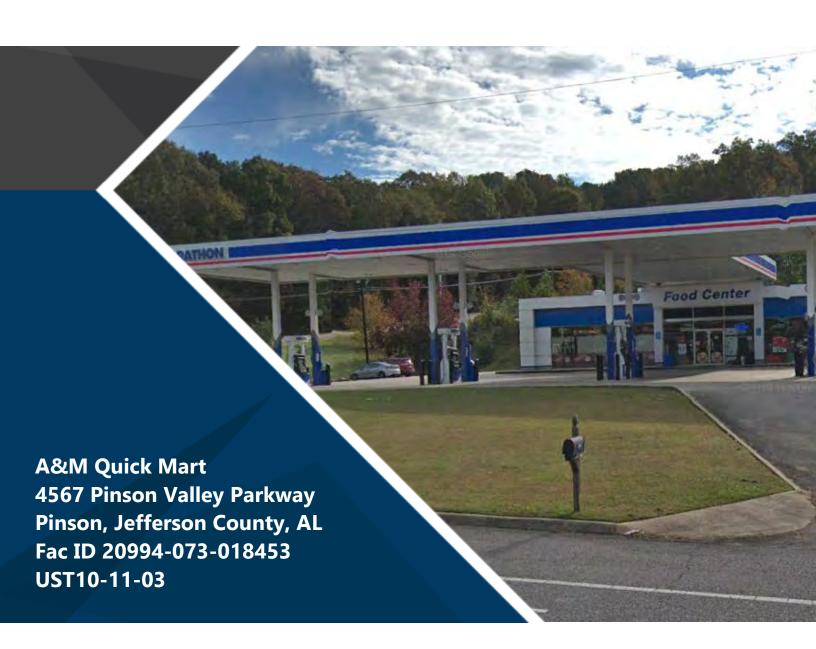


# **A&M QUICK MART**

CAP DEVELOPMENT REPORT
ATTF CP-35



# PREPARED FOR

Mr. Mike Singh 7845 Ware Drive Pinson, AL 35126

# **DATE**

November 30, 2021

#### **PREPARED BY**

CDG Engineers & Associates, Inc. 3 Riverchase Ridge Hoover, Alabama 35244

#### **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 A&M Quick Mart site (Facility Identification Number 20994-073-018453) in Pinson, Jefferson County, Alabama. The recommended action should not be construed to apply to any other site.

Signature /

Jessica Henson

Registered Engineer in the State of Alabama

Registration No. 38604

#### INTRODUCTION

The A&M Quick Mart site is located at 4567 Pinson Valley Parkway in Pinson, Jefferson County, Alabama, and currently operates as a retail gasoline station and convenience store. More specifically, the site is located at 33° 39′ 19.97″ north latitude, 86° 42′ 41.80″ west longitude. Two 12,000-gallon underground storage tanks (USTs) are located at the facility. The USTs are located in the tank pit near the southwest portion of the property. The Alabama Tank Trust Fund (ATTF) responsible party for the A&M Quick Mart site is Mr. Mike Singh.

In November 2006, the southwest adjacent property owner (Calvary Hill Holiness Church) complained of gasoline vapor in the church building and the domestic water supply well. Following the complaint, Gallet & Associates, Inc. (Gallet) began work under the federal Leaking Underground Storage Tank (LUST) Trust Fund. Analysis of a groundwater samples collected reportedly indicated that Chemicals of Concern (COC) were present above the Alabama Department of Environmental Management (ADEM) Initial Screening Levels (ISLs).

Following an inspection of the site which indicated that a release of petroleum products had occurred, ADEM simultaneously issued a Notification of Requirement (NOR) to conduct a system tightness test, preliminary investigation and corrective actions, Notification of ATTF Eligibility, and a Pre-Approval of Cost Proposal CP-01 for a Preliminary Investigation and Secondary Plan Development in correspondence dated December 2, 2009.

To date, a Preliminary Investigation, Secondary Investigation, Additional Secondary Investigation, Alabama Risk Based Corrective Action (ARBCA) Tier I/Tier II Evaluation, Pilot Study, Corrective Action Plan (CAP) Evaluation, groundwater monitoring, and Mobile Enhanced Multi-Phase Extraction (MEME) events have been conducted at the site. Currently, there are a total of twenty-three Type II monitoring wells and five Type III vertical delineation wells at the site.

Topographically, the site is in an area of moderate relief in northeastern Jefferson County. The subject property is located at an elevation of approximately 690 feet above the national geodetic vertical datum (NGVD). The terrain in the immediate vicinity of the site slopes moderately upward toward the southeast. The regional topography generally rises upward before sloping to the east. The site is located within a primarily commercial use area. A topographic map identifying the general location of the site and a site diagram are located in Appendix B.

A water well inventory has been completed for the area surrounding the site. Results of the survey show that there are no public water supply wells located within one mile of the site. Municipal drinking water for the site is supplied by the City of Birmingham. As a part of the water well inventory, a site reconnaissance was performed by walking public access areas within ¼ mile of the site. No active private wells were confirmed within a 1/4-mile radius of the site. However, two inactive private wells were identified within a 1/4-mile radius. Basements were not noted in any of the surrounding structures. No sensitive receptors were identified within a ¼ mile radius of the subject site.

On January 6, 2021, CDG Engineers & Associates, Inc. (CDG) was retained by Mr. Mike Singh to perform all UST contractor responsibilities for the site. CDG submitted a CAP Evaluation Report on July 9, 2021. ADEM approved the CAP Evaluation Report on September 3, 2021. Also on September 3, 2021, ADEM approved Cost Proposal CP-35 for CAP Development.

#### **SUMMARY OF PREVIOUS SITE INVESTIGATIONS**

In November 2009, the Calvary Hill Holiness Church located southwest of the A&M Quick Mart facility reported gasoline odor being present in both the church building and domestic water supply well. In correspondence dated December 2, 2009, ADEM issued a NOR to conduct a System Tightness Test, Preliminary Investigation and Corrective Actions. In addition, a Pre-Approval of Cost Proposal CP-01 for Preliminary Investigation and Secondary Plan Development, as well as a Notice of ATTF Eligibility were also issued in correspondence dated December 2, 2009.

During the Preliminary Investigation, five Type II monitoring wells were installed at the site. Soil and groundwater samples collected during the Preliminary Investigation revealed that concentrations of COC were present in two of the five monitoring wells. Free product was observed to be present in MW-3 and MW-4.

Based on the results of the Preliminary Investigation, PRE submitted the Secondary Plan and Cost Proposal CP-02 which was subsequently approved by ADEM. During the Secondary Investigation conducted during October 2010, seven Type II monitoring wells and one Type III monitoring well were installed at the site. COC concentrations were present in excess of the ADEM ISLs in two of the eight newly installed monitoring wells. Free product was observed to be present in MW-4. At the conclusion of the Secondary Investigation, PRE recommended additional wells be installed both on-site and off-site to further delineate the hydrocarbon plume.

Following a review of the Secondary Investigation report, ADEM requested that before additional wells be installed, a site wide groundwater monitoring event should be completed, including the two private wells, and each of the monitoring wells installed on the adjacent property under LTF-1538.

In correspondence dated April 29, 2016, ADEM approved CP-15 for an Additional Secondary On-Site Investigation. PRE installed an additional six Type II monitoring wells and four Type III monitoring wells in July 2016. Groundwater samples collected during the Additional Secondary On-Site Investigation revealed that concentrations of COC were present in five of the ten newly installed monitoring wells.

#### SUMMARY OF PREVIOUSLY CONDUCTED CORRECTIVE ACTION

To date, MEME events have been conducted at the A&M Quick Mart site.

#### REMEDIAL OBJECTIVES AND EXPOSURE ASSESSMENT

# **General Remedial Objectives**

The general objectives of this corrective action plan and the remedial efforts for the facility are as follows:

- Ensure that the health and safety of all project personnel is maintained during remediation activities.
- Prevent hydrocarbon contaminant migration to sensitive receptors.
- Reduce adsorbed phase petroleum hydrocarbons from soils within the vadose and saturated zone, to below approved Site Specific Target Levels (SSTLs).
- Reduce dissolved petroleum hydrocarbons from groundwater to below approved SSTLs.
- Accomplish these objectives within the proposed period of operation.

#### **Exposure Assessment**

An exposure assessment was conducted by PRE during the ARBCA evaluation. The current land use site conceptual exposure model indicates that complete exposure pathways exist on-site for outdoor vapor inhalation from soil and groundwater for commercial and construction workers. Complete exposure pathways also exist on-site for future conditions of indoor and outdoor inhalation of vapor from impacted soil and groundwater for on-site commercial and construction workers. The current and future land use site conceptual exposure model indicates that complete exposure pathways exist off-site for ingestion of groundwater for off-site residents and commercial workers. Complete exposure

pathways also exist for current and future outdoor inhalation from soil vapors for commercial and construction workers as well as indoor and outdoor inhalation from groundwater vapors for commercial and construction workers.

Future land use of the site and the surrounding area is expected to remain the same. There are no public water supply wells located within one mile of the site. There are two domestic water supply wells located within 1,000 feet of the site which are currently inactive.

#### **Site Specific Target Levels**

To assess the risk to human health and the environment of the dissolved hydrocarbon plume associated with the A&M Quick Mart site, an ARBCA Tier I/Tier II evaluation was completed for the site. Details of this evaluation are contained in a report submitted to ADEM on dated January 14, 2012. Based on the ARBCA Tier II evaluation, SSTLs were calculated for the various media (soil and groundwater) at the site. The SSTLs developed during this process are petroleum hydrocarbon levels that would not pose a significant risk to any recognized actual or potential receptors. The individual Groundwater Resource Protection (GRP) SSTLs generated for each of the site monitoring wells are presented on the attached Monitoring Point Data Summary Tables located in Appendix A and are summarized in Appendix C.

# RECENT MONITORING ACTIVITIES, RESULTS, AND COMPARISONS TO SSTLS

As part of CAP development, current representative concentrations for the 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 conducted. The most recent groundwater monitoring event was completed on September 7, 2021.

#### **Groundwater Monitoring Activities**

Personnel from CDG mobilized to the A&M Quick Mart site on September 7, 2021 to collect groundwater samples for BTEX/MTBE/Naphthalene analyses. Upon arriving at the site, the technician removed the well caps from a total of fourteen monitoring and recovery wells (ODW-1 was located but blocked by a vehicle). The water levels in the wells were allowed to stabilize. Water levels were then measured with an electronic water level indicator and recorded in the site field book. Monitoring well MW-10 was observed to be dry. After all measurements were completed, the wells were sufficiently purged by the removal of approximately 118.0 gallons of purge water which was treated using a portable carbon unit and released on-site.

Groundwater samples were collected and analyzed from thirteen monitoring and recovery wells 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 where they were analyzed by EPA Method 8260B for the presence of BTEX/MTBE/Naphthalene constituents.

# **Laboratory Analytical Results**

The BTEX/MTBE/Naphthalene analyses for this event indicate that COC concentrations were present at the site at levels above the GRP SSTLs in four (MW-6, MW-12, MW-19, and DPVE-1) of the thirteen sampled monitoring and recovery wells. All COC concentrations were reported to be below the established SSTLs for Indoor Air Inhalation. The concentrations above the approved SSTLs are as follows:

	Chemical of Concern	<b>GRP SSTLs</b>	Indoor Inhalation SSTLs	<b>Concentration</b>
MW-6	Benzene	0.00598 mg/L	-	0.042 mg/L
	Naphthalene	0.0239 mg/L	-	0.057 mg/L
MW-12	MTBE	0.0239 mg/L	-	0.118 mg/L
	Benzene	0.00598 mg/L	-	0.381 mg/L
	Naphthalene	0.0239 mg/L	-	0.087 mg/L
MW-19	MTBE	0.0239 mg/L	-	0.217 mg/L
	Benzene	0.00598 mg/L	-	0.182 mg/L
	Naphthalene	0.0239 mg/L	-	0.040 mg/L
DPVE-1	Benzene	0.00598 mg/L	-	0.017 mg/L

#### REMEDIATION RATIONALE AND APPROACH

Based upon current constituent concentrations and the risk assessment results, there are exceedances in the SSTL COCs. The proposed corrective action involves use of quarterly remediation by natural attenuation (RNA) in addition to monthly MEME events with air sparge. This corrective action would provide the most economical use of resources and allow natural attenuation to continue to reduce contaminant concentrations.

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, when used in conjunction with MEME/AS events. If COC concentrations increase based on future monitoring results, the CAP approach should be re-evaluated.

The MEME unit operates with continuously monitored off-gas treatment (thermal destruction). Recovered groundwater (and free product) will be pumped to a temporary storage tank for later disposal by the MEME subcontractor at an approved facility according to ADEM requirements. Prior to recovery activities, static water levels in all extraction wells will be recorded. A drop-tube will be inserted into the extraction wells and lowered as necessary to maximize recovery. Applied vacuums in the extraction wells and casing vacuums in surrounding monitoring wells will be recorded periodically during operations. Water level measurements will also be obtained periodical from surrounding wells to determine the radius of influence. Measurements of flow and hydrocarbon concentrations will also be obtained periodically. Field measurements will be obtained using a calibrated FID instrument. Hydrocarbon removal rates will be calculated and plotted. Cumulative fluid recovery volumes will be measured and recorded to determine removal rates.

#### REMEDIATION RECOMMENDATION PLAN

The proposed corrective action at the A&M Quick Mart site involves the application of monthly MEME events with air injection in conjunction with quarterly natural attenuation monitoring. CDG recommends the installation of six Air Sparge (AS) wells within the source areas, converting one monitoring well (MW-6) into a recovery well, and installing two additional recovery wells. Proposed locations are shown in Appendix B. The Air Sparging events will be conducted in conjunction with the MEME events conducted by Brown Remediation, Inc. (Brown), or equivalent. Compressed air will be injected into the proposed AS points simultaneously with the extraction of soil vapor being accomplished through the MEME events. CDG recommends using a combination of existing wells and the newly installed recovery wells for the extraction. The Air Sparge events, along with the MEME events, would be anticipated to reduce the residual COC concentrations within the source area to levels below the approved SSTLs.

Six injection wells are recommended in the area around MW-6, MW-12, MW-19, and the two new recovery wells. The proposed air sparge wells around MW-6 will be completed with a hollow-stem auger to a depth of 45 feet below land surface (ft-bls), or until bedrock is encountered, whichever comes first. The proposed air sparge wells around RW-1 and RW-2 will be completed with a hollow-stem auger to a depth of 35 ft-bls, or until bedrock is encountered, whichever comes first. The six proposed AS wells will be completed with one-inch diameter schedule 40 PVC and will be screened with a 2-foot section of porous media sparge point placed at a depth of 43 feet to 45 feet for the 45-foot wells and 33 feet to 35 feet for the 35-foot wells. Graded filter sand (0.45-0.55 mm) will be emplaced around the screen, and a bentonite pellet seal will be placed on top of the sand pack. The remainder of the annulus will be sealed with a cement grout mixture. Locking watertight caps will be placed in the top of each well and 8-inch manholes with bolt down covers will be installed over the casings in a flush mounted concrete pad. The construction detail for a typical injection well is included in Appendix B.

CDG recommends the installation of two 4-inch recovery wells near MW-12 and MW-19. The wells will be drilled with an 8 ¼" OD hollow stem auger to a depth of approximately 30 ft-bls. The wells will be constructed with 15 feet of 4-inch diameter schedule 40 PVC casing and 15 feet of 0.020" slotted PVC screen with an attached silt trap. CDG also recommends overdrilling and converting MW-6 into a 4" Type II recovery well. The well will be drilled with an 8 ½" OD hollow stem auger to a depth of approximately 35 ft-bls. The well will be constructed with 25 feet of 4-inch diameter schedule 40 PVC casing and 10 feet of 0.020" slotted PVC screen with an attached silt trap. The annular space of each borehole will be filled with coarse graded 6/10 filter sand from the bottom of the borehole to a level one foot above the top of the screened interval. A one-foot granular bentonite seal will be placed above the sand pack and hydrated for at least two hours. The wells will then be grouted to a level just below the ground surface. Locking watertight caps fit with padlocks will be placed into the top of each well casing and an 8-inch diameter manway with a bolt down cover will be installed over each casing in a watertight flush-mounted concrete pad. A diagram of a typical Type II recovery well is included in Appendix B.

Soil samples will not be collected during well overdrilling activities on MW-6 since most of the recovered material will be the sand pack and additional well completion materials from the currently installed wells. However, soil samples will be collected during installation of the two proposed recovery wells (RW-1 and RW-2) and the six air sparge wells (AS-1 through AS-6). Samples will be selected based on the Photo Ionization Detector (PID) field screening method. During soil boring

advancement, representative portions of the soil from each sample interval will be retained for further analysis. One portion will be placed in a cooler on ice, for possible submission to the laboratory for analysis. The other portion will be allowed to volatilize for approximately one hour prior to head space analysis for organic vapors using a PID. The headspace of the samples will be analyzed with the PID, the values recorded, and the two samples with the highest levels of VOCs from the boring will be submitted for laboratory analysis.

Samples submitted for analysis will be placed into laboratory-supplied containers (4-ounce, unpreserved jars with Teflon-lined lids), placed on ice maintaining chain of custody protocol. Samples will be analyzed for BTEX/MTBE/Naphthalene using EPA Method 8260B.

Soil cuttings and construction debris will be placed in a roll-off container and disposed of at a permitted landfill. CDG will obtain a Solid Waste Disposal Permit prior to initiating drilling activities.

CDG will survey the location of each well referenced to site structures and measure the elevation of the wells referenced to a USGS Topographic map of the location. Each of the newly installed wells will be properly developed using new disposable plastic bailers. Approximately five well volumes will be removed from each well. Purge water generated from well development activities will be treated using a granular activated carbon filtration system prior to being discharged on-site. A sample of the treated water will be collected and analyzed for BTEX/MTBE/Naphthalene analysis by EPA Method 8260B to ensure breakthrough has not occurred. If evidence of free product is observed, purge water will be containerized and disposed of at an approved disposal facility.

#### **MEME Events**

CDG recommends that monthly 24-hour duration MEME events be conducted at the site in order to reduce dissolved hydrocarbon concentrations in the vicinity of MW-6, MW-12, and MW-19. Each 24-hour MEME event will be conducted using Brown, or equivalent. The primary objective will be vapor recovery and petroleum contact water (PCW) removal, utilizing total fluids extraction from the wells.

# **Air Sparge Events**

CDG recommends that monthly 24-hour duration air sparge events be conducted at the site in order to reduce dissolved hydrocarbon concentrations in the source area by stripping the contaminants by volatilization. Each air sparge event will be conducted simultaneously with MEME events. The primary objective will be to increase the COC recovery rate by introducing oxygenated air to enhance bio

degradation of the residual COC concentrations. It will be necessary to obtain an underground injection control (UIC) permit prior to conducting AS events. CDG will prepare a UIC permit application and submit it to the ADEM Permits Section.

#### **Natural Attenuation**

Groundwater sampling will be conducted on a quarterly basis. The twenty-eight existing wells and two proposed recovery wells will be sampled and gaged during each quarterly event.

The groundwater samples will be collected from the 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 using EPA Method 8260B. During each groundwater sampling event, all monitoring wells sampled will also be monitored for natural attenuation parameters (DO, pH, and ORP).

Once the COC concentrations are reduced to below the SSTLs, corrective action activities will be discontinued, and re-bound monitoring will be initiated. Should the COC concentrations remain above the SSTLs after a two-year period, CDG will re-evaluate the corrective plan. CDG will recommend the site for No Further Action (NFA) status once remediation goals are met.

# PROPOSED REPORTING REQUIREMENTS

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

# **Reporting of CAP Implementation**

This report will detail installation of the six injection wells, installation of two recovery wells, and conversion of one monitoring well to recovery well. In addition, the UIC Permit and Solid Waste Profile will be obtained under this cost proposal and a copy of the UIC Permit and Solid Waste Profile will be included in this report.

#### Reporting of Natural Attenuation with MEME/AS Events Effectiveness

CDG proposes to submit quarterly NAMR reports, which will summarize field activities and the progress of site groundwater constituent concentrations towards achieving approved corrective action levels. The following data will be included in each report: field activities performed, groundwater elevations, groundwater analytical results as compared to target levels, potentiometric surface maps, COC contour

maps, and MEME/AS data results. The reports will also include remediation effectiveness and recommendations concerning additional measures deemed necessary.

### **Request for Closure Evaluation of Corrective Action**

This report will include data that demonstrates that remediation goals have been achieved and will request a status of NFA for the site. Methods for abandonment of monitoring, recovery, and air sparge wells will be described.

#### **Well Abandonment**

This report will describe in detail the closure of the site and removal of all monitoring, recovery, and air sparge wells.

#### SCHEDULE OF IMPLEMENTATION

It is anticipated that the proposed corrective action plan will begin with the first MEME/AS and groundwater monitoring event following the approval of the CAP and UIC Permit. The following schedule indicates the timetable for major project events to be completed as part of this corrective action plan:

Time Following CAP	Project Event	Project Event
Approval (months)		Length
1	Well Installation	1 Week
1	UIC Permit	1 Week
0 – 24	Quarterly groundwater monitoring and monthly 24-	2 Years
	hour MEME/AS events, evaluation of performance,	
	and recommendations for further corrective action if	
	required	
25	Well abandonment; completion and submittal of final	2 Months
	report if allowable by ADEM	

# PROPOSED SAMPLING AND MONITORING ACTIVITIES

Once the CAP is approved, CDG proposes to prepare a UIC permit. CDG will submit a cost proposal for UIC permit prep and well installation in addition to cost proposals for RNA/MEME/AS events.

Following the approval of the CAP and UIC permit, monthly 24-hour duration MEME/AS events will be conducted at the site in order to reduce dissolved hydrocarbon concentrations in the source areas. During the events, atmospheric air will be injected into each of the proposed sparge points, while groundwater and soil vapor is extracted from designated recovery wells. The MEME events will be conducted using a mobile liquid ring Multi-Phase Extraction (MPE) system operated by Brown, or equivalent. 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 Brown, or equivalent, simultaneously with the MEME events.

Prior to the MEME/AS event, static water levels in selected wells will be recorded. Applied vacuum in the extraction well and casing vacuums in the observation wells will be recorded periodically during the event. Water level and vacuum measurements, to determine the radius of influence, will be obtained periodically from observation wells. Measurements of flow and hydrocarbon concentrations will also be obtained periodically. Field measurements will be obtained using a calibrated Flame Ionization Detector (FID) instrument. Hydrocarbon removal rates will be calculated and plotted.

Air will be injected into the AS points simultaneously. The AS points will be equipped with wellhead pressure gauges, flowmeters, and control valves. The air supply system will consist 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.

Groundwater samples will be collected from monitoring and recovery wells on a quarterly basis. All thirty wells will be gaged and sampled during each quarterly groundwater monitoring event.

The groundwater samples will be collected from the monitoring and recovery wells using new clean plastic bailers. Samples will be transferred to 40 mL glass VOA vials preserved with HCl for BTEX, MTBE, and naphthalene analysis in accordance with EPA Method 8260B. During each groundwater sampling event, all sampled 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 ADEM on a quarterly basis in the form of a RNA/MEME/AS Report. The report will include conclusions regarding the effectiveness of the recovery activities performed and recommendations for future site activities.



# **APPENDICES**

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# **TABLES**

**APPENDIX A** 

	Monitoring Point Data Summary Table									
SITE NAME:	SITE NAME: A & M Quick Mart				10-11-03	WELL ID:		MW-1		
INSTALLATION DATE:	01/25/10	WELL DEPTH (FT BTOC):	23.7	SCREEN LENGTH (FT):	18.7	CASING ELEV (FT ABOVE MSL):	677.53	WELL TYPE: DIAMETER (IN):	II 2	
Notes: BTOC (Below To	otes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

	POTENTIOM	ETRIC ELEVATIO	N SUMMARY	
MEASUREMENT	DEPTH TO WATER	ELEVATION (FT AROVE MEL)	FREE PRODUCT	PCW GALLONS
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED
01/26/10	9.61	667.92	-	-
01/27/10	9.83	667.70	-	-
01/29/10	10.39	667.14	-	-
10/19/10			RY	
07/11/11			RY	
11/27/12	44.50		RY	
03/13/13	14.53	663.00	-	-
06/04/13			RY	
09/19/13			RY	
04/03/14	14.41	663.12	-	-
07/15/14			RY	
10/15/14	18.98	658.55	-	-
01/28/15	20.39	657.14	-	-
07/19/16	21.96	655.57	-	-
08/08/16	21.31	656.22	-	=
02/01/17	13.65	663.88	-	-
03/23/17	21.17	656.36	-	=
11/20/17	23.00	654.53	-	-
03/01/18	10.22	667.31	-	-
07/25/18	22.97	654.56	-	-
02/25/19	7.81	669.72	-	-
06/26/19	21.78	655.75	-	-
10/11/19	22.20	655.33	-	1
02/25/20	8.35	669.18	=	-
06/11/20	21.47	656.06	-	-
09/18/20	23.02	654.51	-	-
03/24/21	12.14	665.39	-	5.0

INTRIN	ISIC GROUNDW	ATER DATA SUN	ИMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pН	(mV)
01/26/10	4.12	7.3	117
01/27/10	-	-	-
01/29/10	-	-	-
10/19/10		DRY	
07/11/11		DRY	
11/27/12		DRY	
03/13/13	0.80	6.1	-26
06/04/13		DRY	
09/19/13		DRY	
04/03/14	0.88	5. 8	-28
07/15/14		DRY	
10/15/14	0.91	6.1	6
01/28/15	1.05	6.6	-61
07/19/16	0.46	-	
08/08/16	-	-	
02/01/17	0.60	6.3	4
03/23/17	0.31	6.8	-31
11/20/17	-	-	
03/01/18	1.31	7.3	19
07/25/18	-	-	-
02/25/19	1.42	5.7	41
06/26/19	1.51	7.8	138
10/11/19	-	-	
02/25/20	1.88	8.1	45
06/11/20	1.74	8.0	146
09/18/20	-	-	-
03/24/21	5.56	6.36	127.2

	Monitoring Point Data Summary Table									
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:		MW-1		
INSTALLATION 01/25/10 WELL DEPTH 23.7 SCREEN 18.7 CASING ELEV 677.53 WELL TYPE: II DIAMETER (IN): 2								II 2		
Notes: BTOC (Below To	op of Casing); MSL (M	lean Sea Level); BDL (Belov	w Detection Limit)	; CA (Corrective Action)						

		GROUN	DWATER ANAL	YTICAL SUMMAR	Y (mg/L)		
SAMPLE DATE	МТВЕ	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
01/26/10	0.495	2.52	9.62	1.57	5.03	18.74	-
01/27/10				NOT SAMPLED			
01/29/10				NOT SAMPLED			
10/19/10				NOT SAMPLED (DRY	)		
07/11/11				NOT SAMPLED (DRY	)		
11/27/12				NOT SAMPLED (DRY	)		
03/13/13	0.331	1.19	1.93	1.46	2.29	6.87	-
06/04/13		•	•	NOT SAMPLED (DRY	)		•
09/19/13				NOT SAMPLED (DRY	)		
04/03/14	0.143	0.631	1.31	0.982	2.28	5.20	2.120
07/15/14				NOT SAMPLED (DRY	)		
10/15/14	0.116	0.832	2.03	2.13	4.52	9.51	0.512
01/28/15	0.124	0.498	0.536	1.41	1.80	4.24	0.210
07/19/16	0.227	0.561	2.02	0.813	4.99	8.38	0.498
08/08/16				NOT SAMPLED			
02/01/17	0.050	0.295	1.72	1.33	4.46	7.81	0.337
03/23/17	<0.05	0.393	0.32	1.24	0.986	2.94	0.231
11/20/17				NOT SAMPLED (DRY	)		
03/01/18	<0.05	<0.05	0.143	0.679	1.13	1.95	0.619
07/25/18				NOT SAMPLED			
02/25/19	<0.010	0.039	0.068	0.335	0.593	1.035	0.138
06/26/19	<0.01	0.036	0.084	0.427	0.681	1.228	0.211
10/11/19		•	•	NOT SAMPLED (DRY	)		•
02/25/20	0.005	0.02	0.037	0.196	0.329	0.58	0.065
06/11/20	0.019	0.009	0.002	0.057	0.027	0.095	0.025
09/18/20				NOT SAMPLED			
03/24/21	< 0.001	<0.001	<0.002	<0.001	0.004	0.004	<0.005
06/09/21				NOT SAMPLED			
09/07/21				NOT SAMPLED			
GRP SSTLs:	0.0239	0.00598	1.2	0.838	12	-	0.0239
Inhalation SSTLs:	16000	8.42	526	169	175	-	26.4

