or integrity of the samples.

- 1) Trip Blanks – A trip blank is a field blank that is transported from the laboratory to the sampling site, handled in the same manner as other samples, and then returned to the laboratory for analysis in determining QA/QC of sample handling procedures. The trip blank is prepared in the laboratory with distilled/organic free water and is utilized at a frequency of 1 trip blank for each cooler (or other shipping container) used to transport samples from the laboratory to the field and back to the laboratory.

- 2) Duplicate Sample – Duplicate samples are collected simultaneously from the same source, under identical conditions, into separate sample containers. These samples provide a check on the sampling techniques as well as laboratory equipment. Duplicate samples are only collected on groundwater samples at a frequency of one sample per sampling event.

The results of the analysis of the blanks will not be used to correct the groundwater data. If contaminants are found in the blanks, an attempt to identify the source of contamination will be initiated and corrective action, including re-sampling if necessary, will be evaluated.

After completing a sampling program, the field data package (field logs, calibration records, chain of custody forms, etc.) will be reviewed for completeness and accuracy. Some of the items considered in the Field Data Package Validation Procedure include but are not limited to the following:

- A completeness review of field data contained on water and soil sampling logs;
- A verification that sampler blanks were properly prepared, identified, and analyzed;
- A check on field analyses for equipment calibration and condition; and
- A review of chain of custody forms for proper completion, signatures of field personnel and the laboratory sample custodian, and dates.

Laboratory QA/QC Program

The selection of a contract laboratory can be directed either by the client or by CDG. In either case, the selection is typically based upon several facts, including cost; laboratory certification; quality data and reporting; and turn around time. The most critical factor in the selection of an analytical laboratory by CDG is the quality of data and reporting provided by the laboratory. Typically, the results of analytical laboratory testing dictate the activities conducted at a site. The activities conducted when selecting a laboratory include discussions with current and past customers, discussions with regulators, and review of laboratory QA/QC practices.

The normal turn around for samples will be two weeks for most samples. Prior to contracting a laboratory to conduct analysis, an estimate of the turn around time is obtained. If the expected turn around is in excess of three weeks, then a backup laboratory is contacted to determine their availability. A decision of which laboratory to use in a particular instance is made on a case-by-case basis.

Once an analytical report is received by CDG, validation of the analytical data package will be performed. The Analytical Data Package Validation procedure will include but is not limited to the following:

- A comparison of the Data Package to the reporting level requirements designed for the project, to ensure completeness;
- A comparison of sampling dates, sample extraction dates, and analysis dates to determine if samples were extracted and/or analyzed within the proper holding times' as failure in this area may render the data unusable;
- A review of analytical methods and required detection limits to verify that they agree with set standards; as failure in this area may render the data unusable;
- A review of sample blanks to evaluate possible sources of contamination. The preparation techniques and frequencies, and the analytical results (if appropriate) will be considered; and
- A review of blanks (trip blanks, reagent blanks, method blanks, and extraction blanks) to assure that they are contamination free at the lowest possible detection limit. All blank contaminants must be explained or the data applicable to those blanks will be labeled suspect and may only be sufficient for qualitative purposes.
- A review of detection limits, to ensure sample results are accurate to below the levels specified as ADEM Initial Screening Levels.
- A review of data "qualifiers" reported by the laboratory for significance to the results.



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Site Health and Safety Plan

APPENDIX E

Site Health and Safety Plan

**NOTASULGA FINA
Alabama Highway 14
Notasulga, Macon County, Alabama
Facility ID No. 15257-087-010450
UST No. 90-03-19**

***Prepared For:*
W.T. Wadsworth Oil Company
474 Old Frank Road
Tuskegee, Al 36083**

***Prepared By:*
CDG Engineers & Associates, Inc.
1840 East Three Notch Street
Andalusia, Alabama 36421**

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1.0 Introduction

This Health and Safety Plan (HASP) has been prepared specifically for corrective action activities to be conducted by CDG Engineers & Associates, Inc. (CDG) for the Notasulga Fina facility located in Notasulga, Macon County, Alabama. These activities include all fieldwork necessary to conduct soil and groundwater remediation of petroleum hydrocarbons at the site.

2.0 Purpose

This HASP describes the preventative measures, person protection, and safety procedures to be followed by CDG personnel and subcontractors during all field activities. The HASP has been prepared in accordance with and meets the requirements of the Occupation Safety and Health Administration (OSHA) General Safety Standards for industry under 29 CFR 1910 and construction under 29 CFR 1926, the joint NIOSH/OSHA/USCG/EPA, *Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities*, dated October 1985, and NFPA Safety Guidelines. Should any unexpected conditions arise, the HASP will be amended to accommodate site specific conditions.