	Monitoring Point Data Summary Table									
SITE NAME:	SITE NAME: A & M Quick Mart				10-11-03	WELL ID:		MW-2		
INSTALLATION DATE:	01/25/10	WELL DEPTH (FT BTOC):	37.0	SCREEN LENGTH (FT):	34.0	CASING ELEV (FT ABOVE MSL):	676.70	WELL TYPE: DIAMETER (IN):	II 2	
Notes: BTOC (Below To	etes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

	POTENTIOM	TRIC ELEVATIO	N SUMMARY	
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED
01/26/10		NOT ME	ASURED	
01/27/10	10.53	666.17	=	-
01/29/10	11.07	665.63	=	-
10/19/10	31.71	644.99	-	-
07/11/11	21.88	654.82	ı	ī
11/27/12	26.45	650.25	-	ı
03/13/13	14.11	662.59	-	-
06/04/13	23.16	653.54	-	ı
09/19/13	28.03	648.67	-	-
04/03/14	14.31	662.39	-	-
07/15/14	27.38	649.32	-	-
10/15/14	16.57	660.13	-	-
01/28/15	19.69	657.01	-	-
07/19/16	22.44	654.26	-	ı
08/08/16	23.02	653.68	-	-
02/01/17	18.39	658.31	ı	ī
03/23/17	24.68	652.02	1	ī
11/20/17	26.04	650.66	ı	ī
03/01/18	10.25	666.45	-	-
07/25/18	26.49	650.21	-	-
02/25/19	7.76	668.94	-	1
06/26/19	25.17	651.53	-	-
10/11/19	26.71	649.99	-	1
02/25/20	8.06	668.64	-	-
06/11/20	23.25	653.45	-	-
09/18/20	27.24	649.46	-	-
03/24/21	12.24	664.46	-	6.5
06/09/21	18.17	658.53	-	8.0
09/07/21	18.63	658.07	-	6.0

INTRIN	ISIC GROUNDW	ATER DATA SUN	/IMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pH	(mV)
01/26/10	0.29	6.1	10
01/27/10	-	-	-
01/29/10	-	-	-
10/19/10	0.18	7.3	-92
07/11/11	0.47	5.7	-20
11/27/12	-	-	-
03/13/13	0.62	5.8	-20
06/04/13	0.31	6.6	-68
09/19/13	2.37	5.7	-18
04/03/14	0.73	6.0	-41
07/15/14	0.22	6.7	-64
10/15/14	1.46	6.2	5
01/28/15	0.83	6.1	-43
07/19/16	0.56	8.6	-109
08/08/16	0.23	6.3	39
02/01/17	0.26	6.4	36
03/23/17	1.42	7.5	-28
11/20/17	1.14	7.5	-2
03/01/18	1.22	7.5	-6
07/25/18	1.36	6.4	653
02/25/19	1.43	6.1	-48
06/26/19	1.52	6.4	-8
10/11/19	1.22	6.5	-6
02/25/20	1.68	8.0	51
06/11/20	1.33	7.1	72
09/18/20	0.35	6.7	133
03/24/21	3.79	6.36	120.7
06/09/21	1.78	5.37	-1.0
09/07/21	1.19	6.08	80.2

	Monitoring Point Data Summary Table								
SITE NAME: A & M Quick Mart UST NUMBER: 10-11-03 WELL ID: MW-2									
	INSTALLATION 01/25/10 WELL DEPTH 37.0 SCREEN 34.0 CASING ELEV 676.70 WELL TYPE: 1 DIAMETER (IN):							II 2	
Notes: BTOC (Below	Top of Casing); MSL (N	lean Sea Level); BDL (Belov	v Detection Limit)	; CA (Corrective Action)					

		GROUN	DWATER ANAL	YTICAL SUMMAR	RY (mg/L)		
SAMPLE DATE	МТВЕ	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
01/26/10	2.12	4.55	5.23	3.4	8.57	21.750	-
01/27/10			-	NOT SAMPLED			
01/29/10				NOT SAMPLED			
10/19/10	10.3	2.61	1.35	1.44	3.38	8.78	-
07/11/11	0.975	1.08	0.700	1.02	2.08	4.88	-
11/27/12	0.59	0.393	<0.001	0.567	0.467	1.427	-
03/13/13	1.22	1.78	1.22	1.88	2.54	7.42	-
06/04/13	1.28	1.49	0.721	2.04	3.39	7.64	-
09/19/13	3.08	1.61	0.436	1.16	1.16	4.37	-
04/03/14	0.880	0.17	0.639	1.19	1.82	3.82	0.212
07/15/14	1.13	0.478	0.053	1.01	0.628	2.17	0.358
10/15/14	0.168	0.134	0.056	0.251	0.211	0.652	0.126
01/28/15	1.12	1.11	0.234	1.61	1.43	4.38	0.295
07/19/16	0.104	0.133	0.114	0.445	1.29	1.98	0.361
08/08/16	0.12	0.123	0.073	0.375	1.21	1.78	0.306
02/01/17	0.099	0.097	0.051	0.225	0.050	0.423	0.126
03/23/17	0.030	0.070	<0.01	0.132	0.018	0.220	0.062
11/20/17	0.327	0.343	0.043	0.350	0.210	0.946	0.030
03/01/18	0.021	0.070	<0.01	0.149	0.040	0.259	0.163
07/25/18	0.206	0.080	<0.005	0.067	0.009	0.156	0.022
02/25/19	0.071	0.066	<0.005	0.174	0.086	0.326	0.039
06/26/19	0.096	0.079	<0.01	0.153	0.109	0.341	0.047
10/11/19	0.303	0.294	0.027	0.313	0.257	0.891	0.045
02/25/20	0.022	0.015	0.001	0.047	0.025	0.088	0.014
06/11/20	0.089	0.073	0.005	0.153	0.068	0.299	0.055
09/18/20	0.146	0.067	0.003	0.176	0.026	0.272	0.049
03/24/21	0.016	0.002	<0.002	0.004	<0.001	0.006	<0.005
06/09/21	0.005	0.004	<0.002	<0.001	<0.001	0.004	<0.005
09/07/21	0.006	0.001	<0.002	0.003	<0.001	0.004	<0.005
GRP SSTLs:	0.0239	0.00598	1.2	0.838	12	-	0.0239
Inhalation SSTLs:	16000	8.42	526	169	175	-	26.4

	Monitoring Point Data Summary Table										
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-3				
INSTALLATION DATE:	01/25/10	WELL DEPTH (FT BTOC):	34.4	SCREEN LENGTH (FT):	29.4	CASING ELEV (FT ABOVE MSL):	676.61	WELL TYPE: DIAMETER (IN):	II 2		
Notes: BTOC (Below To	otes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)										

	POTENTIOM	TRIC ELEVATIO	N SUMMARY	
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED
01/26/10	10.93	665.68	ı	ı
01/27/10	11.01	665.60	•	-
01/29/10	11.79	664.82	ı	ı
10/19/10	29.24	647.37	=	=
07/11/11	20.07	656.54	ı	ı
11/27/12	22.14	654.47	•	-
03/13/13	14.97	661.64	ı	ı
06/04/13	24.60	652.01	•	-
09/19/13	27.92	648.69	ı	ı
04/03/14	15.81	660.80	•	-
07/15/14	25.76	650.85	ı	ı
10/15/14	17.25	659.36	=	=
01/28/15	21.46	655.15	-	-
07/19/16	22.78	653.83	=	=
08/08/16	23.18	653.43	-	-
02/01/17	19.77	656.84	=	=
03/23/17	24.83	651.78	-	-
11/20/17	26.03	650.58	=	=
03/01/18	10.78	665.83	-	-
07/25/18	26.44	650.17	=	=
02/25/19	8.50	668.11		-
06/26/19	24.87	651.74	=	=
10/11/19	26.27	650.34		-
02/25/20	8.64	667.97	-	-
06/11/20	22.99	653.62	-	-
09/18/20	26.68	649.93	-	-
03/24/21	13.51	663.10	-	8.0

INTRIN	ISIC GROUNDW	ATER DATA SUN	/IMARY
CANADIE DATE	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	рН	(mV)
01/26/10	-	-	-
01/27/10	-	-	-
01/29/10	-	-	-
10/19/10	0.23	6.5	-75
07/11/11	0.48	5.4	-5
11/27/12	0.80	-	-
03/13/13	0.53	6.1	-39
06/04/13	0.18	6.6	-63
09/19/13	2.71	5.8	-47
04/03/14	0.79	5.9	-21
07/15/14	0.38	6.6	-55
10/15/14	1.16	6.5	-58
01/28/15	1.08	6.2	-55
07/19/16	0.32	7.5	-84
08/08/16	0.26	6.2	19
02/01/17	0.21	6.2	-21
03/23/17	0.92	7.6	-28
11/20/17	0.86	7.6	-31
03/01/18	1.04	7.7	-20
07/25/18	0.81	6.2	-63
02/25/19	2.91	6.6	-12
06/26/19	2.01	6.3	-29
10/11/19	1.16	6.3	22
02/25/20	2.18	8.1	164
06/11/20	1.48	6.6	72
09/18/20	0.39	6.7	186
03/24/21	4.49	6.82	230.8

	Monitoring Point Data Summary Table										
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-3				
INSTALLATION DATE:	01/25/10	WELL DEPTH (FT BTOC):	34.4	SCREEN LENGTH (FT):	29.4	CASING ELEV (FT ABOVE MSL):	676.61	WELL TYPE: DIAMETER (IN):	II 2		
Notes: BTOC (Below To	otes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)										

		GROUN	DWATER ANAL	YTICAL SUMMAF	RY (mg/L)		
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
01/26/10	2.100	2.870	2.630	2.350	5.820	13.670	-
01/27/10				NOT SAMPLED			
01/29/10				NOT SAMPLED			
10/19/10	19.4	6.08	8.21	2.01	5.87	22.17	-
07/11/11	2.06	1.27	1.11	0.97	2.29	5.64	-
11/27/12	0.914	0.751	0.363	0.872	1.38	3.37	-
03/13/13	1.04	0.835	0.220	0.912	0.790	2.757	-
06/04/13	0.531	0.668	0.654	1.54	1.43	4.29	-
09/19/13	8.51	2.76	0.481	1.89	2.64	7.77	-
04/03/14	0.538	0.572	0.155	0.761	0.823	2.311	0.205
07/15/14	4.05	1.44	0.419	2.54	1.82	6.22	0.533
10/15/14	0.903	0.642	0.22	1.04	1.33	3.23	0.251
01/28/15	0.719	0.718	0.208	1.65	2.31	4.89	0.335
07/19/16	0.702	0.412	0.158	0.586	0.771	1.927	0.240
08/08/16	1.58	0.407	0.163	1.83	1.25	3.65	0.248
02/01/17	0.187	0.233	0.053	0.434	0.278	0.998	0.086
03/23/17	0.139	0.073	0.013	0.312	0.099	0.497	0.091
11/20/17	0.302	0.220	0.026	0.679	0.592	1.517	0.354
03/01/18	0.064	0.090	<0.005	0.096	0.013	0.199	0.021
07/25/18	0.848	0.212	0.015	1.10	0.540	1.87	0.316
02/25/19	<0.001	<0.001	<0.001	<0.001	0.007	0.007	0.018
06/26/19	<0.001	<0.001	<0.001	0.009	0.022	0.031	0.027
10/11/19	0.023	0.038	0.009	0.154	0.188	0.389	0.035
02/25/20	<0.001	<0.001	<0.001	<0.001	< 0.003	BDL	<0.005
06/11/20	0.095	0.074	0.021	0.366	0.306	0.767	0.093
09/18/20	0.252	0.112	0.010	0.732	0.346	1.200	0.287
03/24/21	0.017	0.005	<0.002	0.003	0.002	0.010	<0.005
06/09/21				NOT SAMPLED			
09/07/21				NOT SAMPLED			
GRP SSTLs:	0.0239	0.00598	1.2	0.838	12	-	0.0239
Inhalation SSTLs:	16000	8.42	526	169	175	-	26.4

	Monitoring Point Data Summary Table										
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-4				
INSTALLATION DATE:	01/25/10	WELL DEPTH (FT BTOC):	44.8	SCREEN LENGTH (FT):	29.8	CASING ELEV (FT ABOVE MSL):	679.00	WELL TYPE: DIAMETER (IN):	II 2		
Notes: BTOC (Below To	otes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)										

	POTENTIOM	TRIC ELEVATIO	N SUMMARY	
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED
01/26/10	12.55	666.51	0.08	ī
01/27/10	11.79	667.22	0.01	ı
01/29/10	10.67	668.37	0.05	ī
10/19/10	30.77	648.23	=	-
07/11/11	25.11	653.89	ı	ī
11/27/12	29.22	649.78	•	ı
03/13/13	15.73	663.27	ı	ī
06/04/13	17.63	661.37	•	ı
09/19/13	23.89	655.11	ı	ī
04/03/14	15.49	663.51	•	ı
07/15/14	25.69	653.31	ı	ī
10/15/14	22.16	656.84	•	ı
01/28/15	17.11	661.89	-	=
07/19/16	19.06	659.94	=	=
08/08/16	18.57	660.43	-	=
02/01/17	19.03	659.97	=	=
03/23/17	19.95	659.05	-	=
11/20/17	20.34	658.66	=	=
03/01/18	10.14	668.86	-	-
07/25/18	21.68	657.32	=	=
02/25/19	9.47	669.53		ı
06/26/19	20.92	658.08	-	=
10/11/19	26.57	652.43		•
02/25/20	9.67	669.33	-	=
06/11/20	22.09	656.91	-	-
09/18/20	24.89	654.11	-	-
03/24/21	11.74	667.26	-	7.0
06/09/21	20.00	659.00	-	10.0
09/07/21	18.54	660.46	-	9.0

INTRIN	ISIC GROUNDW	ATER DATA SUN	/IMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pH	(mV)
01/26/10		EE PRODUCT (0.08 I	,
01/27/10		EE PRODUCT (0.01 I	,
01/29/10	FR	EE PRODUCT (0.05 I	FT)
10/19/10	-	-	-
07/11/11	0.49	5.7	-45
11/27/12	-	-	-
03/13/13	0.44	6.4	-45
06/04/13	0.31	6.7	168
09/19/13	2.83	6.0	-46
04/03/14	0.72	6.0	8
07/15/14	0.31	7.0	-40
10/15/14	1.26	6.5	-17
01/28/15	1.80	5.5	70
07/19/16	0.94	7.1	132
08/08/16	0.24	6.0	37
02/01/17	-	-	-
03/23/17	-	-	-
11/20/17	0.74	7.5	11
03/01/18	1.03	7.8	-13
07/25/18	0.77	6.3	-49
02/25/19	1.76	6.7	13
06/26/19	-	-	-
10/11/19	-	-	-
02/25/20	1.97	7.4	169
06/11/20	-	-	-
09/18/20	-	-	-
03/24/21	5.72	6.67	277.2
06/09/21	4.79	6.66	-55.6
09/07/21	1.32	6.51	211.0
	l .		l .

	Monitoring Point Data Summary Table										
SITE NAME:	А	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-4				
INSTALLATION DATE:	01/25/10	WELL DEPTH (FT BTOC):	44.8	SCREEN LENGTH (FT):	29.8	CASING ELEV (FT ABOVE MSL):	679.00	WELL TYPE: DIAMETER (IN):	II 2		
Notes: BTOC (Below To	p of Casing); MSL (N	lean Sea Level); BDL (Belov	v Detection Limit)	; CA (Corrective Action)							

		GROUN	DWATER ANALY	TICAL SUMMAR	RY (mg/L)		
SAMPLE DATE	МТВЕ	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
01/26/10	0.018	0.060	0.028	0.021	0.033	0.142	-
01/27/10				NOT SAMPLED			
01/29/10				NOT SAMPLED			
10/19/10	0.054	0.003	0.004	<0.001	0.003	0.010	-
07/11/11	0.022	0.001	0.002	<0.001	0.003	0.006	-
11/27/12	0.017	<0.001	<0.001	<0.001	< 0.001	BDL	-
03/13/13	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-
06/04/13	<0.001	<0.001	<0.001	<0.001	< 0.001	BDL	-
09/19/13	0.003	<0.001	0.003	<0.001	0.002	0.005	-
04/03/14	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
07/15/14	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
10/15/14	0.012	<0.001	<0.001	<0.001	< 0.001	BDL	<0.001
01/28/15	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
07/19/16	<0.001	<0.001	<0.001	<0.001	< 0.001	BDL	< 0.001
08/08/16	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	< 0.001
02/01/17		•	•	NOT SAMPLED	•		•
03/23/17				NOT SAMPLED			
11/20/17	<0.001	<0.001	<0.001	<0.001	< 0.001	BDL	<0.001
03/01/18	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	< 0.001
07/25/18	0.003	<0.001	<0.001	<0.001	<0.001	BDL	< 0.001
02/25/19	<0.001	<0.001	<0.001	<0.001	< 0.001	BDL	< 0.001
06/26/19				NOT SAMPLED			
10/11/19				NOT SAMPLED			
02/25/20	<0.001	<0.001	<0.001	<0.001	<0.003	BDL	<0.005
06/11/20				NOT SAMPLED			
09/18/20				NOT SAMPLED			
03/24/21	< 0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
06/09/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
09/07/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
GRP SSTLs:	0.0232	0.00579	1.16	0.811	11.6	-	0.0232
Inhalation SSTLs:	16000	8.42	526	169	175	-	26.4

	Monitoring Point Data Summary Table										
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:		MW-5			
INSTALLATION DATE:	01/25/10	WELL DEPTH (FT BTOC):	24.8	SCREEN LENGTH (FT):	21.8	CASING ELEV (FT ABOVE MSL):	679.41	WELL TYPE: DIAMETER (IN):	II 2		
Notes: BTOC (Below To	otes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)										

	POTENTIOMETRIC ELEVATION SUMMARY							
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS				
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED				
01/26/10	13.01	666.40	THICKINESS (FT)	KEIVIOVED				
01/26/10			-	-				
01/27/10	12.93 13.35	666.48 666.06	-	-				
	13.35		RY	-				
10/19/10			RY					
07/11/11								
11/27/12	21.10		RY I					
03/13/13	21.19	658.22	-	-				
06/04/13			RY					
09/19/13	40.04		RY I					
04/03/14	18.94	660.47	-	-				
07/15/14	22.52		RY					
10/15/14	23.63	655.78	-	-				
01/28/15	22.08	657.33	=	-				
07/19/16	24.03	655.38	-	-				
08/08/16	24.13	655.28	-	-				
02/01/17	22.33	657.08	-	-				
03/23/17	22.67	656.74	-	-				
11/20/17	23.65	655.76	-	-				
03/01/18	12.35	667.06	-	-				
07/25/18			RY	T				
02/25/19	10.78	668.63	-	-				
06/26/19			RY	T				
10/11/19	23.55	655.86	-	-				
02/25/20	11.02	668.39	-	-				
06/11/20	23.58	655.83	-	-				
09/18/20	23.62	655.79	-	-				
03/24/21	16.75	662.66	-	3.0				

	DISSOLVED		
			REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pН	(mV)
01/26/10	2.20	6.7	65
01/27/10	-	=	-
01/29/10	-	-	-
10/19/10		DRY	
07/11/11		DRY	
11/27/12		DRY	
03/13/13	3.75	6.0	-6
06/04/13		DRY	
09/19/13		DRY	
04/03/14	2.17	6.0	24
07/15/14		DRY	
10/15/14		DRY	
01/28/15	4.60	6.0	100
07/19/16		DRY	
08/08/16	-	-	-
02/01/17	-	-	-
03/23/17	-	=	-
11/20/17		DRY	
03/01/18	5.65	7.7	-5
07/25/18		DRY	
02/25/19	3.41	6.2	124
06/26/19		DRY	
10/11/19		DRY	
02/25/20	2.28	7.5	166
06/11/20	-	-	-
09/18/20	-	-	-
03/24/21	8.16	8.18	223.3

Monitoring Point Data Summary Table										
SITE NAME:	P	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:		MW-5		
INSTALLATION DATE:	INSTALLATION 01/25/10 WELL DEPTH 24.8 SCREEN 21.8 CASING ELEV 679.41 WELL TYPE: II DIAMETER (IN): 2									
Notes: BTOC (Below T	op of Casing); MSL (N	lean Sea Level); BDL (Belo	Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)							

		GROUN	DWATER ANALY	TICAL SUMMAR	Y (mg/L)					
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE			
01/26/10	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-			
01/27/10	NOT SAMPLED									
01/29/10				NOT SAMPLED						
10/19/10				NOT SAMPLED (DRY	)					
07/11/11				NOT SAMPLED (DRY	)					
11/27/12				NOT SAMPLED (DRY	)					
03/13/13	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-			
06/04/13				NOT SAMPLED (DRY	)					
09/19/13				NOT SAMPLED (DRY	)					
04/03/14	<0.001	<0.001	< 0.001	<0.001	<0.001	BDL	<0.001			
07/15/14				NOT SAMPLED (DRY	)					
10/15/14				NOT SAMPLED (DRY	)					
01/28/15	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
07/19/16	NOT SAMPLED									
08/08/16	NOT SAMPLED									
02/01/17	NOT SAMPLED									
03/23/17				NOT SAMPLED						
11/20/17				NOT SAMPLED (DRY	)					
03/01/18	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
07/25/18				NOT SAMPLED (DRY	)					
02/25/19	<0.001	<0.001	< 0.001	<0.001	< 0.001	BDL	<0.001			
06/26/19		•	•	NOT SAMPLED (DRY	)		•			
10/11/19				NOT SAMPLED (DRY	)					
02/25/20	<0.001	<0.001	<0.001	<0.001	<0.003	BDL	<0.005			
06/11/20				NOT SAMPLED						
09/18/20				NOT SAMPLED						
03/24/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005			
06/09/21		• -	• -	NOT SAMPLED	· — — — — — — — — — — — — — — — — — — —		· <u> </u>			
09/07/21				NOT SAMPLED						
GRP SSTLs:	0.0154	0.00385	0.77	0.539	7.7	-	0.0154			
Inhalation SSTLs:	16000	8.42	526	169	175	-	26.4			

Monitoring Point Data Summary Table									
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:		MW-6	
INSTALLATION DATE:	INSTALLATION 10/14/10 WELL DEPTH 41.1 SCREEN 15.0 CASING ELEV 677.05 DIAMETER (IN): 2								
Notes: BTOC (Below To	op of Casing); MSL (M	lean Sea Level); BDL (Belov	v 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				
10/19/10	(ITBIOC)	,	RY	KLIVIOVED				
07/11/11	25.76	651.29	XI					
11/27/12	30.37	646.68	-	-				
03/13/13	14.18	662.87	-	-				
06/04/13	23.84	653.21	-	-				
09/19/13	29.56	647.49	<u>-</u>	-				
04/03/14	14.30	662.75	-	-				
07/15/14	30.05	647.00		-				
10/15/14	18.63	658.42	-	-				
01/28/15	20.36	656.69	-	-				
07/19/16	24.98	652.07	-	-				
08/08/16	25.21	651.84						
02/01/17	13.13	663.92	-	-				
03/23/17	22.94	654.11	-	-				
	26.69	650.36	-	-				
11/20/17	9.76			-				
03/01/18	9.76 27.42	667.29	-	-				
07/25/18		649.63	-	-				
02/25/19	7.26	669.79	-	-				
06/26/19	25.64	651.41	=	-				
10/11/19	28.63	648.42	-	-				
02/25/20	7.81	669.24	-	-				
06/11/20	24.19	652.86	-	=				
09/18/20	27.28	649.77	-	-				
03/24/21	12.75	664.30	-	8.0				
06/09/21	20.44	656.61	-	10.0				
09/07/21	17.35	659.70	-	9.0				

INTRIN	ISIC GROUNDW	ATER DATA SUN	ИMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pН	(mV)
10/19/10		DRY	т
07/11/11	0.42	5.8	244
11/27/12	-	6.2	-24
03/13/13	0.73	6.0	-18
06/04/13	0.07	6.3	-50
09/19/13	2.85	6.1	-64
04/03/14	0.87	5.9	-21
07/15/14	0.12	6.6	-20
10/15/14	1.19	6.0	33
01/28/15	1.78	5.7	12
07/19/16	0.39	6.5	174
08/08/16	0.21	6.8	37
02/01/17	0.56	8.5	-136
03/23/17	1.55	7.9	-14
11/20/17	1.21	6.7	43
03/01/18	1.22	7.8	-102
07/25/18	0.79	6.0	-31
02/25/19	1.22	6.7	-36
06/26/19	2.31	6.4	-27
10/11/19	0.77	6.1	-36
02/25/20	2.09	6.9	23
06/11/20	2.07	6.5	89
09/18/20	0.27	6.7	76
03/24/21	2.52	9.05	-71.3
06/09/21	3.11	6.17	-74.1
09/07/21	0.98	6.10	47.7

Monitoring Point Data Summary Table									
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:		MW-6	
INSTALLATION DATE:	1 10/14/10 1 41.1 1 15.0 1 677.05 1 1 1								
Notes: BTOC (Below To	op of Casing); MSL (N	lean Sea Level); BDL (Belov	w Detection Limit)	; CA (Corrective Action)					

		GROUN	DWATER ANAL	YTICAL SUMMAR	RY (mg/L)		
SAMPLE DATE	МТВЕ	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
10/19/10				NOT SAMPLED (DRY	)		
07/11/11	4.58	5.35	9.55	2.31	12.0	29.2	-
11/27/12	1.99	3.96	0.442	1.07	2.51	7.98	-
03/13/13	2.38	4.65	9.09	2.20	6.76	22.70	-
06/04/13	1.27	2.91	0.401	1.91	4.09	9.31	-
09/19/13	2.96	2.62	0.119	1.11	2.23	6.08	-
04/03/14	0.922	1.98	2.36	1.46	4.22	10.02	0.286
07/15/14	6.2	3.09	0.439	1.45	3.47	8.45	0.442
10/15/14	2.15	1.26	5.92	2.37	9.3	18.9	0.692
01/28/15	2.09	2.51	4.10	2.66	8.07	17.34	0.486
07/19/16	1.03	1.06	3.51	1.77	10.60	16.94	0.825
08/08/16	1.16	1.42	3.04	1.95	12.5	18.9	0.952
02/01/17	0.377	0.07	2.46	1.28	4.5	8.3	0.333
03/23/17	2.92	1.73	4.07	2.81	6.06	14.67	0.884
11/20/17	1.5	1.36	1.40	1.75	3.6	8.1	0.857
03/01/18	<0.1	0.517	1.13	1.14	4.08	6.87	<0.1
07/25/18	1.76	1.78	5.49	2.94	9.91	20.12	0.636
02/25/19	0.159	0.537	1.95	1.21	3.70	7.40	0.961
06/26/19	0.212	1.24	2.06	2.37	8.27	13.94	0.788
10/11/19	1.94	2.15	2.11	3.87	5.61	13.74	0.782
02/25/20	0.059	0.271	1.16	0.781	1.93	4.14	0.207
06/11/20	0.567	0.891	2.050	1.790	4.200	8.9	0.734
09/18/20	2.320	1.210	0.964	2.280	4.180	8.6	1.130
03/24/21	0.107	0.228	0.245	0.648	1.19	2.31	0.218
06/09/21	0.196	0.630	1.46	1.12	3.13	6.34	0.248
09/07/21	0.017	0.042	0.053	0.218	0.249	0.562	0.057
GRP SSTLs:	0.0239	0.00598	1.2	0.838	12	-	0.0239
Inhalation SSTLs:	16000	8.42	526	169	175	-	26.4

Monitoring Point Data Summary Table									
SITE NAME:	А	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:		MW-7	
INSTALLATION DATE:	INSTALLATION DATE: WELL DEPTH 35.4 SCREEN 15.0 CASING ELEV 677.72 WELL TYPE: II LENGTH (FT): (FT ABOVE MSL): DIAMETER (IN): 2								
Notes: BTOC (Below To	p of Casing); MSL (M	lean Sea Level); BDL (Belov	v 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				
10/19/10	(FI BIOC)	,	RY	KEIVIOVED				
07/11/11	25.22	652.50	NI					
11/27/12	23.22		<u>-</u> RY					
03/13/13	14.87	662.85	-	-				
06/04/13	24.93	652.79	-					
09/19/13	24.55		I RY					
04/03/14	14.78	662.94	-	_				
07/15/14	14.70		L RY					
10/15/14	20.24	657.48	_	_				
01/28/15	21.50	656.22	_	_				
07/19/16	23.77	653.95	-	-				
08/08/16	22.90	654.82	-	-				
02/01/17	12.94	664.78	-	_				
03/23/17	22.49	655.23	-	_				
11/20/17	25.14	652.58	-	-				
03/01/18	10.36	667.36	-	_				
07/25/18	24.98	652.74	-	-				
02/25/19	8.03	669.69	-	-				
06/26/19	22.95	654.77	-	-				
10/11/19	27.08	650.64	=	-				
02/25/20	8.79	668.93	-	-				
06/11/20	22.71	655.01	=	-				
09/18/20	26.58	651.14	-	-				
03/24/21	12.33	665.39	-	9.0				
06/09/21	17.91	659.81	-	7.5				
09/07/21	16.85	660.87	-	6.0				
		_						

INTRIN	ISIC GROUNDW	ATER DATA SUN	ИMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pН	(mV)
10/19/10		DRY	T
07/11/11	0.41	5.0	-22
11/27/12		DRY	
03/13/13	0.77	6.0	-36
06/04/13	0.22	5.9	-2
09/19/13		DRY	
04/03/14	0.91	5.9	-29
07/15/14		DRY	
10/15/14	0.66	5.7	63
01/28/15	1.45	5.6	33
07/19/16	0.40	6.5	220
08/08/16	0.28	6.9	81
02/01/17	1.98	6.7	93
03/23/17	0.29	7.8	162
11/20/17	0.42	6.9	57
03/01/18	1.21	7.1	37
07/25/18	0.78	6.0	-35
02/25/19	1.68	5.9	48
06/26/19	2.57	6.3	-27
10/11/19	0.98	5.2	235
02/25/20	1.73	7.4	67
06/11/20	1.22	6.3	90
09/18/20	0.06	7.6	77
03/24/21	7.06	7.86	17.7
06/09/21	1.01	6.45	77.3
09/07/21	1.13	5.72	142.6

	Monitoring Point Data Summary Table									
SITE NAME:	P	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:		MW-7		
INSTALLATION DATE:	10/12/10	WELL DEPTH 35.4 (FT BTOC):			15.0	CASING ELEV (FT ABOVE MSL):	677.72	WELL TYPE: DIAMETER (IN):	II 2	
Notes: BTOC (Below T	op of Casing); MSL (N	lean Sea Level); BDL (Belov	v Detection Limit)	; CA (Corrective Action)						

		GROUN	DWATER ANAL	YTICAL SUMMAR	Y (mg/L)		
SAMPLE DATE	МТВЕ	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
10/19/10				NOT SAMPLED (DRY	)		
07/11/11	0.136	0.394	2.22	0.784	4.0	7.4	-
11/27/12				NOT SAMPLED (DRY	)		
03/13/13	<0.1	0.638	3.60	0.979	3.01	8.23	-
06/04/13	0.098	0.866	2.6	1.81	3.66	8.94	-
09/19/13		•	•	NOT SAMPLED (DRY	)		•
04/03/14	0.054	0.410	1.61	0.714	2.39	5.12	0.157
07/15/14		•	•	NOT SAMPLED (DRY	)		•
10/15/14	0.071	0.542	3.59	1.15	4.92	10.20	0.442
01/28/15	0.243	1.00	6.59	1.95	6.82	16.36	0.286
07/19/16	0.131	1.04	10.5	2.06	14.00	27.60	0.667
08/08/16	<0.25	1.64	11.9	3.19	19.6	36.3	1.76
02/01/17	0.266	0.275	1.49	0.311	3.14	5.22	0.412
03/23/17	<.025	0.128	0.553	0.336	2.14	3.16	0.213
11/20/17	<0.25	0.327	0.804	1.36	2.92	5.41	0.733
03/01/18	<0.1	0.233	<0.1	0.216	1.25	1.70	0.350
07/25/18	0.119	0.159	1.07	1.29	2.38	4.90	0.408
02/25/19	<0.025	0.044	0.038	0.188	0.188	0.458	0.105
06/26/19	<0.01	0.032	0.023	0.095	0.128	0.278	0.126
10/11/19	<0.01	0.043	0.049	0.226	0.403	0.721	0.172
02/25/20	0.009	0.004	0.003	0.175	0.086	0.268	0.056
06/11/20	0.030	0.006	0.023	0.297	0.305	0.631	0.120
09/18/20	0.051	0.010	0.142	0.685	0.947	1.784	0.210
03/24/21	0.007	0.004	0.014	0.038	0.129	0.185	0.038
06/09/21	0.015	0.001	0.003	0.064	0.053	0.121	0.017
09/07/21	0.001	<0.001	<0.002	0.009	0.032	0.041	0.008
GRP SSTLs:	0.023	0.00575	1.15	0.805	11.5		0.023
Inhalation SSTLs:	16000	8.42	526	169	175		26.4

	Monitoring Point Data Summary Table									
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-8			
INSTALLATION DATE:	10/13/10	WELL DEPTH (FT BTOC):	35.6	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT ABOVE MSL):	678.47	WELL TYPE: DIAMETER (IN):	II 2	
Notes: BTOC (Below To	op of Casing); MSL (M	lean Sea Level); BDL (Belov	v Detection Limit)	; CA (Corrective Action)						

	POTENTIOMI	ETRIC ELEVATIO	N SUMMARY	
MEASUREMENT DATE	DEPTH TO WATER (FT BTOC)	ELEVATION (FT ABOVE MSL)	FREE PRODUCT THICKNESS (FT)	PCW GALLONS REMOVED
10/19/10	(ITBIOC)	,	RY	KLIVIOVED
07/11/11	22.50	655.97	_	
11/27/12	22.34	656.13	-	-
03/13/13	16.18	662.29	-	-
06/04/13	19.98	658.49	-	-
09/19/13	20.46	658.01	-	-
04/03/14	13.74	664.73	_	_
07/15/14	20.68	657.79	-	_
10/15/14	22.09	656.38	_	_
01/28/15	18.52	659.95	-	-
07/19/16	19.19	659.28	-	-
08/08/16	21.88	656.59	-	-
02/01/17	15.00	663.47	-	=
03/23/17	19.79	658.68	-	=
11/20/17	19.98	658.49	-	-
03/01/18	11.20	667.27	-	-
07/25/18	19.32	659.15	-	-
02/25/19	10.77	667.70	-	-
06/26/19	17.09	661.38	=	=
10/11/19	21.03	657.44	-	-
02/25/20	7.79	670.68	-	=
06/11/20	19.23	659.24	=	=
09/18/20	20.71	657.76	-	•
03/24/21	12.25	666.22	ı	7.0
06/09/21	14.11	664.36	1	6.0
09/07/21	16.92	661.55	-	7.0

INTRIN	ISIC GROUNDW	ATER DATA SUN	ИMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pН	(mV)
10/19/10		DRY	ı
07/11/11	3.00	3.9	124
11/27/12	2.50	5.4	147
03/13/13	5.75	4.9	93
06/04/13	2.32	5.8	51
09/19/13		DRY	
04/03/14	4.90	5.3	69
07/15/14	5.79	5.4	193
10/15/14	0.93	5.4	203
01/28/15	1.01	5.0	133
07/19/16	1.48	5.7	254
08/08/16	2.03	6.9	116
02/01/17	-	-	-
03/23/17	-	-	-
11/20/17	0.53	5.9	191
03/01/18	4.40	6.2	277
07/25/18	1.79	5.0	77
02/25/19	4.73	5.0	236
06/26/19	-	-	-
10/11/19	-	-	-
02/25/20	1.71	6.9	22
06/11/20	-	-	-
09/18/20	-	-	-
03/24/21	5.06	6.63	161.8
06/09/21	1.88	6.09	-22.3
09/07/21	1.35	5.73	182.1

	Monitoring Point Data Summary Table										
SITE NAME:	Į.	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-8				
INSTALLATION DATE:	10/13/10	WELL DEPTH (FT BTOC):	35.6	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT ABOVE MSL):	678.47	WELL TYPE: DIAMETER (IN):	II 2		
Notes: BTOC (Below T	op of Casing); MSL (N	lean Sea Level); BDL (Beld	ow Detection Limit)	; CA (Corrective Action)							

		GROUN	DWATER ANAL	YTICAL SUMMAR	Y (mg/L)		
SAMPLE DATE	МТВЕ	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
10/19/10		•		NOT SAMPLED (DRY	)		
07/11/11	0.022	<0.001	<0.001	<0.001	<0.001	BDL	-
11/27/12	0.023	<0.001	< 0.001	<0.001	< 0.001	BDL	-
03/13/13	0.017	<0.001	<0.001	<0.001	<0.001	BDL	-
06/04/13	0.006	<0.001	<0.001	<0.001	<0.001	BDL	-
09/19/13	0.014	<0.001	< 0.001	<0.001	< 0.001	BDL	-
04/03/14	0.006	<0.001	<0.001	<0.001	< 0.001	BDL	<0.001
07/15/14	0.012	<0.001	<0.001	<0.001	< 0.001	BDL	< 0.001
10/15/14	0.012	<0.001	<0.001	<0.001	<0.001	BDL	< 0.001
01/28/15	0.015	<0.001	<0.001	<0.001	< 0.001	BDL	< 0.001
07/19/16	0.011	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
08/08/16	<0.001	<0.001				BDL	< 0.001
02/01/17		•		NOT SAMPLED			•
03/23/17				NOT SAMPLED			
11/20/17	0.007	<0.001	<0.001	<0.001	<0.001	BDL	< 0.001
03/01/18	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
07/25/18	0.011	<0.001	<0.001	<0.001	<0.001	BDL	< 0.001
02/25/19	0.010	<0.001	<0.001	<0.001	< 0.001	BDL	< 0.001
06/26/19		•		NOT SAMPLED			•
10/11/19				NOT SAMPLED			
02/25/20	0.008	<0.001	<0.001	<0.001	< 0.003	BDL	<0.005
06/11/20				NOT SAMPLED			
09/18/20				NOT SAMPLED			
03/24/21	0.013	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
06/09/21	0.010	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
09/07/21	0.006	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
CDD CCTI o	0.0214	0.00536	1.07	0.75	10.7		0.0214
GRP SSTLs:			1.07		_	-	
Inhalation SSTLs:	16000	8.42	526	169	175	-	26.4

	Monitoring Point Data Summary Table									
SITE NAME:	А	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-9			
INSTALLATION DATE:	10/14/10	10/14/10 WELL DEPTH 35.3 (FT BTOC):			15.0	CASING ELEV (FT ABOVE MSL):	679.25	WELL TYPE: DIAMETER (IN):	II 2	
Notes: BTOC (Below To	op of Casing); MSL (N	lean Sea Level); BDL (Belov	v Detection Limit)	; CA (Corrective Action)						

	POTENTIOM	TRIC ELEVATIO	N SUMMARY	
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED
10/19/10	30.98	648.27	-	-
07/11/11	25.78	653.47	-	-
11/27/12	29.05	650.20	-	-
03/13/13	16.89	662.36	-	-
06/04/13	24.32	654.93	-	-
09/19/13			RY	1
04/03/14	16.09	663.16	-	-
07/15/14	27.00	652.25	=	-
10/15/14	22.26	656.99	=	-
01/28/15	21.96	657.29	-	-
07/19/16	25.40	653.85	-	-
08/08/16	25.69	653.56	-	-
02/01/17	24.50	654.75	-	-
03/23/17	25.14	654.11	-	-
11/20/17	25.37	653.88	-	-
03/01/18	8.96	670.29	=	-
07/25/18	25.31	653.94	=	-
02/25/19	7.17	672.08	=	-
06/26/19	25.74	653.51	=	-
10/11/19	27.95	651.30	=	-
02/25/20	7.78	671.47	=	-
06/11/20	25.45	653.80	-	-
09/18/20	27.23	652.02	-	-
03/24/21	12.28	666.97	-	7.5

INTRIN	ISIC GROUNDW	ATER DATA SUN	ИMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pH	(mV)
10/19/10	1.38	7.1	-79
07/11/11	0.77	6.3	125
11/27/12	-	6.0	61
03/13/13	5.90	6.1	24
06/04/13	0.52	6.6	178
09/19/13		DRY	
04/03/14	4.73	7.0	-8
07/15/14	2.26	6.8	112
10/15/14	1.60	6.1	181
01/28/15	6.01	6.0	81
07/19/16	1.07	6.7	137
08/08/16	3.19	6.2	203
02/01/17	-	-	-
03/23/17	-	-	-
11/20/17	0.36	7.4	36
03/01/18	4.36	7.4	38
07/25/18	1.85	5.7	49
02/25/19	1.41	6.3	112
06/26/19	-	-	-
10/11/19	-	-	-
02/25/20	2.60	7.3	168
06/11/20	-	-	-
09/18/20	-	-	-
03/24/21	6.86	7.46	239.2
	,		

	Monitoring Point Data Summary Table									
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-9			
INSTALLATION DATE:	10/14/10	WELL DEPTH (FT BTOC):	35.3	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT ABOVE MSL):	679.25	WELL TYPE: DIAMETER (IN):	II 2	
Notes: BTOC (Below To	op of Casing); MSL (M	lean Sea Level); BDL (Belov	w Detection Limit)	; CA (Corrective Action)						

		GROUN	DWATER ANAL	YTICAL SUMMAR	Y (mg/L)						
SAMPLE DATE	МТВЕ	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE				
10/19/10	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-				
07/11/11	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-				
11/27/12	<0.001	<0.001	<0.001	<0.001	< 0.001	BDL	-				
03/13/13	<0.001	<0.001	<0.001	<0.001	< 0.001	BDL	-				
06/04/13	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	-				
09/19/13		NOT SAMPLED (DRY)									
04/03/14	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001				
07/15/14	<0.001	<0.001	<0.001	<0.001	< 0.001	BDL	< 0.001				
10/15/14	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	< 0.001				
01/28/15	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001				
07/19/16	<0.001	<0.001	<0.001	<0.001	< 0.001	BDL	< 0.001				
08/08/16	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001				
02/01/17				NOT SAMPLED			•				
03/23/17				NOT SAMPLED							
11/20/17	<0.001	<0.001	<0.001	<0.001	< 0.001	BDL	<0.001				
03/01/18	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001				
07/25/18	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	< 0.001				
02/25/19	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001				
06/26/19				NOT SAMPLED							
10/11/19				NOT SAMPLED							
02/25/20	<0.001	<0.001	<0.001	<0.001	< 0.003	BDL	<0.005				
06/11/20				NOT SAMPLED							
09/18/20				NOT SAMPLED							
03/24/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005				
06/09/21				NOT SAMPLED			•				
09/07/21				NOT SAMPLED							
GRP SSTLs:	0.00419	0.00105	0.209	0.147	2.09	-	0.00419				
Inhalation SSTLs:	16000	8.42	526	169	175	-	26.4				

Monitoring Point Data Summary Table									
SITE NAME:	A & M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-10			
INSTALLATION DATE:	10/14/10	WELL DEPTH (FT BTOC):	29.5	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT ABOVE MSL):	679.04	WELL TYPE: DIAMETER (IN):	II 2
Notes: BTOC (Below To	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					
10/19/10	(112100)	, ,	DRY						
07/11/11	DRY								
11/27/12	DRY								
03/13/13	25.07								
06/04/13	25.07		RY	-					
09/19/13		DI	RY						
04/03/14	22.73	656.31	-	-					
07/15/14		DI	RY						
10/15/14	29.10	649.94	=	-					
01/28/15		DI	RY						
07/19/16	29.03	650.01	-	-					
08/08/16	29.02	650.02	-	-					
02/01/17		DI	RY						
03/23/17	29.12	649.92	-	-					
11/20/17	29.25	649.79	-	-					
03/01/18	11.71	667.33	-	-					
07/25/18		DI	RY						
02/25/19	9.25	669.79	=	=					
06/26/19		DI	RY						
10/11/19	25.20	653.84	=	ī					
02/25/20	9.59	669.45	-	1					
06/11/20	29.03	650.01	=	ī					
09/18/20	29.34	649.70	-	-					
03/24/21	19.19	659.85	-	4.5					
06/09/21	DRY								
09/07/21	DRY								

INTRIN	INTRINSIC GROUNDWATER DATA SUMMARY								
	DISSOLVED		REDOX POTENTIAL						
SAMPLE DATE	OXYGEN (mg/L)	pН	(mV)						
10/19/10		DRY							
07/11/11		DRY							
11/27/12		DRY	T						
03/13/13	6.37	6.3	0						
06/04/13		DRY							
09/19/13		DRY							
04/03/14	7.23	6.7	-33						
07/15/14		DRY							
10/15/14		DRY							
01/28/15		DRY							
07/19/16		DRY							
08/08/16	-	-	-						
02/01/17	-	-	-						
03/23/17	-	-	-						
11/20/17		DRY							
03/01/18	7.13	8.0	180						
07/25/18		DRY							
02/25/19	4.95	6.7	104						
06/26/19		DRY							
10/11/19		DRY							
02/25/20	2.76	7.2	173						
06/11/20	-	-	-						
09/18/20	-	-	-						
03/24/21	7.55	7.20	242.8						
06/09/21		DRY							
09/07/21		DRY							

Monitoring Point Data Summary Table									
SITE NAME:	A & M Quick Mart			UST NUMBER:	10-11-03	WELL ID:	MW-10		
INSTALLATION DATE:	10/14/10	WELL DEPTH (FT BTOC):	29.5	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT ABOVE MSL):	679.04	WELL TYPE: DIAMETER (IN):	II 2
Notes: BTOC (Below To	Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)								

		GROUNI	DWATER ANAL	YTICAL SUMMAR	Y (mg/L)					
SAMPLE DATE	МТВЕ	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE			
10/19/10	NOT SAMPLED (DRY)									
07/11/11	NOT SAMPLED (DRY)									
11/27/12	NOT SAMPLED (DRY)									
03/13/13	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
06/04/13	NOT SAMPLED (DRY)									
09/19/13				NOT SAMPLED (DRY	)					
04/03/14	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
07/15/14		•	•	NOT SAMPLED (DRY	)		•			
10/15/14				NOT SAMPLED (DRY	)					
01/28/15				NOT SAMPLED (DRY	)					
07/19/16				NOT SAMPLED						
08/08/16				NOT SAMPLED						
02/01/17	NOT SAMPLED									
03/23/17	NOT SAMPLED									
11/20/17				NOT SAMPLED (DRY	)					
03/01/18	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
07/25/18				NOT SAMPLED (DRY	)					
02/25/19	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
06/26/19				NOT SAMPLED (DRY	)					
10/11/19				NOT SAMPLED (DRY	)					
02/25/20	<0.001	<0.001	<0.001	<0.001	<0.003	BDL	<0.005			
06/11/20				NOT SAMPLED	•					
09/18/20				NOT SAMPLED						
03/24/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005			
06/09/21	NOT SAMPLED (DRY)									
09/07/21	NOT SAMPLED (DRY)									
	·									
				1						
GRP SSTLs:	0.00342	0.000856	0.171	0.12	1.71	-	0.00342			
Inhalation SSTLs:	16000	8.42	526	169	175	-	26.4			

	Monitoring Point Data Summary Table									
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-11			
INSTALLATION DATE: 10/14/10 WELL DEPTH 34.2 SCREEN 15.0 CASING ELEV 678.83 WELL TYPE: II DIAMETER (IN): 2										
Notes: BTOC (Below To	Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

	POTENTIOM	TRIC ELEVATIO	N SUMMARY	
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED
10/19/10		DI	RY	
07/11/11	28.02	650.81	•	-
11/27/12	30.15	648.68	=	-
03/13/13	20.26	658.57	•	-
06/04/13	23.25	655.58	ı	ı
09/19/13	27.64	651.19	•	-
04/03/14	17.95	660.88	=	-
07/15/14	29.27	649.56	-	-
10/15/14	14.77	664.06	-	-
01/28/15	20.26	658.57	-	-
07/19/16	23.74	655.09	-	-
08/08/16	25.08	653.75	•	-
02/01/17	20.74	658.09	ı	ı
03/23/17	21.97	656.86	•	-
11/20/17	23.24	655.59	ı	ı
03/01/18	11.77	667.06	=	=
07/25/18	25.99	652.84	-	-
02/25/19	9.39	669.44	=	=
06/26/19	23.18	655.65	-	-
10/11/19	25.01	653.82	=	=
02/25/20	10.46	668.37	-	-
06/11/20	25.19	653.64	=	-
09/18/20	29.17	649.66	-	-
03/24/21	14.32	664.51	=	8.0
			-	
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			-	

INTRIN	ISIC GROUNDW	ATER DATA SUN	ИMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pН	(mV)
10/19/10		DRY	ı
07/11/11	1.69	6.1	113
11/27/12	-	6.2	-16
03/13/13	5.30	6.6	-46
06/04/13	1.31	6.9	169
09/19/13	14.59	6.0	-46
04/03/14	7.40	6.5	31
07/15/14	4. 34	7.2	21
10/15/14	1.59	7.0	14
01/28/15	7.15	6.0	92
07/19/16	2.23	8.0	132
08/08/16	5. 76	6.7	-3
02/01/17	-	-	-
03/23/17	-	-	-
11/20/17	1.03	7.7	-18
03/01/18	5.65	7.7	168
07/25/18	4.03	6.4	-2
02/25/19	5.76	7.0	46
06/26/19	-	ı	-
10/11/19	-	-	-
02/25/20	2.78	7.4	161
06/11/20	-	-	-
09/18/20	-	ı	-
03/24/21	7.48	6.75	277.9

Monitoring Point Data Summary Table										
SITE NA	NAME: A & M Quick Mart UST NUMBER: 10-11-03 WELL ID: MW-11									
INSTALLA D	TION ATE:	10/14/10	WELL DEPTH (FT BTOC):	34.2	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT ABOVE MSL):	678.83	WELL TYPE: DIAMETER (IN):	II 2
Notes: BTOC (Be	Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

		GROUN	DWATER ANAL	YTICAL SUMMAR	RY (mg/L)					
SAMPLE DATE	МТВЕ	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE			
10/19/10		•	•	NOT SAMPLED (DRY	)					
07/11/11	<0.001	<0.001	< 0.001	<0.001	<0.001	BDL	-			
11/27/12	<0.001	<0.001	< 0.001	<0.001	< 0.001	BDL	-			
03/13/13	<0.001	<0.001	< 0.001	<0.001	< 0.001	BDL	-			
06/04/13	<0.001	<0.001	< 0.001	<0.001	< 0.001	BDL	-			
09/19/13	<0.001	<0.001	< 0.001	<0.001	< 0.001	BDL	-			
04/03/14	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
07/15/14	<0.001	<0.001	< 0.001	<0.001	< 0.001	BDL	<0.001			
10/15/14	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
01/28/15	<0.001	<0.001	< 0.001	<0.001	< 0.001	BDL	<0.001			
07/19/16	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
08/08/16	<0.001	<0.001	<0.001	0.004	<0.001	0.004	<0.001			
02/01/17		NOT SAMPLED								
03/23/17				NOT SAMPLED						
11/20/17	<0.001	<0.001	< 0.001	<0.001	<0.001	BDL	<0.001			
03/01/18	<0.001	<0.001	< 0.001	<0.001	< 0.001	BDL	<0.001			
07/25/18	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
02/25/19	<0.001	<0.001	< 0.001	<0.001	<0.001	BDL	<0.001			
06/26/19				NOT SAMPLED						
10/11/19				NOT SAMPLED						
02/25/20	<0.001	<0.001	< 0.001	<0.001	< 0.003	BDL	<0.005			
06/11/20				NOT SAMPLED						
09/18/20				NOT SAMPLED						
03/24/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005			
06/09/21				NOT SAMPLED						
09/07/21				NOT SAMPLED						
GRP SSTLs:	0.0172	0.0043	0.86	0.602	8.6		0.0172			
	16000	8.42	526	169	175	-	26.4			
Inhalation SSTLs:	10000	0.42	320	103	1/5	•	20.4			

	Monitoring Point Data Summary Table									
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-12			
INSTALLATION DATE: WELL DEPTH 48.4 SCREEN 3.0 CASING ELEV 676.92 WELL TYPE: III LENGTH (FT): (FT ABOVE MSL): DIAMETER (IN): 2										
Notes: BTOC (Below To	Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

	POTENTIOM	TRIC ELEVATIO	N SUMMARY	
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED
10/19/10	33.55	643.37	ı	=
07/11/11	24.61	652.31	=	=
11/27/12	31.66	645.26	ı	=
03/13/13	14.79	662.13	-	=
06/04/13	24.75	652.17	ı	=
09/19/13	30.19	646.73	-	-
04/03/14	15.04	661.88	-	-
07/15/14	31.44	645.48	-	-
10/15/14	22.14	654.78	-	-
01/28/15	22.11	654.81	-	-
07/19/16	25.62	651.30	-	-
08/08/16	26.10	650.82	-	-
02/01/17	19.24	657.68	-	-
03/23/17	25.91	651.01	-	-
11/20/17	27.19	649.73	-	-
03/01/18	10.62	666.30	ı	=
07/25/18	28.16	648.76	1	-
02/25/19	7.57	669.35	ı	=
06/26/19	27.60	649.32	-	-
10/11/19	32.25	644.67	-	-
02/25/20	8.28	668.64	-	-
06/11/20	26.20	650.72	-	-
09/18/20	31.70	645.22	-	-
03/24/21	14.13	662.79	-	12.0
06/09/21	25.99	650.93	-	9.5
09/07/21	22.18	654.74	-	9.0