3.0 Key Personnel and Responsibilities

All CDG personnel have received an initial 40-hour HAZWOPER certification, which is updated annually through an 8-hour refresher course. This training course meets the requirements of the OSHA 29 CFR 1910.120 standards. CDG personnel assigned to the project include:

NAME	TITLE	RESPONSIBILITIES
David Dailey or Alan Barck	Professional Engineer/ Corporate HSO	Overall management of entire project from beginning to completion. Responsible for preparation and implementation of the HASP and reporting of all hazard incidents to appropriate enforcement agencies. Coordinates and oversees all field activities.
April Harrelson	Project Manager / Site HSO	Performs all field activities and is responsible for recognizing site hazards and reporting hazard incidents to Corporate HSO.

4.0 Scope of Work

Work to be performed will include installation and excavation activities.

4.1 Installation Activities

Installation activities generally involve preparing the site for installation activities and also the construction of the MPVE unit onsite. More specifically this will include:

- Preparing the site for work to be performed
- Saw-cutting concrete surface, excavating, and installing well vaults
- Installing polyvinyl chloride (PVC) extraction piping and subsurface utility lines
- Installing piping connections from extraction piping to wellhead
- Overseeing placing and leveling of remediation system
- Completing all piping connections from extraction and utility lines to remediation unit
- Completing all electrical connections
- Installing concrete block security fence
- Inspecting rotation on all electric motors
- Inspecting PVC piping, extraction lines, treatment system, and associated connections for leaks at start up

4.2 Operation and Maintenance Activities

Subsequent to the construction and installation of the MPVE unit, the unit must periodically undergo inspections or maintenance. CDG field personnel will inspect the unit on a weekly basis, taking certain instrument readings necessary to determine the progress of the remediation being performed at that particular site. Maintenance of the unit is performed on an as needed basis. The following applies to operation and maintenance activities associated with the MPVE unit:

- Inspecting proper working condition of telemetry system
- Lubricating motors
- Inspecting piping for leaks
- Inspecting belts on Liquid Ring Vacuum Pump (LRVP) system
- Periodic cleaning of equipment and components
- Periodic inspections of electrical connections
- Measuring induced vacuum in on site monitoring wells
- Removing silt and sludge buildup from knockout pot air stripper, filtration system and other system components
- Measuring air flow from MPVE unit

- Measuring liquid levels in wells
- Sampling effluent for discharge parameters
- Measuring volume of liquids removed and discharged

5.0 Chemical Hazards

When conducting the aforementioned corrective action activities, the primary chemicals of concern are gasoline.

5.1 Gasoline and Diesel

Gasoline and diesel are substances to be potentially encountered in the soil and groundwater at the site. Gasoline components include benzene, toluene, ethylbenzene, and xylenes (BTEX). Diesel components may include anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, fluorene, naphthalene, phenanthrene, and pyrene.

5.2 Hazard Identification

During the corrective action activities, many hazards or potential hazards may be encountered when dealing with gasoline or diesel. This section serves as a guideline in recognizing hazards associated with these chemicals that exist or may potentially arise during field activities. Recognition is the first step in eliminating exposure to these hazards.

Occasionally methyl-tertiary butyl ether (MTBE) is encountered. MTBE has been used since 1979 as an oxygenate to gasoline in order to decrease carbon monoxide production in cars, particularly older model cars; however, MTBE has been determined to be a potential carcinogen. MTBE has low taste and odor thresholds, which can make a water supply non-potable even at low concentrations.

Exposure to MTBE will only be seen through exposure to gasoline containing MTBE and the effects of gasoline containing MTBE are relatively similar to gasoline not containing MTBE. The following are hazards associated with exposure to gasoline:

- Contact may irritate or burn the skin and eyes and absorption through the skin may be poisonous
- Vapors may be poisonous if inhaled and are irritating to the respiratory tract
- Vapors are an explosion hazard and may travel to a source of ignition and produce flashback
- A gasoline fire may produce irritating and poisonous gases
- Gasoline and diesel are flammable/combustible materials that may be ignited by heat, sparks, or flames, and a gasoline container may explode when exposed to heat or fire

The primary hazard associated with exposure to gasoline is the inhalation of vapors. The Material Safety Data Sheets (MSDS's) are presented in Attachment A.

5.3 Hazard Prevention

Preventing exposure to chemical hazards generally requires the use of personal protective equipment (PPE). Level D equipment will provide the protection necessary to prevent exposure to these hazards. Level D equipment is discussed further in Section 10.1, Personal Protective Equipment.