DISSOLVED   DATE   OXYGEN (mg/L)   DH   (mV)	INTRIN	ISIC GROUNDW	ATER DATA SUN	/IMARY
10/19/10         4.78         11.0         -105           07/11/11         7.08         8.2         -165           11/27/12         -         8.3         -185           03/13/13         0.82         6.7         21           06/04/13         0.15         6.9         -82           09/19/13         3.68         7.1         -62           04/03/14         0.66         6.6         -65           07/15/14         0.92         7.6         -91           10/15/14         .59+         7.1         154           01/28/15         0.68         5.8         -36           07/19/16         0.28         9.4         41           08/08/16         6.81         9.5         -76           02/01/17         0.34         7.1         -60           03/23/17         0.88         7.9         -34           11/20/17         0.93         7.0         -4           03/01/18         1.08         7.9         -40           07/25/18         0.81         6.2         -43           02/25/19         1.17         6.5         -64           06/26/19         2.12         6.2				REDOX POTENTIAL
07/11/11         7.08         8.2         -165           11/27/12         -         8.3         -185           03/13/13         0.82         6.7         21           06/04/13         0.15         6.9         -82           09/19/13         3.68         7.1         -62           04/03/14         0.66         6.6         -65           07/15/14         0.92         7.6         -91           10/15/14         .59+         7.1         154           01/28/15         0.68         5.8         -36           07/19/16         0.28         9.4         41           08/08/16         6.81         9.5         -76           02/01/17         0.34         7.1         -60           03/23/17         0.88         7.9         -34           11/20/17         0.93         7.0         -4           03/01/18         1.08         7.9         -40           07/25/18         0.81         6.2         -43           02/25/19         1.17         6.5         -64           06/26/19         2.12         6.2         -31           10/11/19         0.53         6.4				, ,
11/27/12         -         8.3         -185           03/13/13         0.82         6.7         21           06/04/13         0.15         6.9         -82           09/19/13         3.68         7.1         -62           04/03/14         0.66         6.6         -65           07/15/14         0.92         7.6         -91           10/15/14         .59+         7.1         154           01/28/15         0.68         5.8         -36           07/19/16         0.28         9.4         41           08/08/16         6.81         9.5         -76           02/01/17         0.34         7.1         -60           03/23/17         0.88         7.9         -34           11/20/17         0.93         7.0         -4           03/01/18         1.08         7.9         -40           07/25/18         0.81         6.2         -43           02/25/19         1.17         6.5         -64           06/26/19         2.12         6.2         -31           10/11/19         0.53         6.4         331           02/25/20         1.91         7.3         <				
03/13/13         0.82         6.7         21           06/04/13         0.15         6.9         -82           09/19/13         3.68         7.1         -62           04/03/14         0.66         6.6         -65           07/15/14         0.92         7.6         -91           10/15/14         .59+         7.1         154           01/28/15         0.68         5.8         -36           07/19/16         0.28         9.4         41           08/08/16         6.81         9.5         -76           02/01/17         0.34         7.1         -60           03/23/17         0.88         7.9         -34           11/20/17         0.93         7.0         -4           03/01/18         1.08         7.9         -40           07/25/18         0.81         6.2         -43           02/25/19         1.17         6.5         -64           06/26/19         2.12         6.2         -31           10/11/19         0.53         6.4         331           02/25/20         1.91         7.3         9           06/11/20         1.15         6.4         <				
06/04/13         0.15         6.9         -82           09/19/13         3.68         7.1         -62           04/03/14         0.66         6.6         -65           07/15/14         0.92         7.6         -91           10/15/14         .59+         7.1         154           01/28/15         0.68         5.8         -36           07/19/16         0.28         9.4         41           08/08/16         6.81         9.5         -76           02/01/17         0.34         7.1         -60           03/23/17         0.88         7.9         -34           11/20/17         0.93         7.0         -4           03/01/18         1.08         7.9         -40           07/25/18         0.81         6.2         -43           02/25/19         1.17         6.5         -64           06/26/19         2.12         6.2         -31           10/11/19         0.53         6.4         331           02/25/20         1.91         7.3         9           06/11/20         1.15         6.4         72           09/18/20         0.32         6.7         <				
09/19/13         3.68         7.1         -62           04/03/14         0.66         6.6         -65           07/15/14         0.92         7.6         -91           10/15/14         .59+         7.1         154           01/28/15         0.68         5.8         -36           07/19/16         0.28         9.4         41           08/08/16         6.81         9.5         -76           02/01/17         0.34         7.1         -60           03/23/17         0.88         7.9         -34           11/20/17         0.93         7.0         -4           03/01/18         1.08         7.9         -40           07/25/18         0.81         6.2         -43           02/25/19         1.17         6.5         -64           06/26/19         2.12         6.2         -31           10/11/19         0.53         6.4         331           02/25/20         1.91         7.3         9           06/11/20         1.15         6.4         72           09/18/20         0.32         6.7         77           03/24/21         4.80         7.12         <				
04/03/14         0.66         6.6         -65           07/15/14         0.92         7.6         -91           10/15/14         .59+         7.1         154           01/28/15         0.68         5.8         -36           07/19/16         0.28         9.4         41           08/08/16         6.81         9.5         -76           02/01/17         0.34         7.1         -60           03/23/17         0.88         7.9         -34           11/20/17         0.93         7.0         -4           03/01/18         1.08         7.9         -40           07/25/18         0.81         6.2         -43           02/25/19         1.17         6.5         -64           06/26/19         2.12         6.2         -31           10/11/19         0.53         6.4         331           02/25/20         1.91         7.3         9           06/11/20         1.15         6.4         72           09/18/20         0.32         6.7         77           03/24/21         4.80         7.12         -1.2           06/09/21         1.82         6.36				
07/15/14         0.92         7.6         -91           10/15/14         .59+         7.1         154           01/28/15         0.68         5.8         -36           07/19/16         0.28         9.4         41           08/08/16         6.81         9.5         -76           02/01/17         0.34         7.1         -60           03/23/17         0.88         7.9         -34           11/20/17         0.93         7.0         -4           03/01/18         1.08         7.9         -40           07/25/18         0.81         6.2         -43           02/25/19         1.17         6.5         -64           06/26/19         2.12         6.2         -31           10/11/19         0.53         6.4         331           02/25/20         1.91         7.3         9           06/11/20         1.15         6.4         72           09/18/20         0.32         6.7         77           03/24/21         4.80         7.12         -1.2           06/09/21         1.82         6.36         -56.5				
10/15/14         .59+         7.1         154           01/28/15         0.68         5.8         -36           07/19/16         0.28         9.4         41           08/08/16         6.81         9.5         -76           02/01/17         0.34         7.1         -60           03/23/17         0.88         7.9         -34           11/20/17         0.93         7.0         -4           03/01/18         1.08         7.9         -40           07/25/18         0.81         6.2         -43           02/25/19         1.17         6.5         -64           06/26/19         2.12         6.2         -31           10/11/19         0.53         6.4         331           02/25/20         1.91         7.3         9           06/11/20         1.15         6.4         72           09/18/20         0.32         6.7         77           03/24/21         4.80         7.12         -1.2           06/09/21         1.82         6.36         -56.5				
01/28/15         0.68         5.8         -36           07/19/16         0.28         9.4         41           08/08/16         6.81         9.5         -76           02/01/17         0.34         7.1         -60           03/23/17         0.88         7.9         -34           11/20/17         0.93         7.0         -4           03/01/18         1.08         7.9         -40           07/25/18         0.81         6.2         -43           02/25/19         1.17         6.5         -64           06/26/19         2.12         6.2         -31           10/11/19         0.53         6.4         331           02/25/20         1.91         7.3         9           06/11/20         1.15         6.4         72           09/18/20         0.32         6.7         77           03/24/21         4.80         7.12         -1.2           06/09/21         1.82         6.36         -56.5				
07/19/16         0.28         9.4         41           08/08/16         6.81         9.5         -76           02/01/17         0.34         7.1         -60           03/23/17         0.88         7.9         -34           11/20/17         0.93         7.0         -4           03/01/18         1.08         7.9         -40           07/25/18         0.81         6.2         -43           02/25/19         1.17         6.5         -64           06/26/19         2.12         6.2         -31           10/11/19         0.53         6.4         331           02/25/20         1.91         7.3         9           06/11/20         1.15         6.4         72           09/18/20         0.32         6.7         77           03/24/21         4.80         7.12         -1.2           06/09/21         1.82         6.36         -56.5	10/15/14	.59+	7.1	154
08/08/16         6.81         9.5         -76           02/01/17         0.34         7.1         -60           03/23/17         0.88         7.9         -34           11/20/17         0.93         7.0         -4           03/01/18         1.08         7.9         -40           07/25/18         0.81         6.2         -43           02/25/19         1.17         6.5         -64           06/26/19         2.12         6.2         -31           10/11/19         0.53         6.4         331           02/25/20         1.91         7.3         9           06/11/20         1.15         6.4         72           09/18/20         0.32         6.7         77           03/24/21         4.80         7.12         -1.2           06/09/21         1.82         6.36         -56.5				
02/01/17         0.34         7.1         -60           03/23/17         0.88         7.9         -34           11/20/17         0.93         7.0         -4           03/01/18         1.08         7.9         -40           07/25/18         0.81         6.2         -43           02/25/19         1.17         6.5         -64           06/26/19         2.12         6.2         -31           10/11/19         0.53         6.4         331           02/25/20         1.91         7.3         9           06/11/20         1.15         6.4         72           09/18/20         0.32         6.7         77           03/24/21         4.80         7.12         -1.2           06/09/21         1.82         6.36         -56.5	07/19/16	0.28	9.4	41
03/23/17         0.88         7.9         -34           11/20/17         0.93         7.0         -4           03/01/18         1.08         7.9         -40           07/25/18         0.81         6.2         -43           02/25/19         1.17         6.5         -64           06/26/19         2.12         6.2         -31           10/11/19         0.53         6.4         331           02/25/20         1.91         7.3         9           06/11/20         1.15         6.4         72           09/18/20         0.32         6.7         77           03/24/21         4.80         7.12         -1.2           06/09/21         1.82         6.36         -56.5	08/08/16	6.81	9.5	-76
11/20/17         0.93         7.0         -4           03/01/18         1.08         7.9         -40           07/25/18         0.81         6.2         -43           02/25/19         1.17         6.5         -64           06/26/19         2.12         6.2         -31           10/11/19         0.53         6.4         331           02/25/20         1.91         7.3         9           06/11/20         1.15         6.4         72           09/18/20         0.32         6.7         77           03/24/21         4.80         7.12         -1.2           06/09/21         1.82         6.36         -56.5	02/01/17	0.34	7.1	-60
03/01/18         1.08         7.9         -40           07/25/18         0.81         6.2         -43           02/25/19         1.17         6.5         -64           06/26/19         2.12         6.2         -31           10/11/19         0.53         6.4         331           02/25/20         1.91         7.3         9           06/11/20         1.15         6.4         72           09/18/20         0.32         6.7         77           03/24/21         4.80         7.12         -1.2           06/09/21         1.82         6.36         -56.5	03/23/17	0.88	7.9	-34
07/25/18         0.81         6.2         -43           02/25/19         1.17         6.5         -64           06/26/19         2.12         6.2         -31           10/11/19         0.53         6.4         331           02/25/20         1.91         7.3         9           06/11/20         1.15         6.4         72           09/18/20         0.32         6.7         77           03/24/21         4.80         7.12         -1.2           06/09/21         1.82         6.36         -56.5	11/20/17	0.93	7.0	-4
02/25/19         1.17         6.5         -64           06/26/19         2.12         6.2         -31           10/11/19         0.53         6.4         331           02/25/20         1.91         7.3         9           06/11/20         1.15         6.4         72           09/18/20         0.32         6.7         77           03/24/21         4.80         7.12         -1.2           06/09/21         1.82         6.36         -56.5	03/01/18	1.08	7.9	-40
06/26/19     2.12     6.2     -31       10/11/19     0.53     6.4     331       02/25/20     1.91     7.3     9       06/11/20     1.15     6.4     72       09/18/20     0.32     6.7     77       03/24/21     4.80     7.12     -1.2       06/09/21     1.82     6.36     -56.5	07/25/18	0.81	6.2	-43
10/11/19     0.53     6.4     331       02/25/20     1.91     7.3     9       06/11/20     1.15     6.4     72       09/18/20     0.32     6.7     77       03/24/21     4.80     7.12     -1.2       06/09/21     1.82     6.36     -56.5	02/25/19	1.17	6.5	-64
02/25/20     1.91     7.3     9       06/11/20     1.15     6.4     72       09/18/20     0.32     6.7     77       03/24/21     4.80     7.12     -1.2       06/09/21     1.82     6.36     -56.5	06/26/19	2.12	6.2	-31
06/11/20     1.15     6.4     72       09/18/20     0.32     6.7     77       03/24/21     4.80     7.12     -1.2       06/09/21     1.82     6.36     -56.5	10/11/19	0.53	6.4	331
09/18/20     0.32     6.7     77       03/24/21     4.80     7.12     -1.2       06/09/21     1.82     6.36     -56.5	02/25/20	1.91	7.3	9
03/24/21     4.80     7.12     -1.2       06/09/21     1.82     6.36     -56.5	06/11/20	1.15	6.4	72
06/09/21 1.82 6.36 -56.5	09/18/20	0.32	6.7	77
	03/24/21	4.80	7.12	-1.2
09/07/21 1.14 6.24 22.4	06/09/21	1.82	6.36	-56.5
	09/07/21	1.14	6.24	22.4

	Monitoring Point Data Summary Table									
SITE NAME:	Į.	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-12			
INSTALLATION DATE:	10/13/10	WELL DEPTH (FT BTOC):	48.4	SCREEN LENGTH (FT):	3.0	CASING ELEV (FT ABOVE MSL):	676.92	WELL TYPE: DIAMETER (IN):	III 2	
Notes: BTOC (Below T	Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

		GROUN	DWATER ANAL	YTICAL SUMMAR	Y (mg/L)		
SAMPLE DATE	МТВЕ	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
10/19/10	5.09	4.26	7.04	1.81	7.6	20.7	-
07/11/11	1.62	4.13	14.0	2.28	13.8	34.2	-
11/27/12	6.31	3.52	2.87	1.49	5.75	13.63	-
03/13/13	2.08	2.04	3.03	1.02	3.91	10.00	-
06/04/13	0.75	1.21	2.32	<0.05	5.04	8.57	-
09/19/13	2.03	1.66	0.571	0.397	3.82	6.45	-
04/03/14	0.610	1.19	1.74	1.52	5.56	10.01	0.262
07/15/14	3.55	0.679	<0.05	<0.05	0.502	1.181	0.101
10/15/14	3.91	1.56	0.389	0.751	1.89	4.59	0.195
01/28/15	2.16	2.41	2.08	2.38	7.04	13.91	0.366
07/19/16	0.633	1.72	7.51	2.14	15.10	26.47	0.578
08/08/16	0.712	1.98	6.88	3.90	12.90	25.66	0.409
02/01/17	0.22	1.27	8.57	2.43	11.20	23.47	0.368
03/23/17	0.572	1.44	5.4	1.58	8	16.4	1.24
11/20/17	0.261	0.955	3.44	2.14	6.99	13.53	0.427
03/01/18	<0.1	1.21	1.32	0.492	4.45	7.47	<0.1
07/25/18	0.236	0.849	3.32	2.11	7.12	13.40	0.508
02/25/19	0.267	0.726	2.98	1.82	6.56	12.09	0.353
06/26/19	0.212	1.760	5.12	3.8	10.6	21.3	0.415
10/11/19	0.184	1.45	4.77	4.03	12.2	22.5	0.453
02/25/20	0.092	0.70	2.45	1.86	6.64	11.65	0.416
06/11/20	0.199	0.728	2.160	1.830	6.080	10.798	0.740
09/18/20	0.166	0.276	0.732	0.816	2.110	3.934	0.272
03/24/21	0.171	0.428	1.13	0.225	2.96	4.74	0.246
06/09/21	0.147	0.559	1.52	0.622	3.58	6.28	0.192
09/07/21	0.118	0.381	1.09	0.322	2.08	3.87	0.087
GRP SSTLs:	0.0239	0.00598	1.2	0.838	12	-	0.0239
Inhalation SSTLs:	16000	8.42	526	169	175	-	26.4

	Monitoring Point Data Summary Table									
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-13			
INSTALLATION 10/13/10 WELL DEPTH 35.3 SCREEN 15.0 CASING ELEV 677.49 WELL TYPE: II DATE: (FT BTOC): LENGTH (FT): (FT ABOVE MSL): DIAMETER (IN): 2										
Notes: BTOC (Below To	Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

	POTENTIOM	ETRIC ELEVATIO	N SUMMARY	
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED
10/19/10	27.20	650.29	ı	-
07/11/11	23.57	653.92	-	-
11/27/12	26.24	651.25	-	-
03/13/13	14.93	662.56	-	-
06/04/13	22.27	655.22	-	-
09/19/13	25.68	651.81	-	-
04/03/14	15.11	662.38	-	-
07/15/14	25.87	651.62	-	-
10/15/14	15.59	661.90	-	-
01/28/15	18.12	659.37	-	-
07/19/16	18.12	659.37	-	-
08/08/16	20.97	656.52	-	-
02/01/17	8.28	669.21	-	-
03/23/17	20.79	656.70	-	-
11/20/17	23.04	654.45	-	-
03/01/18	11.65	665.84	-	-
07/25/18	23.59	653.90	-	-
02/25/19	9.18	668.31	-	-
06/26/19	21.91	655.58	-	-
10/11/19	23.11	654.38	-	-
02/25/20	9.44	668.05	-	-
06/11/20	20.92	656.57	-	-
09/18/20	24.13	653.36	-	-
03/24/21	13.35	664.14	-	9.5
06/09/21	19.71	657.78	-	7.5
09/07/21	16.55	660.94	-	6.0

DISSOLVED   DISSOLVED   OXYGEN (mg/L)   DH   (mV)   (mV)	INTRIN	ISIC GROUNDW	ATER DATA SUN	/IMARY
10/19/10         0.52         6.1         -126           07/11/11         0.46         5.2         62           11/27/12         -         5.8         -16           03/13/13         0.49         6.2         -48           06/04/13         0.33         6.5         -46           09/19/13         1.63         5.7         -28           04/03/14         0.74         6.1         -8           07/15/14         0.19         6.5         -8           10/15/14         1.28         6.3         12           01/28/15         1.54         6.0         -16           07/19/16         0.34         6.7         -47           08/08/16         5.35         7.2         -22           02/01/17         0.20         6.4         -16           03/23/17         1.84         7.5         -35           11/20/17         0.88         7.5         -12           03/01/18         0.87         7.6         79           07/25/18         0.92         6.1         -17           06/26/19         3.19         6.1         -10           10/11/19         0.63         7.3 <td< th=""><th></th><th></th><th></th><th>REDOX POTENTIAL</th></td<>				REDOX POTENTIAL
07/11/11         0.46         5.2         62           11/27/12         -         5.8         -16           03/13/13         0.49         6.2         -48           06/04/13         0.33         6.5         -46           09/19/13         1.63         5.7         -28           04/03/14         0.74         6.1         -8           07/15/14         0.19         6.5         -8           10/15/14         1.28         6.3         12           01/28/15         1.54         6.0         -16           07/19/16         0.34         6.7         -47           08/08/16         5.35         7.2         -22           02/01/17         0.20         6.4         -16           03/23/17         1.84         7.5         -35           11/20/17         0.88         7.5         -12           03/01/18         0.87         7.6         79           07/25/18         0.92         6.1         -17           02/25/19         1.19         6.3         11           06/26/19         3.19         6.1         -10           10/11/19         0.63         7.3         8				,
11/27/12         -         5.8         -16           03/13/13         0.49         6.2         -48           06/04/13         0.33         6.5         -46           09/19/13         1.63         5.7         -28           04/03/14         0.74         6.1         -8           07/15/14         0.19         6.5         -8           10/15/14         1.28         6.3         12           01/28/15         1.54         6.0         -16           07/19/16         0.34         6.7         -47           08/08/16         5.35         7.2         -22           02/01/17         0.20         6.4         -16           03/23/17         1.84         7.5         -35           11/20/17         0.88         7.5         -12           03/01/18         0.87         7.6         79           07/25/18         0.92         6.1         -17           02/25/19         1.19         6.3         11           06/26/19         3.19         6.1         -10           10/11/19         0.63         7.3         86           02/25/20         1.52         7.3         1			-	
03/13/13         0.49         6.2         -48           06/04/13         0.33         6.5         -46           09/19/13         1.63         5.7         -28           04/03/14         0.74         6.1         -8           07/15/14         0.19         6.5         -8           10/15/14         1.28         6.3         12           01/28/15         1.54         6.0         -16           07/19/16         0.34         6.7         -47           08/08/16         5.35         7.2         -22           02/01/17         0.20         6.4         -16           03/23/17         1.84         7.5         -35           11/20/17         0.88         7.5         -12           03/01/18         0.87         7.6         79           07/25/18         0.92         6.1         -17           02/25/19         1.19         6.3         11           06/26/19         3.19         6.1         -10           10/11/19         0.63         7.3         86           02/25/20         1.52         7.3         184           06/11/20         0.87         6.5 <t< td=""><td></td><td>0.46</td><td></td><td></td></t<>		0.46		
06/04/13         0.33         6.5         -46           09/19/13         1.63         5.7         -28           04/03/14         0.74         6.1         -8           07/15/14         0.19         6.5         -8           10/15/14         1.28         6.3         12           01/28/15         1.54         6.0         -16           07/19/16         0.34         6.7         -47           08/08/16         5.35         7.2         -22           02/01/17         0.20         6.4         -16           03/23/17         1.84         7.5         -35           11/20/17         0.88         7.5         -12           03/01/18         0.87         7.6         79           07/25/18         0.92         6.1         -17           02/25/19         1.19         6.3         11           06/26/19         3.19         6.1         -10           10/11/19         0.63         7.3         86           02/25/20         1.52         7.3         184           06/11/20         0.87         6.5         108           09/18/20         0.38         6.9 <t< td=""><td></td><td></td><td></td><td></td></t<>				
09/19/13         1.63         5.7         -28           04/03/14         0.74         6.1         -8           07/15/14         0.19         6.5         -8           10/15/14         1.28         6.3         12           01/28/15         1.54         6.0         -16           07/19/16         0.34         6.7         -47           08/08/16         5.35         7.2         -22           02/01/17         0.20         6.4         -16           03/23/17         1.84         7.5         -35           11/20/17         0.88         7.5         -12           03/01/18         0.87         7.6         79           07/25/18         0.92         6.1         -17           02/25/19         1.19         6.3         11           06/26/19         3.19         6.1         -10           10/11/19         0.63         7.3         86           02/25/20         1.52         7.3         184           06/11/20         0.87         6.5         108           09/18/20         0.38         6.9         184           03/24/21         5.32         7.07         <				-
04/03/14         0.74         6.1         -8           07/15/14         0.19         6.5         -8           10/15/14         1.28         6.3         12           01/28/15         1.54         6.0         -16           07/19/16         0.34         6.7         -47           08/08/16         5.35         7.2         -22           02/01/17         0.20         6.4         -16           03/23/17         1.84         7.5         -35           11/20/17         0.88         7.5         -12           03/01/18         0.87         7.6         79           07/25/18         0.92         6.1         -17           02/25/19         1.19         6.3         11           06/26/19         3.19         6.1         -10           10/11/19         0.63         7.3         86           02/25/20         1.52         7.3         184           06/11/20         0.87         6.5         108           09/18/20         0.38         6.9         184           03/24/21         5.32         7.07         255.6           06/09/21         1.36         5.85				
07/15/14         0.19         6.5         -8           10/15/14         1.28         6.3         12           01/28/15         1.54         6.0         -16           07/19/16         0.34         6.7         -47           08/08/16         5.35         7.2         -22           02/01/17         0.20         6.4         -16           03/23/17         1.84         7.5         -35           11/20/17         0.88         7.5         -12           03/01/18         0.87         7.6         79           07/25/18         0.92         6.1         -17           02/25/19         1.19         6.3         11           06/26/19         3.19         6.1         -10           10/11/19         0.63         7.3         86           02/25/20         1.52         7.3         184           06/11/20         0.87         6.5         108           09/18/20         0.38         6.9         184           03/24/21         5.32         7.07         255.6           06/09/21         1.36         5.85         -27.4				
10/15/14         1.28         6.3         12           01/28/15         1.54         6.0         -16           07/19/16         0.34         6.7         -47           08/08/16         5.35         7.2         -22           02/01/17         0.20         6.4         -16           03/23/17         1.84         7.5         -35           11/20/17         0.88         7.5         -12           03/01/18         0.87         7.6         79           07/25/18         0.92         6.1         -17           02/25/19         1.19         6.3         11           06/26/19         3.19         6.1         -10           10/11/19         0.63         7.3         86           02/25/20         1.52         7.3         184           06/11/20         0.87         6.5         108           09/18/20         0.38         6.9         184           03/24/21         5.32         7.07         255.6           06/09/21         1.36         5.85         -27.4		0.74	6.1	-8
01/28/15         1.54         6.0         -16           07/19/16         0.34         6.7         -47           08/08/16         5.35         7.2         -22           02/01/17         0.20         6.4         -16           03/23/17         1.84         7.5         -35           11/20/17         0.88         7.5         -12           03/01/18         0.87         7.6         79           07/25/18         0.92         6.1         -17           02/25/19         1.19         6.3         11           06/26/19         3.19         6.1         -10           10/11/19         0.63         7.3         86           02/25/20         1.52         7.3         184           06/11/20         0.87         6.5         108           09/18/20         0.38         6.9         184           03/24/21         5.32         7.07         255.6           06/09/21         1.36         5.85         -27.4				_
07/19/16         0.34         6.7         -47           08/08/16         5.35         7.2         -22           02/01/17         0.20         6.4         -16           03/23/17         1.84         7.5         -35           11/20/17         0.88         7.5         -12           03/01/18         0.87         7.6         79           07/25/18         0.92         6.1         -17           02/25/19         1.19         6.3         11           06/26/19         3.19         6.1         -10           10/11/19         0.63         7.3         86           02/25/20         1.52         7.3         184           06/11/20         0.87         6.5         108           09/18/20         0.38         6.9         184           03/24/21         5.32         7.07         255.6           06/09/21         1.36         5.85         -27.4	10/15/14	1.28	6.3	12
08/08/16         5.35         7.2         -22           02/01/17         0.20         6.4         -16           03/23/17         1.84         7.5         -35           11/20/17         0.88         7.5         -12           03/01/18         0.87         7.6         79           07/25/18         0.92         6.1         -17           02/25/19         1.19         6.3         11           06/26/19         3.19         6.1         -10           10/11/19         0.63         7.3         86           02/25/20         1.52         7.3         184           06/11/20         0.87         6.5         108           09/18/20         0.38         6.9         184           03/24/21         5.32         7.07         255.6           06/09/21         1.36         5.85         -27.4				
02/01/17         0.20         6.4         -16           03/23/17         1.84         7.5         -35           11/20/17         0.88         7.5         -12           03/01/18         0.87         7.6         79           07/25/18         0.92         6.1         -17           02/25/19         1.19         6.3         11           06/26/19         3.19         6.1         -10           10/11/19         0.63         7.3         86           02/25/20         1.52         7.3         184           06/11/20         0.87         6.5         108           09/18/20         0.38         6.9         184           03/24/21         5.32         7.07         255.6           06/09/21         1.36         5.85         -27.4	07/19/16	0.34	6 .7	-47
03/23/17         1.84         7.5         -35           11/20/17         0.88         7.5         -12           03/01/18         0.87         7.6         79           07/25/18         0.92         6.1         -17           02/25/19         1.19         6.3         11           06/26/19         3.19         6.1         -10           10/11/19         0.63         7.3         86           02/25/20         1.52         7.3         184           06/11/20         0.87         6.5         108           09/18/20         0.38         6.9         184           03/24/21         5.32         7.07         255.6           06/09/21         1.36         5.85         -27.4	08/08/16	5.35	7.2	-22
11/20/17         0.88         7.5         -12           03/01/18         0.87         7.6         79           07/25/18         0.92         6.1         -17           02/25/19         1.19         6.3         11           06/26/19         3.19         6.1         -10           10/11/19         0.63         7.3         86           02/25/20         1.52         7.3         184           06/11/20         0.87         6.5         108           09/18/20         0.38         6.9         184           03/24/21         5.32         7.07         255.6           06/09/21         1.36         5.85         -27.4	02/01/17	0.20	6.4	-16
03/01/18         0.87         7.6         79           07/25/18         0.92         6.1         -17           02/25/19         1.19         6.3         11           06/26/19         3.19         6.1         -10           10/11/19         0.63         7.3         86           02/25/20         1.52         7.3         184           06/11/20         0.87         6.5         108           09/18/20         0.38         6.9         184           03/24/21         5.32         7.07         255.6           06/09/21         1.36         5.85         -27.4	03/23/17	1.84	7.5	-35
07/25/18         0.92         6.1         -17           02/25/19         1.19         6.3         11           06/26/19         3.19         6.1         -10           10/11/19         0.63         7.3         86           02/25/20         1.52         7.3         184           06/11/20         0.87         6.5         108           09/18/20         0.38         6.9         184           03/24/21         5.32         7.07         255.6           06/09/21         1.36         5.85         -27.4	11/20/17	0.88	7.5	-12
02/25/19         1.19         6.3         11           06/26/19         3.19         6.1         -10           10/11/19         0.63         7.3         86           02/25/20         1.52         7.3         184           06/11/20         0.87         6.5         108           09/18/20         0.38         6.9         184           03/24/21         5.32         7.07         255.6           06/09/21         1.36         5.85         -27.4	03/01/18	0.87	7.6	79
06/26/19     3.19     6.1     -10       10/11/19     0.63     7.3     86       02/25/20     1.52     7.3     184       06/11/20     0.87     6.5     108       09/18/20     0.38     6.9     184       03/24/21     5.32     7.07     255.6       06/09/21     1.36     5.85     -27.4	07/25/18	0.92	6.1	-17
10/11/19     0.63     7.3     86       02/25/20     1.52     7.3     184       06/11/20     0.87     6.5     108       09/18/20     0.38     6.9     184       03/24/21     5.32     7.07     255.6       06/09/21     1.36     5.85     -27.4	02/25/19	1.19	6.3	11
02/25/20     1.52     7.3     184       06/11/20     0.87     6.5     108       09/18/20     0.38     6.9     184       03/24/21     5.32     7.07     255.6       06/09/21     1.36     5.85     -27.4	06/26/19	3.19	6.1	-10
06/11/20     0.87     6.5     108       09/18/20     0.38     6.9     184       03/24/21     5.32     7.07     255.6       06/09/21     1.36     5.85     -27.4	10/11/19	0.63	7.3	86
09/18/20     0.38     6.9     184       03/24/21     5.32     7.07     255.6       06/09/21     1.36     5.85     -27.4	02/25/20	1.52	7.3	184
03/24/21     5.32     7.07     255.6       06/09/21     1.36     5.85     -27.4	06/11/20	0.87	6.5	108
06/09/21 1.36 5.85 -27.4	09/18/20	0.38	6.9	184
···	03/24/21	5.32	7.07	255.6
09/07/21 1.20 6.17 203.3	06/09/21	1.36	5.85	-27.4
	09/07/21	1.20	6.17	203.3

Monitoring Point Data Summary Table									
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:		MW-13	
INSTALLATION DATE:	10/13/10	WELL DEPTH (FT BTOC):	35.3	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT ABOVE MSL):	677.49	WELL TYPE: DIAMETER (IN):	II 2
Notes: BTOC (Below To	op of Casing); MSL (N	lean Sea Level); BDL (Belov	w Detection Limit)	; CA (Corrective Action)	)				

		GROUN	DWATER ANAL	YTICAL SUMMAR	RY (mg/L)		
SAMPLE DATE	МТВЕ	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
10/19/10	5.91	0.745	<0.05	0.15	0.081	0.98	-
07/11/11	5.42	0.648	0.0620	0.188	0.105	1.003	-
11/27/12	8.08	0.219	0.0560	0.077	0.124	0.476	-
03/13/13	1.58	0.100	0.0500	0.082	0.119	0.351	-
06/04/13	1.27	0.053	0.0350	0.046	0.059	0.193	-
09/19/13	4.17	0.035	<0.025	<0.025	0.062	0.097	-
04/03/14	0.315	0.010	<0.005	<0.005	<0.005	0.010	<0.005
07/15/14	4.56	<0.05	<0.05	<0.05	<0.05	BDL	<0.05
10/15/14	1.72	0.035	<0.025	0.045	0.041	0.121	0.0670
01/28/15	0.340	0.120	0.0300	0.088	0.087	0.325	0.0590
07/19/16	0.036	0.016	<0.01	0.016	<0.01	0.032	0.0350
08/08/16	0.062	0.018	<0.001	0.012	0.01	0.04	0.0320
02/01/17	0.034	<0.001	<0.001	<0.001	<0.001	BDL	0.0030
03/23/17	0.089	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
11/20/17	0.197	<0.001	<0.001	<0.001	<0.001	BDL	<0.005
03/01/18	0.014	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
07/25/18	0.454	<0.005	<0.005	<0.005	<0.005	BDL	<0.001
02/25/19	0.015	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
06/26/19	0.011	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
10/11/19	0.017	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
02/25/20	0.025	<0.001	<0.001	<0.001	< 0.003	BDL	<0.005
06/11/20	0.884	<0.001	<0.001	<0.001	<0.003	BDL	<0.005
09/18/20	0.035	<0.001	<0.001	<0.001	<0.003	BDL	<0.005
03/24/21	0.427	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
06/09/21	0.063	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
09/07/21	0.006	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
GRP SSTLs:	0.0239	0.00598	1.2	0.838	12	-	0.0239
Inhalation SSTLs:	16000	8.42	526	169	175	-	26.4

	Monitoring Point Data Summary Table								
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:		MW-14	
INSTALLATION 07/18/16 WELL DEPTH 33.9 SCREEN 10.0 CASING ELEV 677.52 WELL TYPE: II LENGTH (FT): (FT ABOVE MSL): DIAMETER (IN): 2							II 2		
Notes: BTOC (Below To	op of Casing); MSL (M	lean Sea Level); BDL (Belov	w Detection Limit)	; CA (Corrective Action)					

	POTENTIOM	ETRIC ELEVATIO	N SUMMARY	
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED
07/21/16	31.53	645.99	-	-
08/08/16	21.50	656.02	-	-
02/01/17	13.50	664.02	-	-
03/23/17	21.05	656.47	-	-
11/20/17	22.94	654.58	-	-
03/01/18	9.42	668.10	-	-
07/25/18	22.96	654.56	-	-
02/25/19	6.73	670.79	-	-
06/26/19	21.61	655.91	-	-
10/11/19	26.03	651.49	-	-
02/25/20	7.48	670.04	-	-
06/11/20	22.05	655.47	•	-
09/18/20	25.18	652.34	ı	ı
03/24/21	12.02	665.50	•	8.0
06/09/21	10.71	666.81	-	12.0
09/07/21	16.19	661.33	=	6.0

INTRIN	ISIC GROUNDW	ATER DATA SUN	ИMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pН	(mV)
07/21/16	1.39	5.5	140
08/08/16	7.49	6.5	54
02/01/17	0.78	6.1	-5
03/23/17	0.28	6.9	-27
11/20/17	1.22	7.2	35
03/01/18	1.86	7.1	78
07/25/18	0.88	6.0	-16
02/25/19	1.42	6.0	-1
06/26/19	2.38	6.3	-16
10/11/19	0.48	5.3	182
02/25/20	1.68	7.9	-29
06/11/20	1.02	6.5	91
09/18/20	0.05	7.4	46
03/24/21	5.38	6.1	152
06/09/21	2.36	7.93	-30
09/07/21	1.13	6.43	154.8

	Monitoring Point Data Summary Table									
SITE NAME:	Į.	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:		MW-14		
INSTALLATION DATE:	07/18/16	WELL DEPTH (FT BTOC):	33.9	SCREEN LENGTH (FT):	10.0	CASING ELEV (FT ABOVE MSL):	677.52	WELL TYPE: DIAMETER (IN):	II 2	
Notes: BTOC (Below T	otes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

		GROUN	DWATER ANAL	YTICAL SUMMAR	RY (mg/L)		
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
07/21/16	1.55	0.764	1.29	0.983	3.16	6.20	0.311
08/08/16	0.904	0.623	0.827	0.792	2.36	4.60	0.206
02/01/17	0.4	0.425	0.482	0.704	1.02	2.63	0.169
03/23/17	0.132	0.258	0.156	0.61	0.475	1.50	0.107
11/20/17	0.141	1.87	14.5	3.38	9.72	29.47	0.596
03/01/18	<0.1	2.12	3.33	<0.1	5.94	11.39	0.226
07/25/18	0.166	0.601	4.60	1.89	7.12	14.21	0.483
02/25/19	0.357	0.196	0.283	0.480	1.46	2.42	0.183
06/26/19	0.457	0.803	3.37	2.64	3.08	9.89	0.338
10/11/19	0.335	0.579	1.19	1.76	2.54	6.07	0.296
02/25/20	0.15	0.077	0.073	0.263	0.48	0.89	0.082
06/11/20	0.071	0.037	0.129	0.245	0.474	0.89	0.052
09/18/20	0.099	0.014	0.014	0.275	0.184	0.49	0.069
03/24/21	0.040	0.070	0.245	0.085	1.16	1.56	0.127
06/09/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
09/07/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
	-						
GRP SSTLs:	0.0239	0.00597	1.19	0.836	11.9	-	0.0239
Inhalation SSTLs:	16000	8.42	526	169	175		26.4

	Monitoring Point Data Summary Table								
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:		MW-15	
INSTALLATION 07/18/16 WELL DEPTH 42.7 SCREEN 10.0 CASING ELEV 677.48 WELL TYPE: II LENGTH (FT): USAGE OF TABOVE MSL): OT ABOVE MSL):								II 2	
Notes: BTOC (Below To	op of Casing); MSL (M	lean Sea Level); BDL (Belov	v Detection Limit)	; CA (Corrective Action)					

	POTENTIOM	ETRIC ELEVATIO	N SUMMARY	
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED
07/21/16	25.98	651.50	-	-
08/08/16	24.86	652.62	-	-
02/01/17	13.67	663.81	-	-
03/23/17	22.12	655.36	-	-
11/20/17	25.22	652.26	-	-
03/01/18	10.14	667.34	-	-
07/25/18	25.15	652.33	-	-
02/25/19	7.62	669.86	-	-
06/26/19	23.34	654.14	-	-
10/11/19	27.05	650.43	-	-
02/25/20	8.19	669.29	-	-
06/11/20	23.08	654.40	=	=
09/18/20	27.49	649.99	-	=
03/24/21	12.15	665.33	=	10.0
06/09/21	13.44	664.04	-	14.0
09/07/21	17.15	660.33	-	10.0

INTRIN	ISIC GROUNDW	ATER DATA SUN	ИMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pН	(mV)
07/21/16	0.41	6.0	193
08/08/16	7.56	6.6	66
02/01/17	0.72	6.7	39
03/23/17	0.63	7.3	-18
11/20/17	0.62	-7.3	12
03/01/18	1.02	7.4	18
07/25/18	0.58	6.1	-45
02/25/19	1.51	6.3	-64
06/26/19	2.41	6.2	-20
10/11/19	0.35	6.1	-77
02/25/20	1.64	7.3	-22
06/11/20	1.73	6.9	162
09/18/20	0.05	7.0	38
03/24/21	6.68	7.38	17.6
06/09/21	3.17	6.11	-21.9
09/07/21	1.28	6.14	155.4

	Monitoring Point Data Summary Table									
SITE NAME:	P	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:		MW-15		
	INSTALLATION O7/18/16 WELL DEPTH 42.7 SCREEN 10.0 CASING ELEV 677.48 WELL TYPE: II DATE: (FT BTOC): LENGTH (FT): 0.0 (FT ABOVE MSL):							II 2		
Notes: BTOC (Below T	Top of Casing); MSL (M	lean Sea Level); BDL (Belov	w Detection Limit)	; CA (Corrective Action)						

		GROUN	DWATER ANAL	YTICAL SUMMAF	RY (mg/L)		
SAMPLE DATE	МТВЕ	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
07/21/16	0.299	0.858	3.46	1.87	11.30	17.49	0.581
08/08/16	0.318	0.778	3.04	2.06	11.90	17.78	0.716
02/01/17	<0.1	0.366	2.57	2.39	10.60	15.93	0.415
03/23/17	<0.1	0.941	2.18	3.13	8.96	15.21	0.463
11/20/17	<0.25	0.600	3.15	2.69	10.9	17.34	0.693
03/01/18	<0.1	0.190	0.335	0.259	3.91	4.69	0.523
07/25/18	0.127	0.337	1.63	2.43	10.9	15.3	0.733
02/25/19	0.350	0.467	1.58	2.41	12.6	17.1	0.642
06/26/19	0.496	0.608	2.25	3.06	15.4	21.3	0.717
10/11/19	0.654	0.954	3.39	3.55	17.2	25.09	0.929
02/25/20	0.023	0.103	0.323	0.44	2.580	3.45	0.247
06/11/20	0.078	0.248	0.984	1.840	6.380	9.45	0.543
09/18/20	0.032	0.096	0.410	1.400	4.560	6.47	0.696
03/24/21	0.020	0.069	0.255	0.340	2.02	2.68	0.166
06/09/21	0.025	0.125	0.446	0.934	3.35	4.86	0.184
09/07/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
GRP SSTLs:	0.0233	0.00583	1.17	0.816	11.7	-	0.0233
Inhalation SSTLs:	16000	8.42	526	169	175	-	26.4

	Monitoring Point Data Summary Table									
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-16			
INSTALLATION DATE:	07/18/16	WELL DEPTH (FT BTOC):	34.6	SCREEN LENGTH (FT):	10.0	CASING ELEV (FT ABOVE MSL):	672.74	WELL TYPE: DIAMETER (IN):	II 2	
Notes: BTOC (Below To	otes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

	POTENTIOM	ETRIC ELEVATIO	N SUMMARY	
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED
07/21/16	34.55	638.19	-	-
08/08/16	22.98	649.76	-	-
02/01/17	16.50	656.24	-	-
03/23/17	22.26	650.48	-	-
11/20/17	25.39	647.35	-	-
03/01/18	7.81	664.93	-	-
07/25/18	25.81	646.93	-	-
02/25/19	3.91	668.83	-	-
06/26/19	24.12	648.62	-	-
10/11/19	29.69	643.05	-	-
02/25/20	4.64	668.10	-	-
06/11/20	22.98	649.76	-	-
09/18/20	26.79	645.95	-	-
03/24/21	11.59	661.15	=	10.0

INTRIN	ISIC GROUNDW	ATER DATA SUN	ИMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pН	(mV)
07/21/16	3.27	8.9	127
08/08/16	3.34	6.3	55
02/01/17	-	-	-
03/23/17	-	-	-
11/20/17	0.46	7.0	111
03/01/18	2.35	7.6	80
07/25/18	2.01	6.0	100
02/25/19	5.81	5.4	478
06/26/19	-	-	-
10/11/19	-	-	-
02/25/20	2.19	8.3	139
06/11/20	1.70	8.3	110
09/18/20	-	-	-
03/24/21	5.51	7.54	200.2

	Monitoring Point Data Summary Table									
SITE NAME:	А	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-16			
INSTALLATION DATE:	07/18/16	WELL DEPTH (FT BTOC):	34.6	SCREEN LENGTH (FT):	10.0	CASING ELEV (FT ABOVE MSL):	672.74	WELL TYPE: DIAMETER (IN):	II 2	
Notes: BTOC (Below To	otes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

		GROUN	DWATER ANALY	TICAL SUMMAR	RY (mg/L)		
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
07/21/16	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
08/08/16	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
02/01/17				NOT SAMPLED			
03/23/17				NOT SAMPLED			
11/20/17	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
03/01/18	<0.001	<0.001	<0.001	<0.001	< 0.001	BDL	<0.001
07/25/18	0.003	<0.001	<0.001	<0.001	< 0.001	BDL	<0.001
02/25/19	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
06/26/19				NOT SAMPLED			
10/11/19				NOT SAMPLED			
02/25/20	0.001	<0.001	<0.001	<0.001	< 0.003	BDL	<0.005
06/11/20	0.001	<0.001	<0.001	<0.001	<0.003	BDL	<0.005
09/18/20		•		NOT SAMPLED			•
03/24/21	0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
06/09/21		•	•	NOT SAMPLED			•
09/07/21				NOT SAMPLED			
							1
							1
							1
			1	1			
			1	1			
			1	1			
			1	1			
GRP SSTLs:	0.02	0.005	1	0.7	10	-	0.02
Inhalation SSTLs:	0.02	0.005	1	0.7	10	-	0.02

	Monitoring Point Data Summary Table										
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-17				
INSTALLATION DATE:	07/18/16	WELL DEPTH (FT BTOC):	34.9	SCREEN LENGTH (FT):	10.0	CASING ELEV (FT ABOVE MSL):	673.01	WELL TYPE: DIAMETER (IN):	II 2		
Notes: BTOC (Below To	otes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)										

	POTENTIOMI	TRIC ELEVATIO	N SUMMARY	
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED
07/21/16	27.29	645.72	-	-
08/08/16	25.64	647.37	-	-
02/01/17	17.14	655.87	-	-
03/23/17	22.71	650.30	-	-
11/20/17	23.74	649.27	-	-
03/01/18	7.96	665.05	-	-
07/25/18	26.98	646.03	-	-
02/25/19	3.97	669.04	-	-
06/26/19	26.50	646.51	-	-
10/11/19	30.41	642.60	-	-
02/25/20	6.74	666.27	-	-
06/11/20	25.80	647.21	=	-
09/18/20	28.89	644.12	-	-
03/24/21	11.68	661.33	-	10.0
	I .		l .	

INTRIN	ISIC GROUNDW	ATER DATA SUN	ЛMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pН	(mV)
07/21/16	2.81	7.7	226
08/08/16	4.91	7.7	351
02/01/17	-	-	-
03/23/17	-	-	-
11/20/17	1.01	8.4	30
03/01/18	6.85	8.0	-22
07/25/18	4.92	6.3	71
02/25/19	4.29	6.5	347
06/26/19	-	-	-
10/11/19	-	-	-
02/25/20	1.67	7.8	172
06/11/20	-	-	-
09/18/20	-	-	-
03/24/21	7.44	8.64	174.8

	Monitoring Point Data Summary Table									
SITE NAME:	P	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-17			
INSTALLATION DATE:	07/18/16	WELL DEPTH (FT BTOC):	34.9	SCREEN LENGTH (FT):	10.0	CASING ELEV (FT ABOVE MSL):	673.01	WELL TYPE: DIAMETER (IN):	II 2	
Notes: BTOC (Below T	otes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

		GROUN	DWATER ANAL	YTICAL SUMMAR	RY (mg/L)		
SAMPLE DATE	МТВЕ	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
07/21/16	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
08/08/16	<0.001	<0.001	0.005	<0.001	0.004	0.009	<0.001
02/01/17				NOT SAMPLED			
03/23/17				NOT SAMPLED			
11/20/17	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
03/01/18	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
07/25/18	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
02/25/19	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
06/26/19		•		NOT SAMPLED			•
10/11/19				NOT SAMPLED			
02/25/20	<0.001	<0.001	<0.001	<0.001	< 0.003	BDL	<0.005
06/11/20		•	•	NOT SAMPLED	•		*
09/18/20				NOT SAMPLED			
03/24/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
06/09/21		•	•	NOT SAMPLED			•
09/07/21				NOT SAMPLED			
GRP SSTLs:	0.02	0.005	1	0.7	10	-	0.02
Inhalation SSTLs:	0.02	0.005	1	0.7	10	-	0.02

	Monitoring Point Data Summary Table									
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-18			
INSTALLATION DATE:	07/18/16	WELL DEPTH (FT BTOC):	40.5	SCREEN LENGTH (FT):	10.0	CASING ELEV (FT ABOVE MSL):	674.09	WELL TYPE: DIAMETER (IN):	II 2	
Notes: BTOC (Below To	op of Casing); MSL (M	lean Sea Level); BDL (Belov	w Detection Limit)	; CA (Corrective Action)						

	POTENTIOMETRIC ELEVATION SUMMARY							
MEASUREMENT	DEPTH TO WATER	ELEVATION (FT. A.P.O.)	FREE PRODUCT	PCW GALLONS				
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED				
07/21/16	29.11	644.98	-	-				
08/08/16	26.83	647.26	-	-				
02/01/17	20.69	653.40	-	-				
03/23/17	25.64	648.45	-	-				
03/01/18	8.53	665.56	-	-				
10/11/19	31.77	642.32	-	-				
09/18/20	30.58	643.51	-	-				
03/24/21	13.59	660.50	=	11.0				

INTRIN	INTRINSIC GROUNDWATER DATA SUMMARY								
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	рН	REDOX POTENTIAL (mV)						
07/21/16	2.96	8.1	123						
08/08/16	4.22	5.3	822						
02/01/17									
	-	-	-						
03/23/17	4.28	7.7	- 156						
03/01/18									
10/11/19	0.93	5.9	71						
09/18/20	-	-	-						
03/24/21	5.49	6.18	154.9						

Monitoring Point Data Summary Table									
SITE NAME:	Į.	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:		MW-18	
INSTALLATION DATE:	INSTALLATION 07/18/16 WELL DEPTH 40.5 SCREEN 10.0 CASING ELEV 674.09 WELL TYPE: II DATE: (FT BTOC): LENGTH (FT): (FT ABOVE MSL): DIAMETER (IN): 2								
Notes: BTOC (Below T	op of Casing); MSL (N	/lean Sea Level); BDL (Belo	w Detection Limit)	; CA (Corrective Action)					

		GROUNI	DWATER ANALY	TICAL SUMMAR	RY (mg/L)		
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
07/21/16	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
08/08/16	<0.001	<0.001	< 0.001	<0.001	<0.001	BDL	<0.001
02/01/17				NOT SAMPLED			
03/23/17				NOT SAMPLED			
11/20/17				NOT SAMPLED			
03/01/18	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
07/25/18				NOT SAMPLED			
02/25/19				NOT SAMPLED			
06/26/19				NOT SAMPLED			
10/11/19	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
02/25/20				NOT SAMPLED			•
06/11/20				NOT SAMPLED			
09/18/20				NOT SAMPLED			
03/24/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
06/09/21				NOT SAMPLED			•
09/07/21				NOT SAMPLED			
GRP SSTLs:	0.02	0.005	1	0.7	10	-	0.02
Inhalation SSTLs:	0.02	0.005	1	0.7	10	-	0.02

Monitoring Point Data Summary Table									
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:		MW-19	
INSTALLATION DATE:	INSTALLATION 07/15/16 WELL DEPTH 54.8 SCREEN 5.0 CASING ELEV 677.28 WELL TYPE: III DATE: (FT BTOC): LENGTH (FT): (FT ABOVE MSL): DIAMETER (IN): 2								
Notes: BTOC (Below To	op of Casing); MSL (M	lean Sea Level); BDL (Belov	v Detection Limit)	; CA (Corrective Action)					

	POTENTIOMETRIC ELEVATION SUMMARY							
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS				
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED				
07/21/16	26.04	651.24	-	-				
08/08/16	26.64	650.64	-	-				
02/01/17	19.87	657.41	-	-				
03/23/17	25.38	651.90	-	-				
11/20/17	26.68	650.60	-	-				
03/01/18	9.23	668.05	-	-				
07/25/18	26.72	650.56	-	-				
02/25/19	6.27	671.01	-	-				
06/26/19	25.50	651.78	-	-				
10/11/19	29.10	648.18	-	-				
02/25/20	8.41	668.87	-	-				
06/11/20	24.34	652.94	=	=				
09/18/20	28.17	649.11	-	=				
03/24/21	11.85	665.43	=	9.0				
06/09/21	12.62	664.66	-	15.2				
09/07/21	18.94	658.34	-	10.0				

INTRIN	ISIC GROUNDW	ATER DATA SUN	/IMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pН	(mV)
07/21/16	0.52	11.9	-23
08/08/16	6.51	11.3	-61
02/01/17	0.43	8.2	-127
03/23/17	0.29	7.5	-58
11/20/17	0.53	7.1	78
03/01/18	1.00	9.1	-173
07/25/18	0.88	9.4	-210
02/25/19	1.22	9.2	-219
06/26/19	1.92	8.0	-99
10/11/19	1.15	6.5	13
02/25/20	1.82	7.3	-7
06/11/20	1.14	10.4	14
09/18/20	0.19	6.6	92
03/24/21	3.67	11.25	75.8
06/09/21	4.14	6.44	-63.4
09/07/21	0.91	6.86	125.9
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Monitoring Point Data Summary Table									
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-19		
INSTALLATION DATE:	INSTALLATION O7/15/16 WELL DEPTH DATE: SCREEN S.O CASING ELEV 677.28 WELL TYPE: III DATE: (FT BTOC): S4.8 LENGTH (FT): (FT ABOVE MSL): DIAMETER (IN): 2								
Notes: BTOC (Below To	op of Casing); MSL (M	Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)							

		GROUN	DWATER ANAL	YTICAL SUMMAR	RY (mg/L)		
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
07/21/16	0.66	0.458	4.02	1.68	11.20	17.36	0.642
08/08/16	0.629	0.621	3.21	1.46	12.00	17.29	0.527
02/01/17	1.78	1.94	2.48	2.26	4.57	11.25	0.504
03/23/17	1.94	2.78	1.68	2.15	2.97	9.58	0.314
11/20/17	1.17	0.811	0.537	0.478	0.677	2.50	0.157
03/01/18	1.47	3.95	2.68	2.810	6.52	15.96	0.450
07/25/18	1.36	1.56	1.36	1.530	2.93	7.38	0.504
02/25/19	1.57	3.33	1.96	2.780	4.91	12.98	0.735
06/26/19	1.83	2.99	2.21	3.150	4.28	12.63	0.954
10/11/19	1.43	3.84	2.40	3.630	6.07	15.94	0.889
02/25/20	0.81	2.48	2.82	2.720	7.55	15.57	0.272
06/11/20	1.220	2.680	2.820	2.34	6.860	14.70	0.584
09/18/20	0.555	1.460	2.020	1.34	5.350	10.17	0.288
03/24/21	0.753	1.71	1.66	1.60	4.14	9.11	0.464
06/09/21	0.634	1.27	1.23	0.256	2.28	5.04	0.325
09/07/21	0.217	0.182	0.218	0.027	0.692	1.119	0.040
GRP SSTLs:	0.0239 16000	0.00598	1.2 526	0.838 169	12 175	- -	0.0239

Monitoring Point Data Summary Table									
SITE NAME:	А	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:		MW-20	
INSTALLATION DATE:	INSTALLATION 07/15/16 WELL DEPTH 79.9 SCREEN 20.0 CASING ELEV 672.90 WELL TYPE: III DATE: (FT BTOC): LENGTH (FT): (FT ABOVE MSL): DIAMETER (IN): 2								
Notes: BTOC (Below To	op of Casing); MSL (M	lean Sea Level); BDL (Belov	v Detection Limit)	; CA (Corrective Action)					

	POTENTIOMETRIC ELEVATION SUMMARY							
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS				
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED				
07/21/16	36.37	636.53	-	-				
08/08/16	27.94	644.96	-	-				
02/01/17	25.68	647.22	-	-				
03/23/17	26.45	646.45	=	-				
11/20/17	28.56	644.34	ī	-				
03/01/18	13.46	659.44	=	-				
07/25/18	29.01	643.89	=	-				
02/25/19	7.17	665.73	-	-				
06/26/19	28.78	644.12	-	-				
10/11/19	29.76	643.14	-	-				
02/25/20	4.98	667.92	ī	=				
06/11/20	26.96	645.94	-	-				
09/18/20	30.12	642.78	ī	-				
03/24/21	17.35	655.55	=	15.0				
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		_	_					

INTRIN	ISIC GROUNDW	ATER DATA SUN	ИMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pН	(mV)
07/21/16	1.53	8.2	121
08/08/16	5.07	5.9	741
02/01/17	=	-	-
03/23/17	=	-	-
11/20/17	1.32	8.1	36
03/01/18	2.72	8.0	19
07/25/18	3.87	7.1	45
02/25/19	4.10	6.9	383
06/26/19	-	-	-
10/11/19	=	-	-
02/25/20	2.37	7.7	187
06/11/20	=	-	-
09/18/20	=	-	-
03/24/21	6.60	8.26	177.9
		-	

	Monitoring Point Data Summary Table										
SITE NAME:	SITE NAME: A & M Quick Mart UST NUMBER: 10-11-03 WELL ID: MW-20										
INSTALLATION DATE:	07/15/16	WELL DEPTH (FT BTOC):	79.9	SCREEN LENGTH (FT):	20.0	CASING ELEV (FT ABOVE MSL):	672.90	WELL TYPE: DIAMETER (IN):	III 2		
Notes: BTOC (Below T	op of Casing); MSL (M	1ean Sea Level); BDL (Belov	v Detection Limit)	; CA (Corrective Action)							