5.4 Symptoms and First Aid Procedures

Many of the constituents found in gasoline and diesel act as central nervous system (CNS) depressants. The following table includes first aid measures for CNS depressants, which affect a person through inhalation (breathing), dermal (skin), or ingestion (mouth) exposure. In addition, the eye can be very sensitive to exposure to chemicals and is therefore included in the following table:

ROUTES OF EXPOSURE	SYMPTOMS	TREATMENT
Inhalation	Dizziness, nausea, lack of coordination, headache, irregular and rapid breathing, weakness, loss of consciousness, coma	Bring victim to fresh air. Rinse eyes or throat with plenty of water, if irritated. If symptoms are severe (victim vomits, is very dizzy or groggy, etc.), evacuate to hospital. Be prepared to administer CPR if certified. Monitor victim for at least 48 hours.
Dermal	Irritation, rash, or burning	Flush affected area with water for at least 15 minutes. Apply clean dressing and get medical attention.
Ingestion	Dizziness, nausea with stomach, cramps, loss of consciousness, coma	Evacuate victim to hospital. Do not induce vomiting.
Eye	Redness, irritation, pain, impaired vision	Flush with an abundant amount of water for at least 15 minutes. If severe, seek medical attention immediately.

6.0 Equipment/Operational Hazards

The following sections will address the hazards, preventative measures, and first aid procedures associated with the drill rig, backhoes, and other heavy equipment. The drill rig used during these field activities generally requires the use of augers for probing. These augers are designed to rotate in a circular motion while being forced downward through the soil. Field personnel are required to assemble and disassemble these parts. Contact with these rotating parts is one recognized hazard. In addition, the machinery also contains parts that become increasingly heated during operation.

6.1 Hazard Identification

There are several hazards associated with use of any type of drill rig and heavy machinery while performing corrective action activities. Generally during these field operations, the general public may become fascinated with the operation and approach the work area. All unauthorized personnel are required to remain 100 feet away from the work area. The site HSO officer will be responsible for keeping all unauthorized personnel away from the work area. The hazards associated with the use of a drill rig or other heavy machinery is as follows:

- Gasoline vapors from nearby dispensers can potentially enter the diesel-operated engine thereby causing fire/explosion hazards
- Rotating augers may catch onto gloves or clothing thereby pulling hands arms into the rotating machinery
- Drilling equipment may rupture hydraulic hoses thereby releasing hydraulic fluids
- Engine and exhaust system of an engine are extremely hot during and following operation
- Potential contact with overhead and underground utilities
- Open excavations/boreholes can be the source of trips and falls
- Digging machinery such as backhoes may puncture subsurface utilities
- Operators of heavy machinery may be unable to locate pedestrians near the operating equipment; therefore, all field personnel are to remain with eye contact of the operator at all times during operation

6.2 Hazard Prevention

Hazards associated with heavy machinery can easily be avoided with additional planning. The key to avoiding these hazards includes being familiar with the equipment and the process. In addition, being familiar with and implementing the precautionary measures listed below may reduce or eliminate the risks of a hazardous situation.

- Wear hard hat when working near or around the machinery
- Wear safety glasses when performing maintenance to machinery or power tools
- Shut down the machine engine when repairing or adjusting equipment
- Prevent accidental starting of engine during maintenance procedures by removing or tagging ignition key
- Block wheels or lower leveling jacks and set hand brakes to prevent equipment from moving during drilling procedures
- When possible, release all pressure on hydraulic systems, drilling fluid systems, , and air pressure systems of heavy machinery prior to performing maintenance
- Know the location of the emergency shut-off switch for all equipment
- Avoid contact with engine or exhaust system of engine following its operation
- Avoid using gasoline or other volatile/flammable liquids as a cleaning agent on or around heavy machinery
- Replace all caps, filler plugs, protective guards or panels, and high-pressure hose clamps, chains or cables moved during maintenance prior to excavation

- Avoid wearing rings or jewelry during drilling or installation procedures
- Be aware of all overhead and underground utilities
- Avoid alcohol or other CNS depressants or stimulants prior to excavation
- Avoid contact with equipment parts during freezing weather. Freezing of moist skin to metal can occur almost instantaneously
- Shut all field operations during an electrical storm
- Do not operate heavy equipment within 20 feet of overhead power lines

6.3 Symptoms and First Aid Procedure

Hazards associated with heavy equipment were identified in Section 6.1. Unlike hazards associated with temperature or chemicals, symptoms will not be apparent with these types of hazards. In addition, these hazards will occur rapidly as opposed to over a period of time. Due to the size and composition of hydraulic vehicles, exposure to these hazards will range from extremely serious to life-threatening; therefore, CDG requires that exposed field personnel seek medical attention at the nearest medical facility and the Project Manager be notified immediately. A site location map to the nearest hospital is presented in Attachment B.

7.0 Temperature Hazards

Another hazard associated with corrective action activities involves working in extreme weather conditions. Temperatures in the Southeast USA during the spring, summer, and occasionally the fall seasons can vary from mild to extremely hot. During this season, extra precautions are necessary to prevent hazards associated with elevated temperatures, which result in various forms of heat stress. In addition, the Southeast is known for its rather mild winter condition; however, on occasion, the Southeast may experience freezing conditions; therefore, precautions are also necessary to prevent hazards associated with these extreme temperatures.

7.1 Heat

As stated in OSHA's regulatory guidelines for heat exposure operations involving high air temperatures, radiant heat sources, high humidity, direct physical contact with hot objects, or strenuous physical activities have a high potential for inducing heat stress. Additional factors to consider in the determination of heat stress on an individual include age, weight, degree of physical fitness, degree of acclimatization, metabolism, use of alcohol or drugs, and a variety of medical conditions such as hypertension (high blood pressure). The following sections will identify the hazards associated with heat stress, the measures needed in order to prevent exposure to these hazards, and first aid procedures in the event exposure to these hazards should occur.

7.1.1 Hazard Identification

Heat stress is a major hazard, especially for workers wearing protective clothing. Depending on the ambient conditions and the work being performed, heat stress can occur very rapidly- within as little as 15 minutes. The key to preventing excessive heat stress is educating personnel on the hazards associated with working in heat and the benefits of implementing proper controls and work practices. The hazards associated with heat stress range from heat fatigue (mild discomfort) to heat stroke (extreme danger, which may result in death, and are discussed in the following sections.

7.1.1.1 Heat Fatigue

Heat fatigue occurs due to a lack of acclimatization (adjusting one's tolerance to work in elevated temperatures). Acclimatization is a gradual process. This process should include all field personnel being permitted to work in elevated temperatures in specified increments. On a daily basis, the maximum allowable work period should gradually be increased until the worker is able to perform his/her duties more proficiently under these conditions. The use of an acclimatization program is recommended in the regulatory guidelines established by OSHA.

7.1.1.2 Heat Rash

Heat rash (prickly heat) is the most common heat stress factor and may result from continuous exposure to heat or humid air where the skin remains wet due to lack of evaporation. Under these conditions, sweat ducts become plugged, and a skin rash appears, generally in areas where clothing is restrictive. This uncomfortable rash can be prevented by resting in a cool place during breaks and by implementing good daily personal hygiene.

7.1.1.3 Heat Collapse

Heat collapse is commonly referred to as "fainting." Fainting generally occurs when the brain does not receive enough oxygen. As a result of this condition, the exposed individual may lose consciousness. Heat collapse is rapid and unpredictable; therefore, acclimatization is an important factor in preventing this condition.

7.1.1.4 Heat Cramps

Heat cramps are muscular spasms, which usually occur in the abdomen or limbs due to loss of electrolytes following profuse sweating. Cramps are caused by either too much or too little salt intake. During the sweating process, salt exits the body; therefore, without the proper replenishment, the body experiences an electrolyte imbalance thereby inducing heat cramps. Thirst cannot be relied upon as a guide to the need for water. When working in hot environments, water must be replenished every 15 to 20 minutes.

7.1.1.5 Heat Exhaustion

Heat exhaustion is a result of overexertion in hot or warm weather. It is highly possible for an onsite worker to experience heat exhaustion due to the use of worker-protective coveralls, boots, gloves, and respirator protection, even when ambient temperatures are mild. Fainting may also occur with heat exhaustion. This can become an extreme hazard if operating heavy machinery.

Caution: Individuals with heart problems or on a “low sodium” diet who work in these environments should consult a physician and Corporate HSO prior to working in these conditions.

7.1.1.6 Heat Stroke

Heat stroke is the most severe form of heat stress. The body’s temperature control system is maintained through sweat production. Perspiration is a cooling process for the body and keeps the body core temperature within a stable range. During heat stroke, sweat production is inhibited and the body temperature begins to rapidly rise. Brain damage and death may occur if body core temperature is extremely elevated and is not reduced.

7.1.2 Hazard Prevention

Hazards associated with temperature extremes can also be prevented with additional planning and preparation. The hazards associated with temperature can range from heat fatigue to heat stroke as described previously in Section 7.1.1. Measures to ensure the prevention of temperature hazards are as follows:

- Adhere to acclimatization process by exposing field personnel to progressively longer periods of time in hot environments.
- Schedule work for early morning or evening during warm weather
- Work in shifts; limit exposure time of personnel and allow frequent breaks
- Have cool liquids at an Exclusion Zone border for exposed personnel to continuously replace body fluids. As stated in the previous section, OSHA recommends that fluids, preferably water and/or a water-electrolyte solution be replenished every 15 to 20 minutes.
- Avoid caffeine and alcoholic beverages both during work hours and 24 hours prior to performing field activities

The site HSO or designee should continually monitor personnel for signs of heat stress. If any signs of heat disorders are apparent, all field personnel must immediately rest and replenish fluids until body core temperature is lowered and remains stable.