		GROUN	DWATER ANALY	TICAL SUMMAR	Y (mg/L)		
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
07/21/16	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
08/08/16	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
02/01/17				NOT SAMPLED			
03/23/17				NOT SAMPLED			
11/20/17	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
03/01/18	0.011	<0.001	<0.001	<0.001	< 0.001	BDL	<0.001
07/25/18	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
02/25/19	0.004	<0.001	<0.001	<0.001	< 0.001	BDL	<0.001
06/26/19				NOT SAMPLED	•		
10/11/19				NOT SAMPLED			
02/25/20	<0.001	<0.001	<0.001	<0.001	< 0.003	BDL	<0.005
06/11/20				NOT SAMPLED	•		*
09/18/20				NOT SAMPLED			
03/24/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
06/09/21			•	NOT SAMPLED			•
09/07/21				NOT SAMPLED			
GRP SSTLs:	0.02	0.005	1	0.7	10	-	0.02
Inhalation SSTLs:	0.02	0.005	1	0.7	10	-	0.02

	Monitoring Point Data Summary Table										
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-21				
INSTALLATION DATE:	07/15/16	WELL DEPTH (FT BTOC):	79.5	SCREEN LENGTH (FT):	20.0	CASING ELEV (FT ABOVE MSL):	673.20	WELL TYPE: DIAMETER (IN):	III 2		
Notes: BTOC (Below To	p of Casing); MSL (M	lean Sea Level); BDL (Belov	v Detection Limit)	; CA (Corrective Action)							

	POTENTIOM	ETRIC ELEVATIO	N SUMMARY	
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED
07/21/16	40.10	633.10	-	-
08/08/16	27.64	645.56	-	-
02/01/17	20.39	652.81	-	-
03/23/17	22.17	651.03	-	-
11/20/17	25.89	647.31	-	-
03/01/18	13.41	659.79	-	-
07/25/18	25.56	647.64	-	-
02/25/19	12.23	660.97	-	-
06/26/19	25.92	647.28	-	-
10/11/19	31.00	642.20	-	-
02/25/20	7.27	665.93	-	-
06/11/20	24.86	648.34	-	-
09/18/20	27.96	645.24	=	-
03/24/21	15.59	657.61	-	15.0
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INTRIN	ISIC GROUNDW	ATER DATA SUN	ИMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pН	(mV)
07/21/16	2.72	8.4	137
08/08/16	2.34	3.4	274
02/01/17	0.12	10.2	-154
03/23/17	1.19	11.4	-236
11/20/17	0.88	10.1	-36
03/01/18	0.99	9.1	-62
07/25/18	1.74	12.0	-146
02/25/19	1.39	11.9	-133
06/26/19	1.88	11.3	-262
10/11/19	0.72	6.1	-81
02/25/20	1.93	7.5	186
06/11/20	-	-	-
09/18/20	-	-	-
03/24/21	4.02	9.83	115.4

	Monitoring Point Data Summary Table										
SITE NAME:	P	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-21				
INSTALLATION DATE:	07/15/16	WELL DEPTH (FT BTOC):	79.5	SCREEN LENGTH (FT):	20.0	CASING ELEV (FT ABOVE MSL):	673.20	WELL TYPE: DIAMETER (IN):	III 2		
Notes: BTOC (Below T	Top of Casing); MSL (M	lean Sea Level); BDL (Belov	w Detection Limit)	; CA (Corrective Action)							

		GROUN	DWATER ANAL	YTICAL SUMMAR	Y (mg/L)		
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
07/21/16	0.007	0.005	0.007	0.002	0.009	0.023	0.002
08/08/16	0.007	0.008	0.005	0.005	0.014	0.032	0.005
02/01/17	0.011	0.006	0.007	<0.005	0.008	0.021	0.006
03/23/17	0.003	0.002	<0.001	<0.001	< 0.001	0.002	<0.001
11/20/17	0.011	0.009	0.004	0.001	0.007	0.021	<0.001
03/01/18	0.009	0.010	0.002	0.001	0.006	0.019	<0.001
07/25/18	0.008	0.006	0.003	<0.001	0.004	0.013	<0.001
02/25/19	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
06/26/19	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
10/11/19	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
02/25/20	0.007	<0.001	<0.001	<0.001	<0.003	BDL	<0.005
06/11/20			•	NOT SAMPLED			
09/18/20				NOT SAMPLED			
03/24/21	0.008	<0.001	<0.002	<0.001	< 0.001	BDL	<0.005
06/09/21			.1	NOT SAMPLED			
09/07/21				NOT SAMPLED			
GRP SSTLs:	0.02	0.005	1	0.7	10		0.02
Inhalation SSTLs:	0.02	0.005	1	0.7	10	-	0.02

	Monitoring Point Data Summary Table										
SITE NAME:	А	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:	MW-22				
INSTALLATION DATE:	07/15/16	WELL DEPTH (FT BTOC):	81.0	SCREEN LENGTH (FT):	20.0	CASING ELEV (FT ABOVE MSL):	673.81	WELL TYPE: DIAMETER (IN):	III 2		
Notes: BTOC (Below To	op of Casing); MSL (M	lean Sea Level); BDL (Belov	v Detection Limit)	; CA (Corrective Action)							

	POTENTIOM	TRIC ELEVATIO	N SUMMARY	
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED
07/21/16	25.96	647.85	-	-
08/08/16	27.17	646.64	=	=
02/01/17	23.21	650.60	ī	-
03/23/17	25.76	648.05	-	-
11/20/17	27.35	646.46	-	-
03/01/18	7.17	666.64	-	-
10/11/19	31.32	642.49	-	-
06/11/20	26.62	647.19	-	-
09/18/20	30.02	643.79	=	-
03/24/21	12.71	661.10	-	15.0

INTRIN	ISIC GROUNDW	ATER DATA SUN	//MARY	
	DISSOLVED		REDOX POTENTIAL	
SAMPLE DATE	OXYGEN (mg/L)	pH	(mV)	
07/21/16	2.92	8.1	129	
08/08/16	4.27	4.2	343	
02/01/17	-	-	-	
03/23/17	-	-	-	
11/20/17	0.64	10.2	2	
03/01/18	6.29	8.6	35	
10/11/19	1.05	6.2	-23	
06/11/20	-	-	-	
09/18/20	-	-	-	
03/24/21	5.56	6.16	163.0	
	l			

	Monitoring Point Data Summary Table										
SITE NAME: A & M Quick Mart UST NUMBER: 10-11-03 WELL ID: MW-22											
	INSTALLATION 07/15/16 WELL DEPTH 81.0 SCREEN 20.0 CASING ELEV 673.81 WELL TYPE: LENGTH (FT): (FT ABOVE MSL): DIAMETER (IN):								III 2		
Notes: BTOC (Below	Top of Casing); MSL (N	1ean Sea Level); BDL (Belov	w Detection Limit)	; CA (Corrective Action)							

		GROUN	DWATER ANALY	TICAL SUMMAR	Y (mg/L)					
SAMPLE DATE	МТВЕ	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE			
07/21/16	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
08/08/16	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
02/01/17				NOT SAMPLED						
03/23/17				NOT SAMPLED						
11/20/17	0.003	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
03/01/18	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
07/25/18		NOT SAMPLED								
02/25/19				NOT SAMPLED						
06/26/19				NOT SAMPLED						
10/11/19	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
02/25/20		l.	JI.	NOT SAMPLED			W.			
06/11/20				NOT SAMPLED						
09/18/20				NOT SAMPLED						
03/24/21	0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005			
06/09/21				NOT SAMPLED			1			
09/07/21				NOT SAMPLED						
,.,				1						
GRP SSTLs:	0.02	0.005	1	0.7	10	-	0.02			
Inhalation SSTLs:	0.02	0.005	1	0.7	10	-	0.02			

Monitoring Point Data Summary Table									
SITE NAME:	Д	A & M Quick Mart			10-11-03	WELL ID:		DPVE-1	
INSTALLATION DATE:	07/15/16	WELL DEPTH (FT BTOC):	50.0	SCREEN LENGTH (FT):	33.0	CASING ELEV (FT ABOVE MSL):	676.70	WELL TYPE: DIAMETER (IN):	II 4
Notes: BTOC (Below To	pp of Casing); MSL (M	1ean Sea Level); BDL (Belov	v Detection Limit)	; CA (Corrective Action)					

	POTENTIOM	TRIC ELEVATIO	N SUMMARY	
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED
07/21/16	26.07	650.63	-	-
08/08/16	26.75	649.95	-	-
02/01/17	18.96	657.74	-	-
03/23/17	25.66	651.04	-	-
11/20/17	26.85	649.85	-	-
03/01/18	10.13	666.57	-	-
07/25/18	28.06	648.64	-	-
02/25/19	7.46	669.24	=	-
06/26/19	27.43	649.27	=	-
10/11/19	32.12	644.58	-	-
02/25/20	7.86	668.84	-	-
06/11/20	25.73	650.97	-	-
09/18/20	31.38	645.32	-	-
03/24/21	12.12	664.58	-	14.0
06/09/21	21.11	655.59	-	14.5
09/07/21	19.91	656.79	=	20.0
1	1			ı

INTRIN	ISIC GROUNDW	ATER DATA SUN	ИMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pН	(mV)
07/21/16	0.76	6.7	93
08/08/16	0.22	6.6	68
02/01/17	0.32	6.7	-45
03/23/17	0.96	7.7	-25
11/20/17	1.23	6.6	-6
03/01/18	1.95	7.7	18
07/25/18	0.90	6.6	-63
02/25/19	4.38	5.9	129
06/26/19	2.03	7.0	-71
10/11/19	0.82	5.8	-51
02/25/20	1.94	7.4	17
06/11/20	0.51	10.1	-29
09/18/20	0.33	6.7	116
03/24/21	4.77	6.84	53.4
06/09/21	0.83	6.15	-43.8
09/07/21	1.19	6.34	0.5

	Monitoring Point Data Summary Table											
SITE NAME:	Į.	A & M Quick Mart			10-11-03	WELL ID:		DPVE-1				
INSTALLATION DATE:	07/15/16	WELL DEPTH (FT BTOC):	50.0	SCREEN LENGTH (FT):	33.0	CASING ELEV (FT ABOVE MSL):	676.70	WELL TYPE: DIAMETER (IN):	II 4			
Notes: BTOC (Below T	op of Casing); MSL (N	lean Sea Level); BDL (Belov	Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)									

		GROUN	DWATER ANAL	YTICAL SUMMAF	RY (mg/L)		
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
07/21/16	1.04	1.19	2.3	3.27	14.90	21.66	3.210
08/08/16	1.44	6.07	4.98	32.0	142.0	185.1	47.300
02/01/17	1.32	1.76	2.64	2.62	7.44	14.46	1.890
03/23/17	0.146	0.444	0.397	1.21	1.08	3.13	0.457
11/20/17	0.357	0.652	0.226	1.60	2.63	5.11	0.883
03/01/18	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	< 0.001
07/25/18	0.658	0.799	0.266	2.05	4.11	7.23	0.668
02/25/19	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	< 0.001
06/26/19	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
10/11/19	0.615	0.708	0.311	0.198	4.42	5.64	0.924
02/25/20	<0.001	<0.001	<0.001	<0.001	<0.003	BDL	<0.005
06/11/20	0.272	0.346	0.085	0.980	1.590	3.001	0.244
09/18/20	0.504	0.391	0.123	1.270	2.240	4.024	0.722
03/24/21	0.001	0.003	0.008	0.002	0.026	0.039	<0.005
06/09/21	0.071	0.121	0.078	0.199	0.329	0.727	0.074
09/07/21	0.009	0.017	0.005	0.023	0.011	0.056	0.012
GRP SSTLs:	0.0239	0.00598	1.2	0.838	12	-	0.0239
Inhalation SSTLs:	16000	8.42	526	169	175	-	26.4

	Monitoring Point Data Summary Table									
SITE NAME:	A & M Quick Mart			UST NUMBER:	10-11-03	WELL ID:		OLD MW-1		
INSTALLATION DATE:	Unknown	WELL DEPTH (FT BTOC):	Unknown	SCREEN LENGTH (FT):	Unknown	CASING ELEV (FT ABOVE MSL):	673.07	WELL TYPE: DIAMETER (IN):	II 2	
Notes: BTOC (Below To	pp of Casing); MSL (M	lean Sea Level); BDL (Belo	ow Detection Limit)	; CA (Corrective Action)						

	POTENTIOMETRIC ELEVATION SUMMARY									
MEASUREMENT	DEPTH TO WATER	ELEVATION (FT. A.R.C.)	FREE PRODUCT	PCW GALLONS						
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED						
07/21/16	21.88	651.19	-	-						
08/08/16	21.63	651.44	-	-						
02/01/17	21.96	651.11	-	-						
03/23/17	20.67	652.40	=	=						
11/20/17	22.54	650.53	=	=						
03/01/18	7.33	665.74	-	-						
07/25/18	23.97	649.10	-	-						
02/25/19	3.92	669.15	-	-						
06/26/19	21.92	651.15	-	-						
10/11/19	26.51	646.56	-	-						
02/25/20	4.25	668.82	-	-						
06/11/20	20.83	652.24	-	-						
09/18/20	27.16	645.91	=	-						
03/24/21	9.13	663.94	-	12.0						
<b> </b>										

INTRIN	ISIC GROUNDW	ATER DATA SUN	ИMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pН	(mV)
07/21/16	1.13	6.4	60
08/08/16	4.53	4.6	48
02/01/17	=	ī	-
03/23/17	=	-	-
11/20/17	0.56	7.8	47
03/01/18	4.32	7.7	116
07/25/18	2.04	7.4	67
02/25/19	4.06	5.8	352
06/26/19	=	-	-
10/11/19	-	-	-
02/25/20	1.36	7.8	182
06/11/20	-	-	-
09/18/20	0.08	6.9	65
03/24/21	7.67	6.96	210.4

Monitoring Point Data Summary Table									
SITE NAME:	A & M Quick Mart			UST NUMBER:	10-11-03	WELL ID:		OLD MW-1	
INSTALLATION DATE:	Unknown	WELL DEPTH (FT BTOC):	Unknown	SCREEN LENGTH (FT):	Unknown	CASING ELEV (FT ABOVE MSL):	673.07	WELL TYPE: DIAMETER (IN):	II 2
Notes: BTOC (Below To	op of Casing); MSL (M	lean Sea Level); BDL (Beld	ow Detection Limit)	; CA (Corrective Action)					

		GROUN	DWATER ANALY	TICAL SUMMAR	RY (mg/L)		
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
07/21/16	0.006	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
08/08/16	0.004	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
02/01/17				NOT SAMPLED			
03/23/17				NOT SAMPLED			
11/20/17	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
03/01/18	<0.001	<0.001	<0.001	<0.001	< 0.001	BDL	<0.001
07/25/18	0.001	< 0.001	<0.001	<0.001	< 0.001	BDL	<0.001
02/25/19	<0.001	< 0.001	<0.001	<0.001	< 0.001	BDL	<0.001
06/26/19				NOT SAMPLED			
10/11/19				NOT SAMPLED			
02/25/20	<0.001	<0.001	<0.001	<0.001	< 0.003	BDL	<0.005
06/11/20		•		NOT SAMPLED	•		*
09/18/20	<0.001	<0.001	<0.001	<0.001	< 0.003	BDL	<0.005
03/24/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
06/09/21			•	NOT SAMPLED			•
09/07/21				NOT SAMPLED			
							1
GRP SSTLs:	0.02	0.005	1	0.7	10	-	0.02
Inhalation SSTLs:	0.02	0.005	1	0.7	10	-	0.02

	Monitoring Point Data Summary Table									
SITE NAME:	A & M Quick Mart			UST NUMBER:	10-11-03	WELL ID:	OLD MW-2			
INSTALLATION DATE:	Unknown	WELL DEPTH (FT BTOC):	Unknown	SCREEN LENGTH (FT):	Unknown	CASING ELEV (FT ABOVE MSL):		II 2		
Notes: BTOC (Below To	pp of Casing); MSL (M	lean Sea Level); BDL (Belo	ow 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						
11/20/17	26.77	-26.77	I ITICKINESS (FI)	KEIVIOVED						
	-		-	-						
03/01/18 07/25/18	10.17 27.56	-10.17 -27.56		-						
			-	-						
02/25/19	5.42	-5.42	-	-						
02/25/20	5.94	-5.94	-	-						
06/11/20	27.11	-27.11	-	-						
09/18/20	28.52	-28.52	-	-						

INTRIN	ISIC GROUNDW	ATER DATA SUN	MARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	рН	(mV)
11/20/17	0.43	8.7	32
03/01/18	8.14	7.6	71
07/25/18	5.31	6.3	109
02/25/19	7.16	6.2	283
02/25/20	1.28	7.7	190
06/11/20	-	=	-
09/18/20	=	ı	=

	Monitoring Point Data Summary Table									
SITE NAME:	A & M Quick Mart			UST NUMBER:	10-11-03	WELL ID:	OLD MW-2			
INSTALLATION DATE:	Unknown	WELL DEPTH (FT BTOC):	Unknown	SCREEN LENGTH (FT):	Unknown	CASING ELEV (FT ABOVE MSL):		II 2		
Notes: BTOC (Below To	op of Casing); MSL (M	1ean Sea Level); BDL (Belo	w Detection Limit)	; CA (Corrective Action)						

		GROUN	DWATER ANAL	YTICAL SUMMAR	RY (mg/L)		
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
07/21/16				NOT SAMPLED			_
08/08/16				NOT SAMPLED			
02/01/17				NOT SAMPLED			
03/23/17				NOT SAMPLED			
11/20/17	<0.001	<0.001	< 0.001	<0.001	<0.001	BDL	<0.001
03/01/18	<0.001	<0.001	< 0.001	<0.001	<0.001	BDL	<0.001
07/25/18	0.0020	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
02/25/19	<0.001	<0.001	< 0.001	<0.001	< 0.001	BDL	<0.001
06/26/19				NOT SAMPLED			
10/11/19				NOT SAMPLED			
02/25/20	<0.001	<0.001	<0.001	<0.001	<0.003	BDL	<0.005
06/11/20		•	•	NOT SAMPLED	•		
09/18/20				NOT SAMPLED			
03/24/21				NOT SAMPLED			
06/09/21				NOT SAMPLED			
09/07/21				NOT SAMPLED			
GRP SSTLs:	0.02	0.005	1	0.7	10	-	0.02
Inhalation SSTLs:	0.02	0.005	1	0.7	10	-	0.02

	Monitoring Point Data Summary Table									
SITE NAME:	A & M Quick Mart			UST NUMBER:	10-11-03	WELL ID:		OLD MW-3		
INSTALLATION DATE:	Unknown	WELL DEPTH (FT BTOC):	Unknown	SCREEN LENGTH (FT):	Unknown	CASING ELEV (FT ABOVE MSL):	670.69	WELL TYPE: DIAMETER (IN):	II 2	
Notes: BTOC (Below To	op of Casing); MSL (M	lean Sea Level); BDL (Belo	w Detection Limit)	; CA (Corrective Action)						

	POTENTIOM	ETRIC ELEVATIO	N SUMMARY	
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED
07/21/16	42.04	628.65	-	-
08/08/16	28.32	642.37	-	-
02/01/17	27.27	643.42	-	-
03/23/17	27.36	643.33	-	-
11/20/17	28.02	642.67	-	-
03/01/18	10.54	660.15	-	-
07/25/18	29.06	641.63	-	-
02/25/19	2.58	668.11	=	=
06/26/19	29.38	641.31	-	-
02/25/20	6.53	664.16	=	=
06/11/20	29.06	641.63	-	-
09/18/20	32.41	638.28	-	-
03/24/21	19.05	651.64	-	10.0
06/09/21	18.55	652.14	-	11.5
09/07/21	17.89	652.80	-	10.0

INTRIN	ISIC GROUNDW	ATER DATA SUN	ИMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pН	(mV)
07/21/16	5.90	8.5	169
08/08/16	3.91	4.2	324
02/01/17	=	ī	-
03/23/17	=	-	-
11/20/17	0.84	5.8	189
03/01/18	3.63	7.4	246
07/25/18	2.17	5.7	144
02/25/19	4.81	5.6	283
06/26/19	-	-	-
02/25/20	1.54	7.3	204
06/11/20	=	-	-
09/18/20	-	-	-
03/24/21	8.54	6.52	137.4
06/09/21	2.01	6.11	-10.1
09/07/21	1.11	6.15	127.1

	Monitoring Point Data Summary Table									
SITE NAME:	A	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:		OLD MW-3		
INSTALLATION DATE:	Unknown	WELL DEPTH (FT BTOC):	Unknown	SCREEN LENGTH (FT):	Unknown	CASING ELEV (FT ABOVE MSL):	670.69	WELL TYPE: DIAMETER (IN):	II 2	
Notes: BTOC (Below T	op of Casing); MSL (M	1ean Sea Level); BDL (Belo	w Detection Limit)	; CA (Corrective Action)						

		GROUN	DWATER ANAL	YTICAL SUMMAR	RY (mg/L)		
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
07/21/16	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
08/08/16	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001
02/01/17				NOT SAMPLED			
03/23/17				NOT SAMPLED			
11/20/17	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	< 0.001
03/01/18	<0.001	<0.001	<0.001	<0.001	< 0.001	BDL	< 0.001
07/25/18	<0.001	< 0.001	<0.001	<0.001	< 0.001	BDL	< 0.001
02/25/19	<0.001	< 0.001	<0.001	<0.001	< 0.001	BDL	< 0.001
06/26/19				NOT SAMPLED			•
10/11/19				NOT SAMPLED			
02/25/20	<0.001	<0.001	<0.001	<0.001	<0.003	BDL	<0.005
06/11/20		•	•	NOT SAMPLED	•		*
09/18/20				NOT SAMPLED			
03/24/21	<0.001	<0.001	<0.002	<0.001	< 0.001	BDL	<0.005
06/09/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
09/07/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
GRP SSTLs:	0.02	0.005	1	0.7	10	_	0.02
Inhalation SSTLs:	0.02	0.005	1	0.7	10		0.02

	Monitoring Point Data Summary Table									
SITE NAME:	A & M Quick Mart			UST NUMBER:	10-11-03	WELL ID:		OLD MW-4		
INSTALLATION DATE:	Unknown	WELL DEPTH (FT BTOC):	Unknown	SCREEN LENGTH (FT):	Unknown	CASING ELEV (FT ABOVE MSL):	670.75	WELL TYPE: DIAMETER (IN):	II 2	
Notes: BTOC (Below To	p of Casing); MSL (M	lean Sea Level); BDL (Belo	ow Detection Limit)	; CA (Corrective Action)						

	POTENTIOMI	ETRIC ELEVATIO	N SUMMARY	
MEASUREMENT	DEPTH TO WATER	ELEVATION	FREE PRODUCT	PCW GALLONS
DATE	(FT BTOC)	(FT ABOVE MSL)	THICKNESS (FT)	REMOVED
07/21/16	21.42	649.33	-	-
08/08/16	23.24	647.51	-	-
02/01/17	19.44	651.31	=	-
03/23/17	22.00	648.75	=	-
11/20/17	24.03	646.72	=	-
03/01/18	7.90	662.85	=	-
07/25/18	25.23	645.52	ı	=
02/25/19	4.17	666.58	=	-
06/26/19	23.58	647.17	-	-
10/11/19	28.03	642.72	-	-
02/25/20	4.72	666.03	-	-
06/11/20	22.93	647.82	•	-
09/18/20	26.58	644.17	ı	=
03/24/21	14.83	655.92	•	12.0
06/09/21	12.22	658.53	ı	14.6
09/07/21	12.15	658.60	=	10.0
				_
				_
	•			

INTRIN	ISIC GROUNDW	ATER DATA SUN	/IMARY
	DISSOLVED		REDOX POTENTIAL
SAMPLE DATE	OXYGEN (mg/L)	pН	(mV)
07/21/16	2.93	6.1	223
08/08/16	4.38	2.0	311
02/01/17	-	-	-
03/23/17	-	-	-
11/20/17	1.21	6.0	211
03/01/18	2.87	7.4	230
07/25/18	2.28	5.1	189
02/25/19	3.56	5.0	423
06/26/19	-	-	-
10/11/19	-	-	-
02/25/20	1.19	6.9	226
06/11/20	=	ı	-
09/18/20	-	=	-
03/24/21	7.91	6.01	172.2
06/09/21	1.84	7.03	-36.4
09/07/21	1.17	6.23	104.2
<del>                                     </del>			

	Monitoring Point Data Summary Table									
SITE NAME:	Д	& M Quick Mart		UST NUMBER:	10-11-03	WELL ID:		OLD MW-4		
INSTALLATION DATE:	Unknown	WELL DEPTH (FT BTOC):	Unknown	SCREEN LENGTH (FT):	Unknown	CASING ELEV (FT ABOVE MSL):	670.75	WELL TYPE: DIAMETER (IN):	  2	
Notes: BTOC (Below To	op of Casing); MSL (N	1ean Sea Level); BDL (Belo	ow Detection Limit);	; CA (Corrective Action)	1					

	GROUNDWATER ANALYTICAL SUMMARY (mg/L)									
SAMPLE DATE	MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE			
07/21/16	0.002	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
08/08/16	0.003	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
02/01/17				0.0010						
03/23/17				NOT SAMPLED						
11/20/17	0.001	<0.001	<0.001	<0.001	< 0.001	BDL	<0.001			
03/01/18	<0.001	<0.001	<0.001	<0.001	< 0.001	BDL	<0.001			
07/25/18	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
02/25/19	<0.001	<0.001	<0.001	<0.001	<0.001	BDL	<0.001			
06/26/19				NOT SAMPLED						
10/11/19				NOT SAMPLED						
02/25/20	0.001	<0.001	<0.001	<0.001	<0.003	BDL	<0.005			
06/11/20			•	NOT SAMPLED			•			
09/18/20				NOT SAMPLED						
03/24/21	0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005			
06/09/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005			
09/07/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005			
							+			
							+			
							1			
GRP SSTLs:	0.02	0.005	1	0.7	10	<u> </u>	0.02			
Inhalation SSTLs:	0.02	0.005	1	0.7	10	-	0.02			

Monitoring Point Data Summary Table									
SITE NAME:	A & M Quick Mart			UST NUMBER:	10-11-03	WELL ID:	OLD DW-1		
INSTALLATION DATE:	Unknown	Unknown WELL DEPTH Unknown (FT BTOC):		SCREEN LENGTH (FT):	Unknown	CASING ELEV (FT ABOVE MSL):	Unknown	WELL TYPE: DIAMETER (IN):	  2
Notes: BTOC (Below To	otes: 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				
08/08/16	39.51	- (I I ADOVE IVISE)		-				

INTRIN	INTRINSIC GROUNDWATER DATA SUMMARY									
SAMPLE DATE	DISSOLVED OXYGEN (mg/L)	рН	REDOX POTENTIAL (mV)							
08/08/16	-	-	-							

Monitoring Point Data Summary Table									
SITE NAME:	A & M Quick Mart			UST NUMBER:	10-11-03	WELL ID:	OLD DW-1		
INSTALLATION DATE:	Unknown WELL DEPTH Unknown (FT BTOC):		SCREEN LENGTH (FT):	Unknown	CASING ELEV (FT ABOVE MSL):	Unknown	WELL TYPE: DIAMETER (IN):	  2	
Notes: BTOC (Below To	lotes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)								

	GROUNDWATER ANALYTICAL SUMMARY (mg/L)									
SAMPLE DATE	МТВЕ	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE			
07/21/16		•	•	NOT SAMPLED			•			
08/08/16				NOT SAMPLED						
02/01/17				NOT SAMPLED						
03/23/17				NOT SAMPLED						
11/20/17				NOT SAMPLED						
03/01/18				NOT SAMPLED						
07/25/18				NOT SAMPLED						
02/25/19				NOT SAMPLED						
06/26/19				NOT SAMPLED						
10/11/19				NOT SAMPLED						
02/25/20				NOT SAMPLED						
06/11/20				NOT SAMPLED						
09/18/20				NOT SAMPLED						
03/24/21				NOT SAMPLED						
06/09/21				NOT SAMPLED						
09/07/21				NOT SAMPLED						
			_							
GRP SSTLs:	0.02	0.005	1	0.7	10	-	0.02			
Inhalation SSTLs:	0.02	0.005	1	0.7	10	-	0.02			

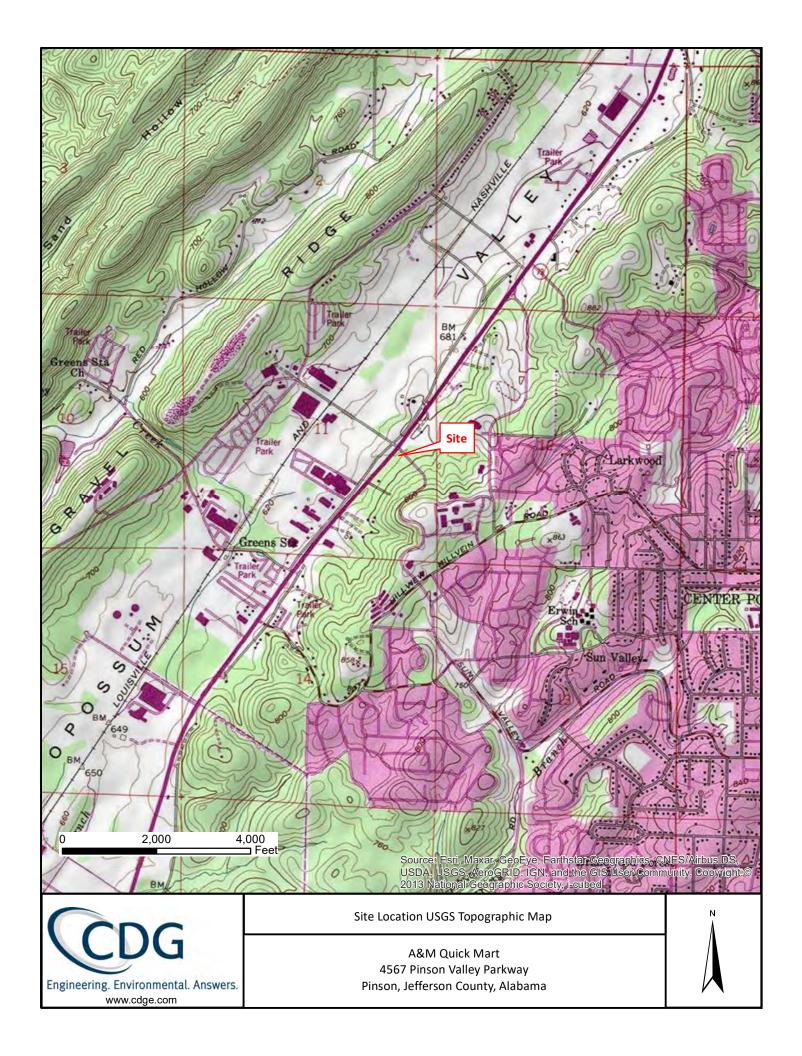
Monitoring Point Data Summary Table						
SITE NAME:	A & M Quick Mart	UST NUMBER:	10-11-03	WELL ID:	Carbon Effluent	
INSTALLATION	WELL DEPTH	SCREEN		CASING ELEV	WELL TYPE: -	
DATE:	DATE: (FT BTOC): LENGTH (FT): (FT ABOVE MSL): DIAMETER (IN):					
Notes: BTOC (Below To	Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level); BDL (Below Detection Limit); CA (Corrective Action)					

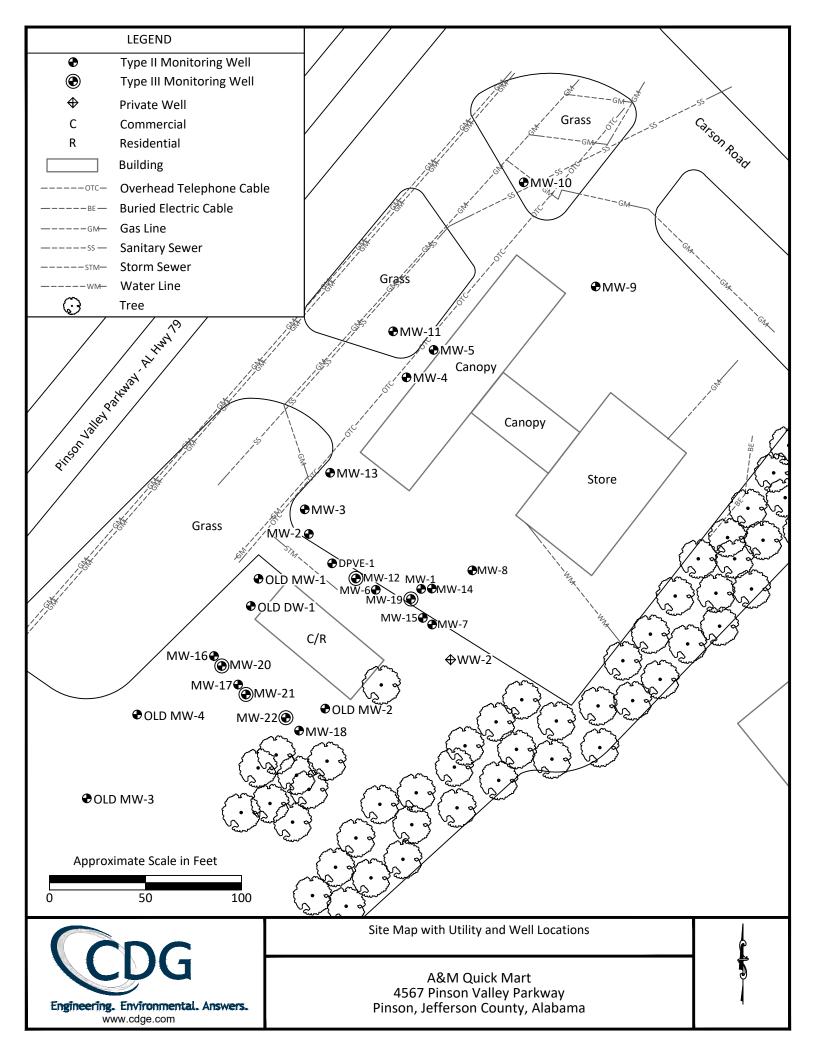
		GROUNI	DWATER ANAL	TICAL SUMMAR	RY (mg/L)		
SAMPLE DATE	МТВЕ	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	NAPHTHALENE
03/24/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
06/09/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005
09/07/21	<0.001	<0.001	<0.002	<0.001	<0.001	BDL	<0.005

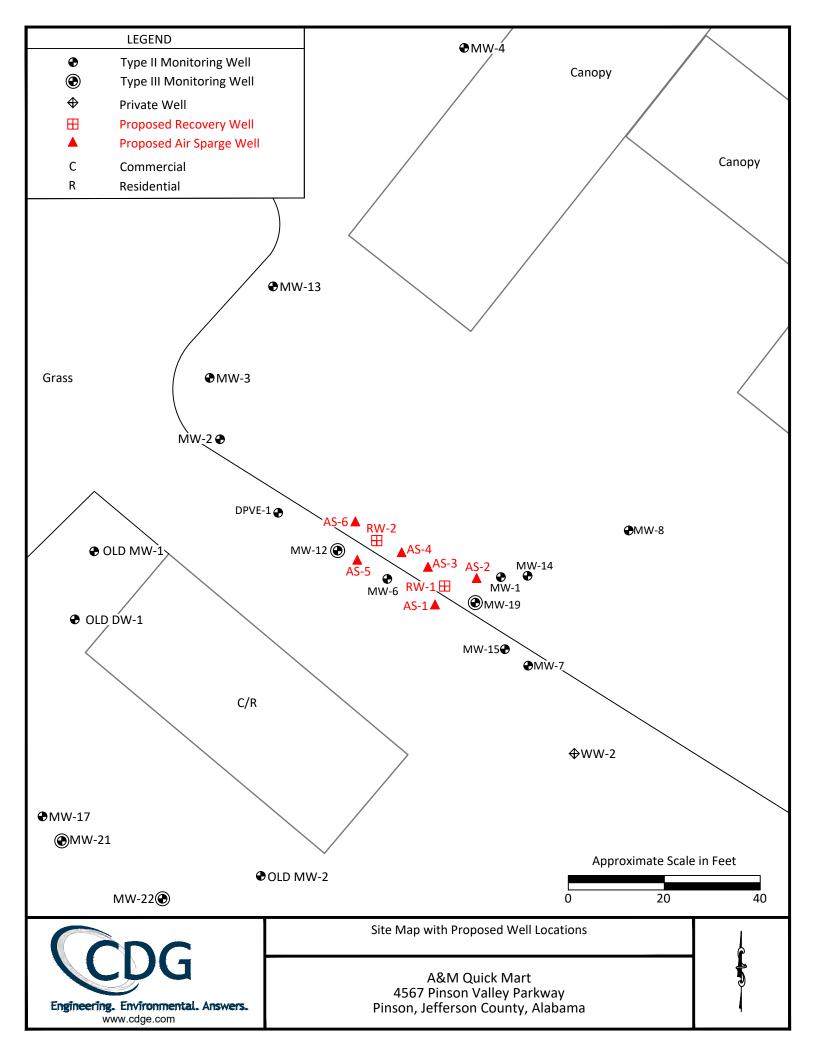


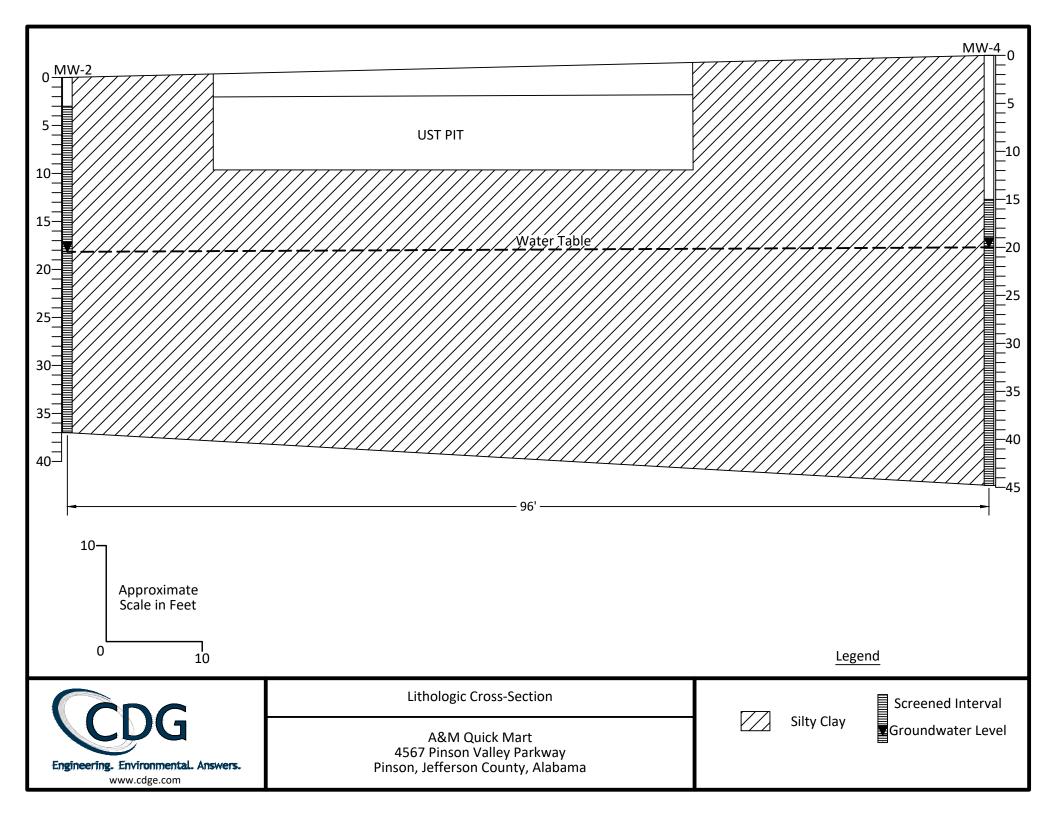
## **FIGURES**

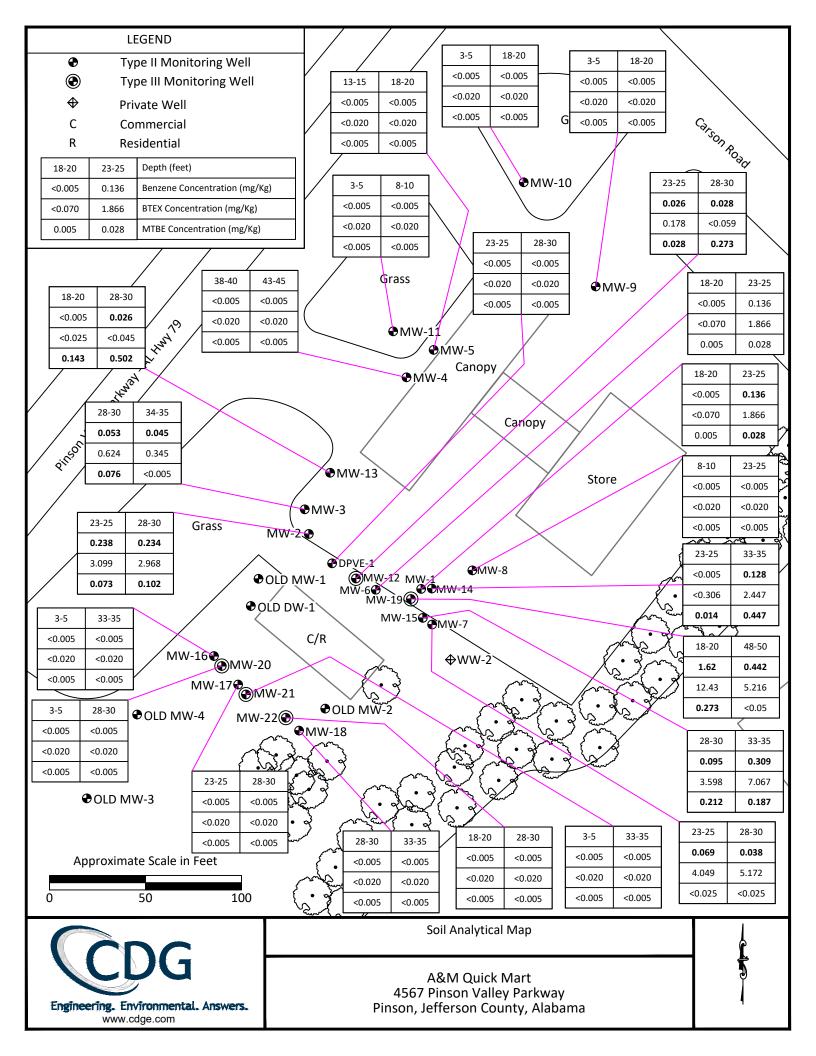
APPENDIX B

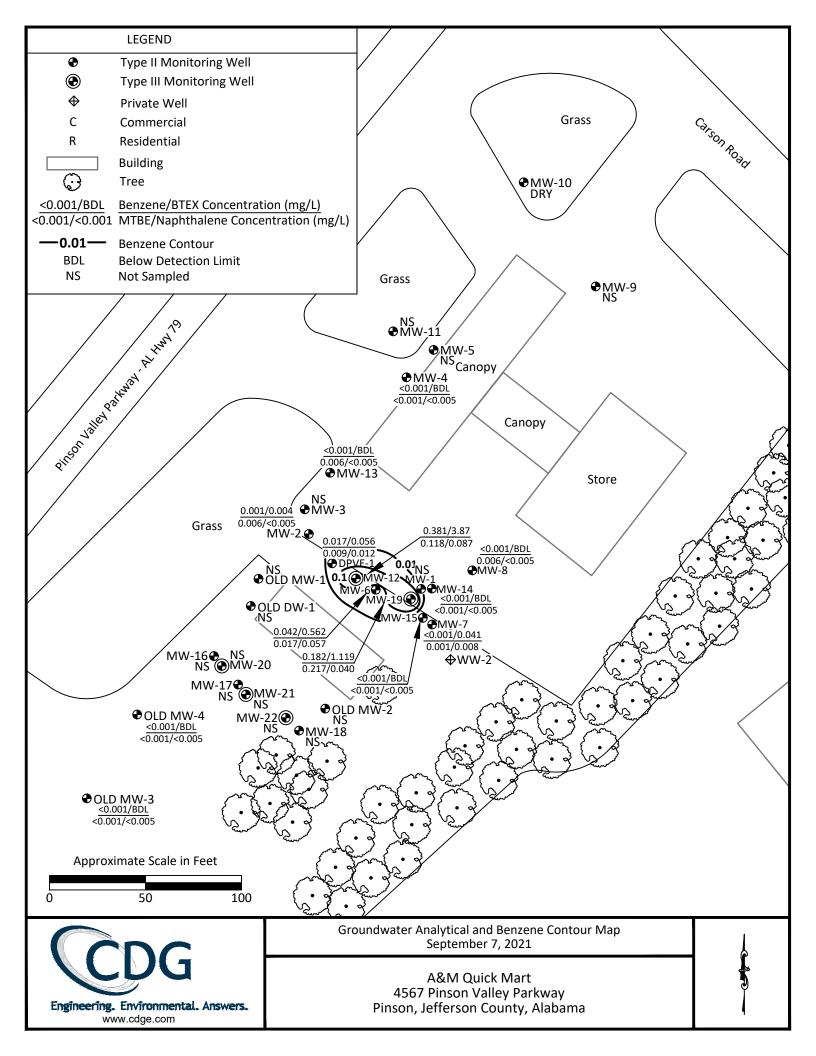


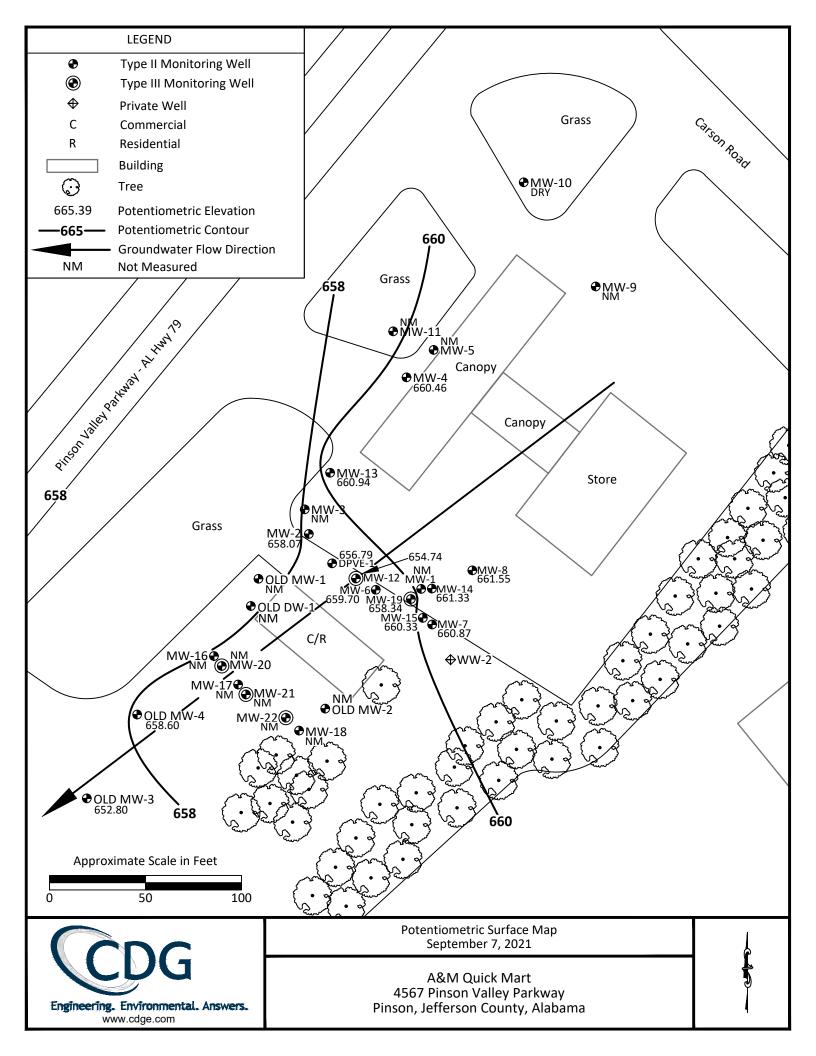


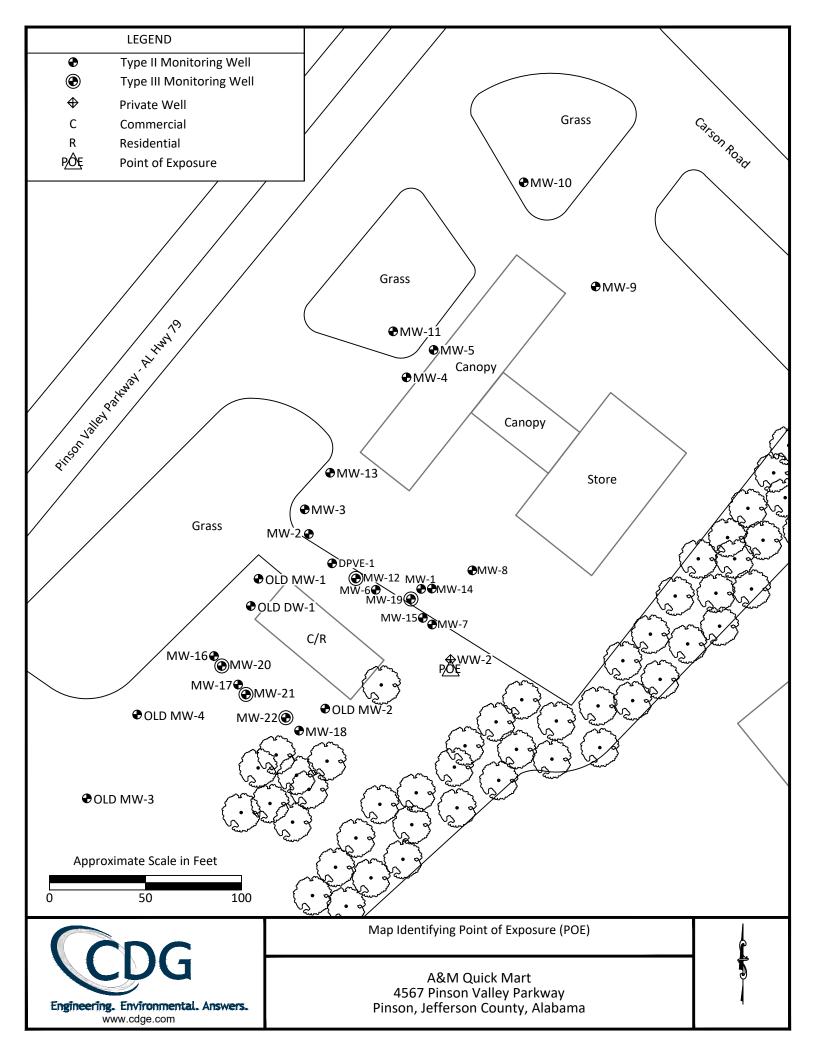


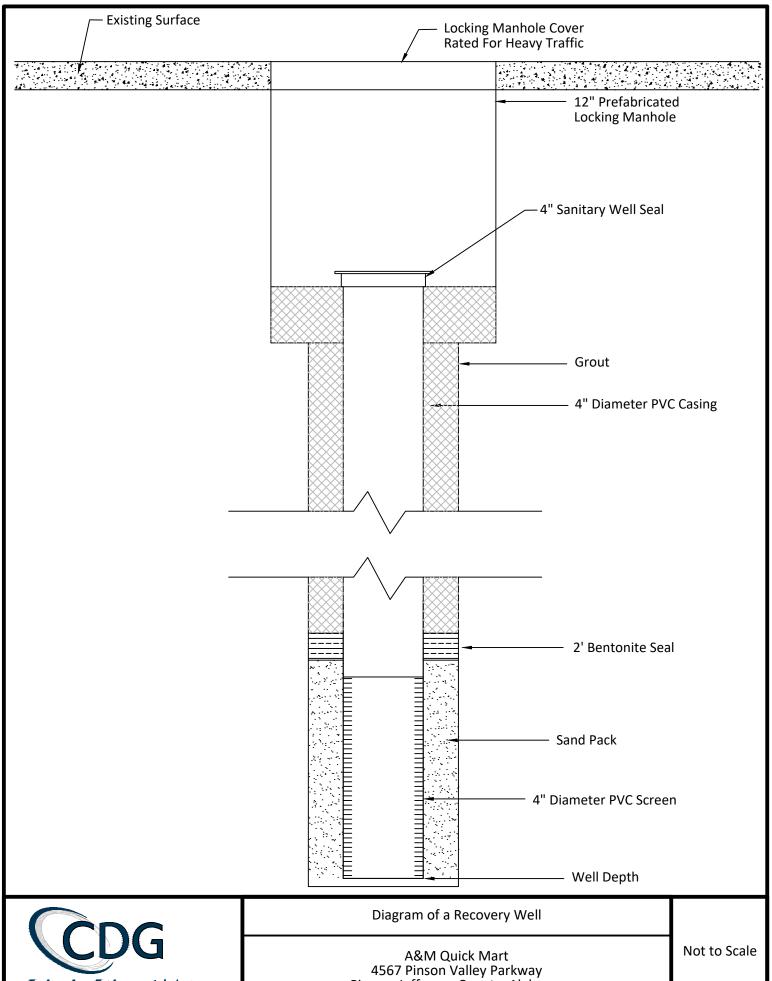






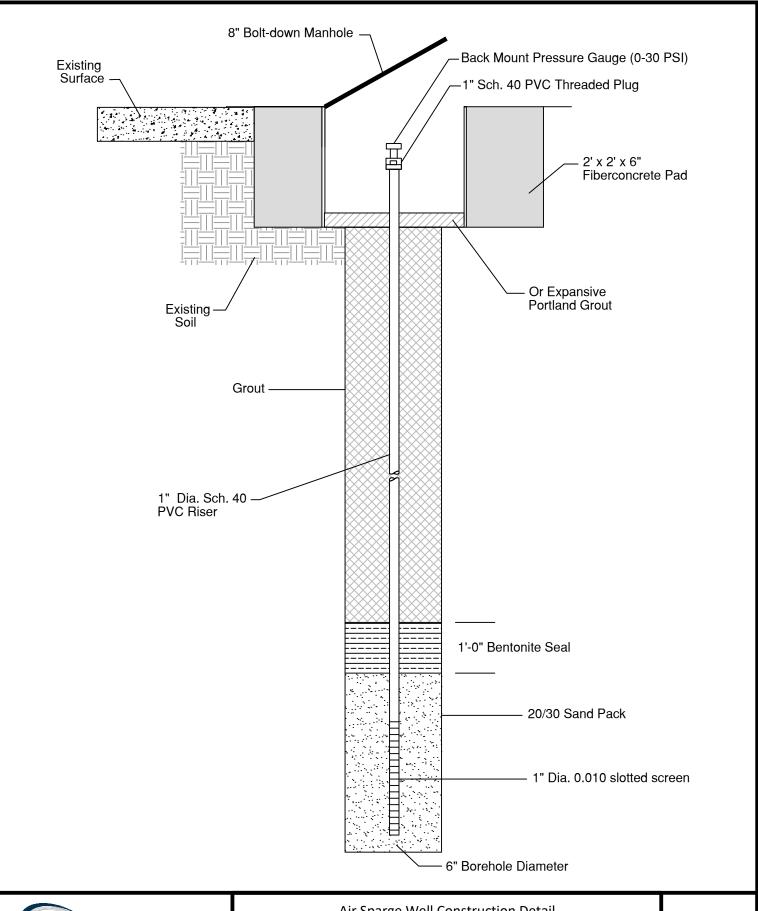






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4567 Pinson Valley Parkway Pinson, Jefferson County, Alabama