7.1.3 Symptoms and First Aid Procedures

As discussed previously in Section 7.1.1, hazards associated with heat stress range from heat fatigue to heat stroke. Taking precautionary measures to ensure that personnel are not exposed to extreme temperatures for

long periods of time can prevent these hazards. First aid measures for heat fatigue, heat rash, and heat collapse include taking frequent breaks so that the body core temperature can cool down. The following table includes first aid measures for signs of overexposure to heat.

TEMPERATURE HAZARDS	SYMPTOMS	TREATMENT
Heat Fatigue	Impaired performance of skilled sensorimotor, mental or vigilance jobs	No known treatment. Victim should be placed under cooler conditions until body core temperature lowers.
Heat Rash	Rash due to plugged sweat ducts, generally where clothing is restrictive	Keep dry towels or paper towels at the site to dry skin when excessive sweating occurs. Rash usually disappears when affected individual returns to cooler environment.
Heat Collapse	Loss of consciousness	Attempt to awaken individual. Relocate victim to a cooler area until body core temperature lowers and replenish fluids. Victim should rest for a few days.
Heat Cramps	Uncontrollable muscle spasms	Apply warm, moist heat and pressure to reduce pain. Give electrolyte drinks by mouth. Victim should intake additional potassium (Bananas are good potassium source).
Heat Exhaustion	Pale, clammy skin, profuse perspiration, weakness, headache, and nausea	Get victim into shade or cooler place. Immediately remove any protective clothing. Victim should drink plenty of fluids. Victim should lie down with feet raised. Fan and cool victim with wet compresses. If vomiting occurs, transport to hospital. Victim should rest for a few days.
Heat Stroke	Pale, dry skin due to lack of perspiration, weakness, unconsciousness	Immediately take precautions to cool body core temperature by removing clothing and sponging body with cool water, or placing in tub of cool water until temperature is lowered sufficiently (102°F). Stop cooling and observe victim for 10 minutes. Once temperature remains lowered, dry person off. Use fans or air conditioning, if available. Do not give the victim stimulants. Transfer to medical facility. Under no condition is the victim to be left unattended unless authorized by a physician.

8.0 Explosion/Electrocution Hazards

As stated previously in Section 4.1, extensive efforts are made in order to determine the location of subsurface utilities prior to corrective action activities. Efforts are made to obtain the location of underground utilities through the Line Locator Services, and utility companies are notified in advance to perform a site inspection and utility marking; however, the potential for a subsurface utility to go unnoticed exists. Therefore, the hazards associated with exposure to these utilities are identified and preventative measures and first aid procedures are discussed further in the following sections.

8.1 Explosion

Primarily when dealing with subsurface utilities, two potentially life-threatening hazards exist. The first hazard identified in association with subsurface utilities during excavation activities are discussed further in the following section.

8.1.1 Hazard Identification

The main hazard associated with puncturing a subsurface utility gas line is explosion. By releasing gas (usually natural gas, which is generally methane gas or propane gas) into the atmosphere, explosive conditions are favorable; therefore, ignition sources must be immediately eliminated in the event a gas release occurs. Due to the flammability of gasoline, ignition sources will be minimized; however, the engines are needed during field activities. Therefore, the only alternative to reducing the explosion hazard is to stop the release as soon as possible. However, when dealing with gases under pressure, the volatilization process may occur at such a rapid speed that an explosive situation is inevitable.

8.1.2 Hazard Prevention

Preventative measures are ensured prior to field activities. These measures generally encompass locating subsurface utilities. In addition, CDG will request local utility companies to perform site inspections and mark all subsurface utilities. In addition to this notification, if a particular subsurface utility is not identified and CDG suspects the utility to exist, CDG will take additional precautionary measures to ensure the suspected utility does not exist. These measures generally include locating utility meter boxes, etc. In addition, a field technician or subcontractor will generally probe the ground with a small rod in order to possibly identify the existence of subsurface utilities. This is conducted usually when machinery reaches 2-3 feet below the ground surface (ft-bgs).

8.2 Electrocutation

8.2.1 Hazard Identification

The main hazard associated with puncturing a subsurface electrical line or coming into contact with an overhead power line is electrocution. When dealing with electricity, all things are classified as either conductors or insulators. Conductors allow electricity to pass through them while insulators prevent electricity to pass through. Examples of conductors are metals, wood, and water, and examples of insulators are rubber and PVC. Humans are also classified as conductors; therefore, contact with electrical sources can be fatal.

Because the heavy machinery is metal, which has been classified as one of the best sources of electrical conduction, contact with exposed electrical lines will allow current to flow. The National Electrical Code (NEC) has determined that 20 milliamps (mA) of current can be fatal. For comparison, a common household circuit breaker may conduct 15, 20, or 30 amps of electrical current.

8.2.2 Hazard Prevention

As stated previously in Section 8.1.2, preventative measures to locate subsurface and overhead electrical lines prior to corrective action activities are required by CDG. CDG will notify local utility companies to provide a site inspection and mark any existing subsurface electrical lines. In addition, CDG will contact the local power provider to insulate overhead lines if necessary. When dealing with the electrical components of the dewatering system, the following precautionary measures may prevent exposure to electrocution:

- Avoid contact with exposed connections/wiring and other related components
- If unfamiliar with the system, do not attempt contact with any component
- Call the Project Manager if unsure of any connections associated with the operations of the system.

8.2.3 Symptoms and First Aid Procedures

As discussed previously in Section 8.2.1, the hazard associated with puncturing subsurface electrical utilities and contacting electrical components of dewatering system is electrocution. The primary route of exposure is contact. The transmission of electricity is allowed because the metal equipment serves as a conductor for electrical current. Symptoms and treatment for exposure to electrical current is presented in the following table:

Caution: NEVER attempt to dislodge or remove someone that is contacting a high voltage line Use an insulating material (PVC) to release the victim from the electrocution source.

9.0 Miscellaneous Hazards

The last hazard identified when performing corrective action activities has been classified as miscellaneous hazards due to the variety of these hazards. These hazards generally are nothing more than nuisances and with additional planning should be entirely avoidable; however, there are instances in which exposure to these hazards will occur. Therefore, these hazards are identified, and preventative measures and first aid procedures are discussed in further detail in the following sections.

9.1 Hazard Identification

Occasionally, exposure to common nuisances may potentially result in a life-threatening situation. For example, a wasp or bee sting for some individuals only causes irritation or localized soreness; however, to others with little tolerance for wasp or bee venom, an allergic reaction can result which could potentially lead to death if not treated immediately. Therefore, allergic reactions to these insects have been identified as a potential hazard. In addition to the insects, contact with black widow spiders (red hourglass), brown recluse spiders (violin shape on back), and snakes are also potential hazard.

9.2 Hazard Prevention

Prevention, with regards to miscellaneous hazards, is more difficult to plan ahead. Generally, prior to conducting corrective action activities, the primary location for the activities has been established; therefore, barricades such as cones and company vehicles can be placed around the work area to prevent exposure to incoming and ongoing vehicles. However, the limitation to using cones is that they are often small and unnoticeable to drivers once inside the vehicles; therefore, the best prevention with regards to this miscellaneous hazard is to constantly be aware of your surroundings. This preventative measure can also be applied to exposure to insects, snakes, and spiders. Be aware of your surrounding when working around dark, secluded areas such as cracks and crevices, where snakes, spiders, and mice like to hide.

9.3 Symptoms and First Aid Procedures

If an employee or subcontractor shows any signs of an allergic reaction (anaphylactic shock, hives, or difficulty breathing) to a sting or bite, immediately seek medical attention at the nearest hospital. In the event that an operating vehicle strikes a person, seek medical attention immediately. In the meantime, a first aid kit and eye wash bottle will be provided by CDG and should be kept in all company vehicles. If field personnel are aware of their allergic reactions to insect bites, CDG requires that medication be kept on hand during field activities and at least one other field technician be made aware of the medication in the event of an allergic reaction should occur.

10.0 Additional Precautions

Additional precautions have been implemented in order to ensure overall safety for all field personnel. The safety protocols listed in this segment are to be considered the minimum requirements to be met by all field personnel engaging in corrective action activities.

10.1 Personal Protective Equipment

PPE is the most effective measure to prevent exposure to chemical hazards. There are four levels of PPE protection ranging from Level A to Level D equipment. Level A protection serves as the most conservative protective equipment, and Level D protection serves as the least conservative protective equipment. These levels are described further in the following table:

LEVELS OF PPE PROTECTION	PPE REQUIREMENTS
Level A	Worn when the highest level of respiratory, skin, and eye protection is necessary.
Level B	Worn when the highest level of respiratory protection is needed, but a lesser level of skin protection is necessary.
Level C	Worn when the criteria for using air-purifying respirators are met, and a lesser level of skin protection is necessary.
Level D	Refers to work conducted without respiratory protection. This level should be used only when the atmosphere contains no known or suspected airborne chemical or radiological contaminants and oxygen concentrations are between 19.5 % and 23.0%

Level D protective clothing, as indicated below, shall be considered the minimum requirements for installation and excavation operations:

- Hard hat
- Coveralls*
- Non permeable gloves
- Steel-toe, non-permeable boots
- Hearing protection*
- Safety goggles (chemical)*

*These items are mandatory on an “as needed” basis. Generally, normal site conditions do not warrant the use of this equipment; however, under certain conditions where large amounts of free product are encountered, the issue of coveralls and safety goggles may be warranted. Safety goggles and hearing protection are mandatory when near the drill rig to reduce stress on the ear and also prevent objects from the soil or drill rig from lodging in the eye.

Equipment may be upgraded to Level C depending on the site conditions and/or monitoring results. Level C protection, in addition to Level D protection, includes the following:

- Rubber/chemical resistant outer gloves
- Face-shield if splash hazards exist
- Outer disposable booties
- Half-mask respirator

10.2 Signs, Signals, and Barricades

As stated previously in Section 9.1, corrective action activities are generally conducted at retail gasoline facilities and convenience stores, and are therefore, high traffic areas. All CDG field personnel must be aware of his/her surroundings at all times. In addition, the items listed below will be provided to secure the area in order to protect all field personnel as well as the general public.

- Utilize barricades to protect workers, pedestrians and vehicles from work activities
- Post area for “NO SMOKING”
- Utilize cones to protect workers from incoming and ongoing vehicles

10.3 Fire Protection and Prevention

As stated previously in Section 5.1, gasoline is a highly flammable substance. CDG requires that the work area be posted with “NO SMOKING” signs in an attempt to prevent fires from occurring; however, as a secondary precaution CDG plans to implement the following:

- Maintain a 20 lb. ABC Dry Chemical fire extinguisher on site at all times
- Eliminate ALL ignition sources in the vicinity of any releases
- The contractor will clean up all small spills using absorbent materials or by pumping

10.4 Storage and Decontamination

During the corrective action activities, impacted soils will be encountered. Groundwater will be treated and pumped to an NPDES outfall. Contaminated soil will be temporarily stored until transported for disposal. Decontamination procedures will be implemented should chemical exposure occur. The procedures are detailed below:

- Avoid contact with liquid gasoline or diesel
- Place contaminated soil on visqueen and cover once removed from the excavation
- Change any product contaminated soil immediately
- Wash any contaminated skin surfaces immediately with soap and water

Caution: All personnel are required to wash hands at the completion of work, before and after restroom use and before eating in order to prevent dermal contact with or ingestion of contaminants encountered during field activities.

11.0 Emergency Contingency Plan

If an incident occurs that requires declaring an emergency, all personnel will assemble at a designated emergency meeting location for further instruction. Arrangement for decontamination, evacuation and/or transport will be made at that time. The client and appropriate CDG personnel will be notified of the incident as soon as possible.

11.1 Notification/Reporting Procedures

In the event of an emergency, CDG Project Manager will be notified as soon as possible regarding the nature of the incident and emergency service contact will be notified as needed (see Section 11.7, Contingency Contacts). It is the responsibility of the Site HSO to report all incidents to the CDG Corporate HSO so that the required reporting procedures may be implemented.

11.2 Hazardous Substance Release

In the event that potentially hazardous substances migrate from the work zone and potentially endanger unprotected personnel or the community all on site activities will cease until the release is brought under control. CDG will immediately notify the proper authorities so that they may be able to ensure that public health and safety is maintained throughout this process event to the extent of evacuation if necessary.

11.3 Personnel Injury

In the event of an injury, all personnel will assemble at the designated emergency meeting location. The Site HSO, prior to the beginning of filed activities should designate this location. If the injured person is immobile one or more persons should remain nearby to provide any necessary first aid techniques. If medical help is necessary, the Site HSO will summon the appropriate assistance for transportation to the nearest medical facility. Due to the potential for these situations, CDG recommends that at least one qualified person be CPR/First Aid certified.

11.4 Evacuation Plan

Gasoline and diesel are flammable substances; therefore, a fire/explosion potential exists during the excavation activities. In the event of an onsite evacuation, the following plan will be implemented:

- A signal consisting of one continuous blast of a vehicle or air horn will be used
- All personnel will immediately evacuate the area and report to the designated emergency meeting location for further instruction

11.5 Spill Prevention and Response

In the event of a leak or spill, the area will be blocked using barricades, and the spill contained until absorbed and removed by authorized personnel. Unauthorized persons will be denied access to the area until all spills have been removed and field operations completed. CDG will follow prescribed procedures for reporting and responding to large releases by notifying the National Response Center (see Section 11.7). All materials will be disposed of according to regulatory guidelines.

11.6 Emergency Communication

In the event of an emergency situation, the following standard hand signals will be used onsite as a means of communication:

- Hand gripping throat (cannot breathe)
- Grip partner's wrist or both hands around waist- (leave area immediately)
- Hands on top of head- (need assistance)
- Thumbs up- (OK, I am all right, I understand)
- Thumbs down- (No, negative)

11.7 Contingency Contacts

In the event of an emergency, CDG has provided several emergency contacts. These contacts, along with phone numbers, are listed in the following table. The Site HSO will be responsible for the notification of these contacts in the event of an emergency.

AGENCY	CONTACT	TELEPHONE NO.
Fire Department		911
Police Department		911
Ambulance		911
Hospital		1-334-283-6541
Corporate HSO	David Dailey or Alan Barck	1-205-403-2600 or 1-334-222-9431
Project Manager	April Harrelson	1-334-222-1162
EPA RCRA-Superfund Hotline		1-800-424-9346
Chemtrec (24 hours)		1-800-424-9300
Bureau of Explosives (24 hours)		1-202-293-4048
Centers for Disease Control (Biological Agents)		1-404-633-5353
National Response Center		1-800-424-8802

Medical Facility

Name of Hospital: Community Hospital

Address: 805 Friendship Road Tallassee, AL 36078-1234

Phone: 334-283-6541

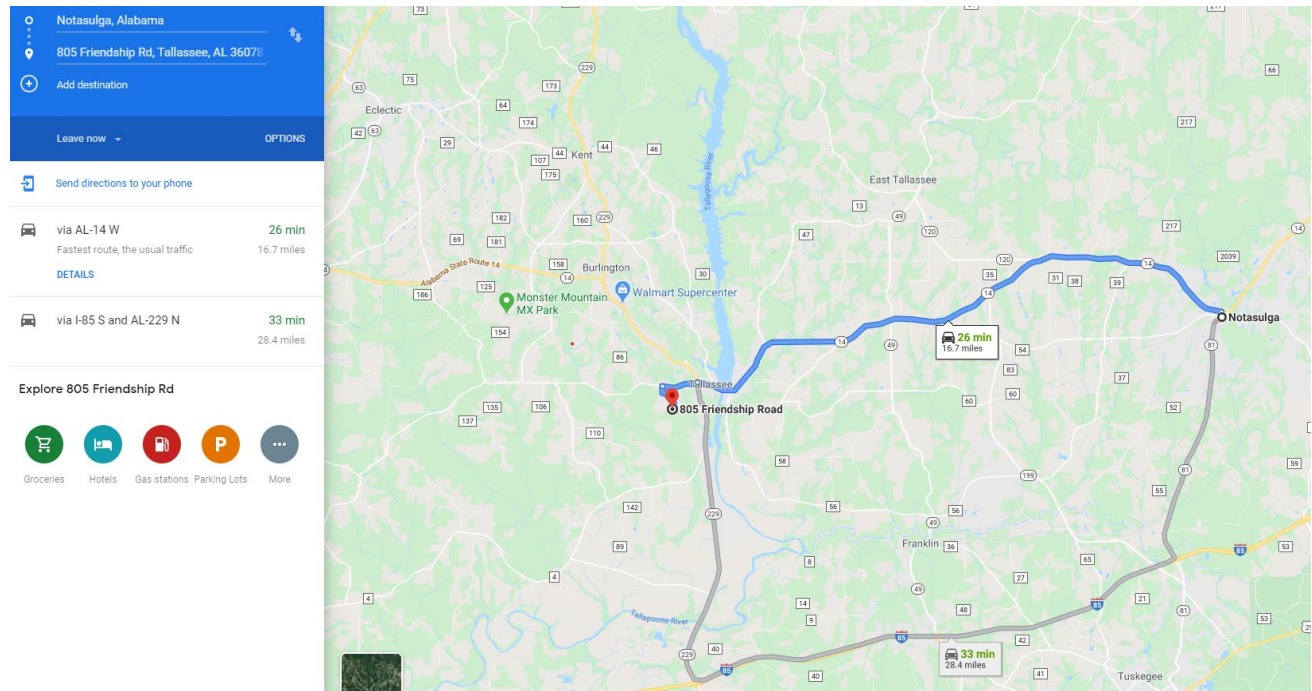
Route to Hospital: See attached map with driving directions.

Travel Time from Site: 12 minutes

Distance to Hospital: 4.5 miles

Name/Number of 24-hour Ambulance Service: 911

In cases of construction accidents, rapid notification to OSHA is required.





Engineering. Environmental. Answers.

Tasks Performance Summary

APPENDIX F

TASK PERFORMANCE SUMMARY

CAP MODIFICATION REPORT

Notasulga Fina

Alabama Highway 14

Notasulga, Macon County, AL

Task Completed by Personnel/Title:	Griffin Gatschet, P.E./P.G.	Alan Barck, P.E./P.G.	April Harrelson, PM	Ray Hollinghead, Drafter	Kim Ballard, Admin	Leigh Caylor, Admin	Patricia Horwath, Admin
Project Management			PM				
Work Plan Preparation/Review			PM				
Cost Proposal Preparation/Review	X		PM		X	X	
Field Work							
Data Interpretation/Tabulations			PM			X	X
Drafting				X			
Report Preparation/Review		X	PM		X		X
Payment Request Preparation/Review	X		PM		X		X

Notes:

DO=Drilling Oversight

BL=Boring Log Description/Soil Classification

WG=Well Gauging

GSC=Groundwater Sample Collection

MEME=MEME Oversight

PM=Project Management

O&M=Routine Operation & Maintenance

HRS=High Resolution Study

VM=Vapor Monitoring

FC=Fan Check