Air Sparge Well Construction Detail

A&M Quick Mart 4567 Pinson Valley Parkway Pinson, Jefferson County, Alabama Not to Scale



## **APPROVED ARBCA SSTLs**

**APPENDIX C** 

## Approved SSTLs A&M Quick Mart 4567 Pinson Valley Parkway Pinson, Jefferson County, AL UST10-11-03

		MTBE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	NAPHTHALENE
WELL ID	SSTL	Concentrations Reported in mg/L					
	GRP	0.0239	0.00598	1.2	0.838	12	0.0239
MW-1	Indoor Inhalation	16,000	8.42	526	169	175	26.4
	GRP	0.0239	0.00598	1.2	0.838	12	0.0239
MW-2	Indoor Inhalation	16,000	8.42	526	169	175	26.4
	GRP	0.0239	0.00598	1.2	0.838	12	0.0239
MW-3	Indoor Inhalation	16,000	8.42	526	169	175	26.4
	GRP	0.0232	0.00579	1.16	0.811	11.6	0.0232
MW-4	Indoor Inhalation	16,000	8.42	526	169	175	26.4
	GRP	0.0154	0.00385	0.77	0.539	7.7	0.0154
MW-5	Indoor Inhalation	16,000	8.42	526	169	175	26.4
	GRP	0.0239	0.00598	1.2	0.838	12	0.0239
MW-6	Indoor Inhalation	16,000	8.42	526	169	175	26.4
	GRP	0.023	0.00575	1.15	0.805	11.5	0.023
MW-7	Indoor Inhalation	16,000	8.42	526	169	175	26.4
	GRP	0.0214	0.00536	1.07	0.75	10.7	0.0214
MW-8	Indoor Inhalation	16,000	8.42	526	169	175	26.4
	GRP	0.00419	0.00105	0.209	0.147	2.09	0.00419
MW-9	Indoor Inhalation	16,000	8.42	526	169	175	26.4
	GRP	0.00342	0.000856	0.171	0.12	1.71	0.00342
MW-10	Indoor Inhalation	16,000	8.42	526	169	175	26.4
	GRP	0.0172	0.0043	0.86	0.602	8.6	0.0172
MW-11	Indoor Inhalation	16,000	8.42	526	169	175	26.4
	GRP	0.0239	0.00598	1.2	0.838	12	0.0239
MW-12	Indoor Inhalation	16,000	8.42	526	169	175	26.4
	GRP	0.0239	0.00598	1.2	0.838	12	0.0239
MW-13	Indoor Inhalation	16,000	8.42	526	169	175	26.4
	GRP	0.0239	0.00597	1.19	0.836	11.9	0.0239
MW-14	Indoor Inhalation	16,000	8.42	526	169	175	26.4
	GRP	0.0233	0.00583	1.17	0.816	11.7	0.0233
MW-15	Indoor Inhalation	16,000	8.42	526	169	175	26.4
	GRP	0.02	0.005	1	0.7	10	0.02
MW-16	Ingestion	0.02	0.005	1	0.7	10	0.02
	GRP	0.02	0.005	1	0.7	10	0.02
MW-17	Ingestion	0.02	0.005	1	0.7	10	0.02
N 414 4 4 4 4	GRP	0.02	0.005	1	0.7	10	0.02
MW-18	Ingestion	0.02	0.005	1	0.7	10	0.02
N 41 4 4 4 4	GRP	0.0239	0.00598	1.2	0.838	12	0.0239
MW-19	Indoor Inhalation	16,000	8.42	526	169	175	26.4
N 4147 22	GRP	0.02	0.005	1	0.7	10	0.02
MW-20	Ingestion	0.02	0.005	1	0.7	10	0.02
NAVA 24	GRP	0.02	0.005	1	0.7	10	0.02
MW-21	Ingestion	0.02	0.005	1	0.7	10	0.02
N 414 / 22	GRP	0.02	0.005	1	0.7	10	0.02
MW-22	Ingestion	0.02	0.005	1	0.7	10	0.02
DD) /E 1	GRP	0.0239	0.00598	1.2	0.838	12	0.0239
DPVE-1	Indoor Inhalation	16,000	8.42	526	169	175	26.4

#### Approved SSTLs A&M Quick Mart 4567 Pinson Valley Parkway Pinson, Jefferson County, AL UST10-11-03

WELL ID	SSTL	МТВЕ	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	NAPHTHALENE
WELLID		Concentrations Reported in mg/L					
Old MW-1	GRP	0.02	0.005	1	0.7	10	0.02
Old WW-1	Ingestion	0.02	0.005	1	0.7	10	0.02
Old MW-2	GRP	0.02	0.005	1	0.7	10	0.02
Old WW-Z	Ingestion	0.02	0.005	1	0.7	10	0.02
Old MW-3	GRP	0.02	0.005	1	0.7	10	0.02
Olu IVIVV-3	Ingestion	0.02	0.005	1	0.7	10	0.02
Old MW-4	GRP	0.02	0.005	1	0.7	10	0.02
Old WW-4	Ingestion	0.02	0.005	1	0.7	10	0.02
Old DW-1	GRP	0.02	0.005	1	0.7	10	0.02
Old DVV-1	Ingestion	0.02	0.005	1	0.7	10	0.02



# QUALITY ASSURANCE / QUALITY CONTROL PLAN



#### 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;
- 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:

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

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

 $\mathbf{I} = \mathbf{w} - \mathbf{d}$  (where  $\mathbf{w} =$  distance from the top of casing to the bottom of the well and  $\mathbf{d} =$  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.

- 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.



## SITE HEALTH & SAFETY PLAN

APPENDIX E

## **Site Health and Safety Plan**

A&M Quick Mart Facility ID# 20994-073-018453 UST No. 10-11-03

> Prepared For: Mr. Mike Singh 7845 Ware Drive Pinson, AL 35126

Prepared By:
CDG Engineers & Associates, Inc.
3 Riverchase Ridge
Hoover, Alabama 35244

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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 A&M Quick Mart site located in Pinson, Jefferson 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	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
	H3O	appropriate enforcement agencies.  Coordinates and oversees all field activities.
Daniel Roe	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 may 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 my 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 attached to this Health & Safety Plan.

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

#### 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 OHSA.

#### 7.1.1.2 Heat Rash

Heat rash (prickly heat) is the most common heat stress factor, and may result form 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.

<u>Caution:</u> 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	SYMPTOMS	TREATMENT
HAZARDS		
	Impaired performance	No known treatment. Victim should be placed under
Heat Fatigue	of skilled sensorimotor,	cooler conditions until body core temperature lowers.
	mental or vigilance jobs	

TEMPERATURE HAZARDS	SYMPTOMS	TREATMENT
Heat Rash	Rash due to plugged sweat ducts, generally where	Keep dry towels or paper towels at the site to dry skin when excessive sweating occurs.
	clothing is restrictive	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 Electrocution

#### 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:

<u>Caution:</u> 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	PPE REQUIREMENTS		
PROTECTION			
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		
Level D	protection is necessary.		

LEVELS OF PPE	PPE REQUIREMENTS		
PROTECTION			
Level C	Worn when the criteria for using air-purifying respirators are met, and a lesser level of skin		
Level C	protection is necessary.		
	Refers to work conducted without respiratory protection. This level should be used only when		
Level D	the atmosphere contains no know 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 area 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 exists
- 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

<u>Caution:</u> 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		1-205-934-3411
Corporate HSO	David Dailey	1-205-403-2600
Project Manager	Daniel Roe	1-205-403-2600
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: <u>UAB Hospital</u>

Address: 1802 6th Avenue South, Birmingham, AL 35233

Phone: <u>205-934-3411</u>

Route to Hospital: see attached map with driving directions

Travel Time from Site: 27 minutes

Distance to Hospital: 15.2 miles

Name/Number of 24-hour Ambulance Service: 911

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



## SAFETY DATA SHEET

**SDS ID NO.:** 0127MAR019 **Revision Date** 03/19/2018

#### 1. IDENTIFICATION

Product Name: Marathon Petroleum Gasoline - All Grades

Synonym: Gasoline; Regular Unleaded Gasoline; Conventional Regular Unleaded Gasoline; Mid

Grade Unleaded Gasoline; Conventional Mid Grade Unleaded Gasoline; Premium Unleaded Gasoline; Conventional Premium Unleaded Gasoline; Sub-Octane Gasoline; Regular RBOB; Super RBOB; Premium RBOB; RBOB; Reformulated Blend Stock For Oxygenated Blending; 84 Octane Gasoline; CBOB; Premium CBOB; Conventional Blend Stock for Oxygenate Blending; Recreational Gasoline; Recreational Gasoline; Recreational Unleaded Gasoline; 89 Recreational Gasoline; Brand 89 Recreational Gasoline; 7.0 Max

RVP 89 Recreational Gasoline; BR 7.0 Max RVP 89 Recreational Gasoline; 90

Recreational Gasoline; 90 Marina Gasoline; Brand EX 90 UL Recrtnl Gasoline; Brand 91 Recreational Gasoline; 91 Recreational Gasoline; 91 Marina Gasoline; 90 Octane Midgrade Gasoline with No Ethanol; 7.8# New York CBOB Gasoline Blend Grade; Non-Summer New

York CBOB Gasoline Blend Grade 0125MAR019; 0126MAR019; 0134MAR019;

Product Code: 0127MAR019

Chemical Family: Complex Hydrocarbon Substance

Recommended Use: Fuel.
Restrictions on Use: All others.

Manufacturer, Importer, or Responsible Party Name and Address: MARATHON PETROLEUM COMPANY LP 539 South Main Street

Findlay, OH 45840

**SDS information (M-F, 8-5 EST)**: 1-419-421-3070

**Emergency Telephone (24/7):** CHEMTREC: 1-800-424-9300 CCN#: 13740

#### 2. HAZARD IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

0313MAR019: 0314MAR019

Flammable liquids	Category 1
Skin corrosion/irritation	Category 2
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Aspiration toxicity	Category 1

SDS ID NO.: 0127MAR019 Product name: Marathon Petroleum Gasoline - All Grades Page 1 of 22

Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

#### **Hazards Not Otherwise Classified (HNOC)**

Static accumulating flammable liquid

#### Label elements

#### **EMERGENCY OVERVIEW**

#### Danger

#### EXTREMELY FLAMMABLE LIQUID AND VAPOR

May accumulate electrostatic charge and ignite or explode

May be fatal if swallowed and enters airways

Causes skin irritation

May cause respiratory irritation

May cause drowsiness or dizziness

May cause genetic defects

May cause cancer

Suspected of damaging fertility or the unborn child

Causes damage to organs (blood, blood-forming organs, immune system) through prolonged or repeated exposure

Toxic to aquatic life with long lasting effects



Appearance Clear yellow liquid

Physical State Liquid

**Odor** Hydrocarbon

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools.

Take action to prevent static discharges

Do not eat, drink or smoke when using this product

Do not breathe mist/vapors/spray

Use only outdoors or in a well-ventilated area

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

Wash hands and any possibly exposed skin thoroughly after handling

Avoid release to the environment

#### **Precautionary Statements - Response**

IF exposed, concerned or you feel unwell: Get medical attention

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

If skin irritation occurs: Get medical attention

Wash contaminated clothing before reuse

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

Call a POISON CENTER or doctor if you feel unwell

IF SWALLOWED: Immediately call a POISON CENTER or doctor

Do NOT induce vomiting

In case of fire: Use water spray, fog or regular foam for extinction

Collect spillage

SDS ID NO.: 0127MAR019 Product name: Marathon Petroleum Gasoline - All Grades Page 2 of 22

#### **Precautionary Statements - Storage**

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

#### **Precautionary Statements - Disposal**

Dispose of contents/container at an approved waste disposal plant

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Gasoline is a complex combination of hydrocarbons consisting of paraffins, cycloparaffins, aromatic and olefinic hydrocarbons having molecular chains ranging in length from four to ten carbons. May contain small amounts of dye and other additives (>0.02%) which are not considered hazardous at the concentrations used.

#### **Composition Information:**

Name	CAS Number	% Concentration
Gasoline	86290-81-5	100
Heptane (mixed isomers)	142-82-5	2.5-26
Butane (mixed isomers)	106-97-8	0.5-19
Pentane (mixed isomers)	78-78-4	6.5-19
Hexane Isomers (other than n-Hexane)	107-83-5	2-12
Toluene	108-88-3	3-9.5
Xylene (mixed isomers)	1330-20-7	3.5-9.5
Benzene	71-43-2	0.1-4.9
n-Hexane	110-54-3	0.1-4.5
Cumene	98-82-8	0-4
1,2,4 Trimethylbenzene	95-63-6	1-4
Ethylbenzene	100-41-4	0.5-2.5
Cyclohexane	110-82-7	0-1.5
Octane	111-65-9	0-1.5
1,2,3-Trimethylbenzene	526-73-8	0-1
Naphthalene	91-20-3	0.1-0.5

Benzene concentration is percent by volume. All other concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

#### 4. FIRST AID MEASURES

#### **First Aid Measures**

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show directions

for use or safety data sheet if possible).

**Inhalation:** Remove to fresh air. If not breathing, institute rescue breathing. If breathing is difficult,

ensure airway is clear, give oxygen and continue to monitor. If heart has stopped,

immediately begin cardiopulmonary resuscitation (CPR). Keep affected person warm and at

rest. If symptoms occur get medical attention.

Skin Contact: Immediately wash exposed skin with plenty of soap and water while removing contaminated

clothing and shoes. May be absorbed through the skin in harmful amounts. Get medical attention if irritation persists. Any injection injury from high pressure equipment should be evaluated immediately by a physician as potentially serious (See NOTES TO PHYSICIAN).

Place contaminated clothing in closed container until cleaned or discarded. If clothing is to be laundered, inform the person performing the operation of contaminant's hazardous

properties. Destroy contaminated, non-chemical resistant footwear.

Eye Contact: Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be

held away from the eyeball to ensure thorough rinsing. Gently remove contacts while

SDS ID NO.: 0127MAR019 Product name: Marathon Petroleum Gasoline - All Grades Page 3 of 22

**Revision Date** 03/19/2018

flushing. Get medical attention if irritation persists.

Ingestion:

Do not induce vomiting because of danger of aspirating liquid into lungs, causing serious damage and chemical pneumonitis. If spontaneous vomiting occurs, keep head below hips, or if patient is lying down, turn body and head to side to prevent aspiration and monitor for breathing difficulty. Never give anything by mouth to an unconscious person. Keep affected person warm and at rest. GET IMMEDIATE MEDICAL ATTENTION.

#### Most important signs and symptoms, both short-term and delayed with overexposure

**Adverse Effects:** 

Irritating to the skin and mucous membranes. Symptoms may include redness, itching, and inflammation. May cause nausea, vomiting, diarrhea, and signs of nervous system depression: headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue. Aspiration hazard. May cause coughing, chest pains, shortness of breath, pulmonary edema and/or chemical pneumonitis. Prolonged or repeated exposure may cause adverse effects on blood, blood-forming organs, and immune system. Repeated or prolonged skin contact may cause drying, reddening, itching and cracking.

#### Indication of any immediate medical attention and special treatment needed

Notes To Physician:

INHALATION: This material (or a component) sensitizes the myocardium to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in individuals exposed to this material. Administration of sympathomimetic drugs should be avoided.

SKIN: Leaks or accidents involving high-pressure equipment may inject a stream of material through the skin and initially produce an injury that may not appear serious. Only a small puncture wound may appear on the skin surface but, without proper treatment and depending on the nature, original pressure, volume, and location of the injected material, can compromise blood supply to an affected body part. Prompt surgical debridement of the wound may be necessary to prevent irreversible loss of function and/or the affected body part. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES.

INGESTION: This material represents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended.

#### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

#### Unsuitable extinguishing media

Do not use straight water streams to avoid spreading fire.

#### Specific hazards arising from the chemical

This product has been determined to be an extremely flammable liquid per the OSHA Hazard Communication Standard and should be handled accordingly. May accumulate electrostatic charge and ignite or explode. Vapors may travel along the ground or be moved by ventilation and ignited by many sources such as pilot lights, sparks, electric motors, static discharge, or other ignition sources at locations distant from material handling. Flashback can occur along vapor trail. For additional fire related information, see NFPA 30 or the Emergency Response Guidebook 128.

#### **Hazardous combustion products**

Smoke, carbon monoxide, and other products of incomplete combustion.

#### **Explosion data**

Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge Yes.

#### Special protective equipment and precautions for firefighters

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Firefighters should wear full protective clothing and positive-pressure self-contained breathing apparatus (SCBA) with a full face-piece, as appropriate. Avoid using straight water streams. Water may be ineffective in extinguishing low flash point fires, but can be used to cool exposed surfaces. Avoid excessive water spray application. Water spray and foam (AFFF/ATC) must be

applied carefully to avoid frothing and from as far a distance as possible. Keep run-off water out of sewers and water sources.

Additional firefighting tactics

FIRES INVOLVING TANKS OR CAR/TRAILER LOADS: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after the fire is out. Do not direct water at source of leak or safety devices; icing may occur. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles: if this is impossible, withdraw from area and let fire burn.

EVACUATION: Consider initial downwind evacuation for at least 1000 feet. If tank, rail car or tank truck is involved in a fire, ISOLATE for 5280 feet (1 mile) in all directions; also, consider initial evacuation of 5280 feet (1 mile) in all directions.

NFPA Health 1 Flammability 3 Instability 0 Special Hazard -

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Eliminate all

ignition sources.

**Protective equipment:** Use personal protection measures as recommended in Section 8.

**Emergency procedures:** Advise authorities and National Response Center (800-424-8802) if the product has

entered a water course or sewer. Notify local health and pollution control agencies, if

appropriate.

**Environmental precautions:** Avoid release to the environment. Avoid subsoil penetration. Ethanol in gasoline phase

seperates in contact with water. Monitor downstream for dissolved ethanol or other

appropriate indicators.

Methods and materials for

containment:

Contain liquid with sand or soil. Prevent spilled material from entering storm drains, sewers,

and open waterways.

Methods and materials for cleaning

up:

Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids. Recover and return free product to proper containers. When recovering free liquids

ensure all equipment is grounded and bonded. Use only non-sparking tools.

#### 7. HANDLING AND STORAGE

Safe Handling Precautions:

NEVER SIPHON THIS PRODUCT BY MOUTH. Use appropriate grounding and bonding practices. Static accumulating flammable liquid. Bonding and grounding may be insufficient to eliminate the hazard from static electricity. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. Vapors may travel along the ground or be moved by ventilation. Flashback may occur along vapor trails. No smoking. Use only non-sparking tools. Avoid contact with skin, eyes and clothing. Avoid breathing fumes, gas, or vapors. Use only with adequate ventilation. Avoid repeated and prolonged skin contact. Use personal protection measures as recommended in Section 8. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water. Do not cut, drill, grind or weld on empty containers since explosive residues may remain. Refer to applicable EPA, OSHA, NFPA and consistent state and local requirements.

Hydrocarbons are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering, pumping at high flow rates or loading and transfer operations. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids. Sudden release of hot organic chemical vapors or mists from process equipment operating under elevated temperature and pressure, or sudden ingress of air into vacuum equipment may result in ignition of vapors or mists without the

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presence of obvious ignition sources. Nozzle spouts must be kept in contact with the containers or tank during the entire filling operation.

Portable containers should never be filled while in or on a motor vehicle or marine craft. Containers should be placed on the ground. Static electric discharge can ignite fuel vapors when filling non-grounded containers or vehicles on trailers. The nozzle spout must be kept in contact with the container before and during the entire filling operation. Use only approved containers.

A buildup of static electricity can occur upon re-entry into a vehicle during fueling especially in cold or dry climate conditions. The charge is generated by the action of dissimilar fabrics (i.e., clothing and upholstery) rubbing across each other as a person enters/exits the vehicle. A flash fire can result from this discharge if sufficient flammable vapors are present. Therefore, do not get back in your vehicle while refueling.

Cellular phones and other electronic devices may have the potential to emit electrical charges (sparks). Sparks in potentially explosive atmospheres (including fueling areas such as gas stations) could cause an explosion if sufficient flammable vapors are present. Therefore, turn off cellular phones and other electronic devices when working in potentially explosive atmospheres or keep devices inside your vehicle during refueling.

High-pressure injection of any material through the skin is a serious medical emergency even though the small entrance wound at the injection site may not initially appear serious. These injection injuries can occur from high-pressure equipment such as paint spray or grease or guns, fuel injectors, or pinhole leaks in hoses or hydraulic lines and should all be considered serious. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES (See First Aid Section 4).

**Storage Conditions:** 

Store in properly closed containers that are appropriately labeled and in a cool, well-ventilated area. Do not store near an open flame, heat or other sources of ignition.

**Incompatible Materials** 

Strong oxidizing agents.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	ACGIH TLV	OSHA PELS:	OSHA - Vacated PELs	NIOSH IDLH
Gasoline 86290-81-5	300 ppm TWA 500 ppm STEL	-	300 ppm TWA 900 mg/m³ TWA 500 ppm STEL 1500 mg/m³ STEL	-
Heptane (mixed isomers) 142-82-5	400 ppm TWA 500 ppm STEL	TWA: 500 ppm TWA: 2000 mg/m <sup>3</sup>	400 ppm TWA 1600 mg/m³ TWA 500 ppm STEL 2000 mg/m³ STEL	750 ppm
Butane (mixed isomers) 106-97-8	1000 ppm STEL	-	800 ppm TWA 1900 mg/m³ TWA	-
Pentane (mixed isomers) 78-78-4	1000 ppm TWA	-	-	-
Hexane Isomers (other than n-Hexane) 107-83-5	500 ppm TWA 1000 ppm STEL	-	500 ppm TWA 1800 mg/m³ TWA 1000 ppm STEL 3600 mg/m³ STEL	-
Toluene 108-88-3	20 ppm TWA	TWA: 200 ppm Ceiling: 300 ppm	100 ppm TWA 375 mg/m³ TWA 150 ppm STEL 560 mg/m³ STEL	500 ppm
Xylene (mixed isomers) 1330-20-7	100 ppm TWA 150 ppm STEL	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup>	100 ppm TWA 435 mg/m³ TWA 150 ppm STEL 655 mg/m³ STEL	900 ppm
Benzene	0.5 ppm TWA	TWA: 10 ppm (applies to	25 ppm Ceiling	500 ppm

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71-43-2	2.5 ppm STEL Skin - potential significant contribution to overall exposure by the cutaneous route	industry segments exempt from the benzene standard) TWA: 1 ppm STEL: 5 ppm (see 29 CFR 1910.1028)	1 ppm TWA 5 ppm STEL	
n-Hexane 110-54-3	50 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 500 ppm TWA: 1800 mg/m³	50 ppm TWA 180 mg/m³ TWA	1100 ppm
Cumene 98-82-8	50 ppm TWA	TWA: 50 ppm TWA: 245 mg/m³ Skin	50 ppm TWA 245 mg/m³ TWA Limit applies to skin	900 ppm
1,2,4 Trimethylbenzene 95-63-6	25 ppm TWA	-	25 ppm TWA 125 mg/m³ TWA	-
Ethylbenzene 100-41-4	20 ppm TWA	TWA: 100 ppm TWA: 435 mg/m³	100 ppm TWA 435 mg/m³ TWA 125 ppm STEL 545 mg/m³ STEL	800 ppm
Cyclohexane 110-82-7	100 ppm TWA	TWA: 300 ppm TWA: 1050 mg/m <sup>3</sup>	300 ppm TWA 1050 mg/m³ TWA	1300 ppm
Octane 111-65-9	300 ppm TWA	TWA: 500 ppm TWA: 2350 mg/m <sup>3</sup>	300 ppm TWA 1450 mg/m³ TWA 375 ppm STEL 1800 mg/m³ STEL	1000 ppm
1,2,3-Trimethylbenzene 526-73-8	25 ppm TWA	-	25 ppm TWA 125 mg/m³ TWA	-
Naphthalene 91-20-3	10 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route		10 ppm TWA 50 mg/m³ TWA 15 ppm STEL 75 mg/m³ STEL	250 ppm

Notes:

The manufacturer has voluntarily elected to provide exposure limits contained in OSHA's 1989 air contaminants standard in its SDSs, even though certain of those exposure limits

were vacated in 1992.

**Engineering measures:** 

Local or general exhaust required in an enclosed area or when there is inadequate ventilation. Use mechanical ventilation equipment that is explosion-proof.

Personal protective equipment

Use goggles or face-shield if the potential for splashing exists. Eye protection:

Use nitrile rubber, Viton® or PVA gloves for repeated or prolonged skin exposure. Glove Skin and body protection: suitability is based on workplace conditions and usage. Contact the glove manufacturer for

specific advice on glove selection and breakthrough times.

Use a NIOSH approved organic vapor chemical cartridge or supplied air respirators when Respiratory protection:

there is the potential for airborne exposures to exceed permissible exposure limits or if excessive vapors are generated. Observe respirator assigned protection factors (APFs) criteria cited in federal OSHA 29 CFR 1910.134. Self-contained breathing apparatus should

be used for fire fighting.

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with Hygiene measures:

skin, eyes and clothing.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**Physical State** Liquid

**Appearance** Clear yellow liquid

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**Revision Date** 03/19/2018

Color Yellow
Odor Hydrocarbon
Odor Threshold No data available.

Property Values (Method)
Melting Point / Freezing Point No data available.

Initial Boiling Point / Boiling Range 24-210 °C / 75-410 °F (ASTM D86)

Flash Point -43 °C / -45 °F
Evaporation Rate No data available.
Flammability (solid, gas) Not applicable.

Flammability Limit in Air (%):

Upper Flammability Limit: 7.6 Lower Flammability Limit: 1.4

**Explosion limits:** No data available. **Vapor Pressure** 5.5-15 psi (ASTM D4814)

Vapor Density 3-4

Specific Gravity / Relative Density 0.70-0.76

Water Solubility

No data available.

Solubility in other solvents

No data available.

Partition Coefficient 2.13-4.5

Decomposition temperature<br/>pH:No data available.<br/>Not applicableAutoignition Temperature280 °C / 536 °FKinematic ViscosityNo data available.Dynamic ViscosityNo data available.Explosive PropertiesNo data available.

VOC Content (%) 100%

**Density**No data available. **Bulk Density**Not applicable.

#### 10. STABILITY AND REACTIVITY

Reactivity The product is non-reactive under normal conditions.

<u>Chemical stability</u> The material is stable at 70°F (21°C), 760 mmHg pressure.

<u>Possibility of hazardous reactions</u>

None under normal processing.

<u>Hazardous polymerization</u> Will not occur.

<u>Conditions to avoid</u> Excessive heat, sources of ignition, open flame.

Incompatible Materials Strong oxidizing agents.

Hazardous decomposition products

None known under normal conditions of use.

#### 11. TOXICOLOGICAL INFORMATION

#### Potential short-term adverse effects from overexposures

**Inhalation** May cause irritation of respiratory tract. May cause drowsiness or dizziness. Breathing high

concentrations of this material in a confined space or by intentional abuse can cause

irregular heartbeats which can cause death.

Eye contact Exposure to vapor or contact with liquid may cause mild eye irritation, including tearing,

stinging, and redness.

Skin contact Irritating to skin. Effects may become more serious with repeated or prolonged contact. May

be absorbed through the skin in harmful amounts.

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#### Ingestion

May be fatal if swallowed or vomited and enters airways. May cause irritation of the mouth, throat and gastrointestinal tract.

#### Acute toxicological data

Name	Oral LD50	Dermal LD50	Inhalation LC50
Gasoline 86290-81-5	14000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Heptane (mixed isomers) 142-82-5	-	3000 mg/kg (Rabbit)	103 g/m³ (Rat) 4 h
Butane (mixed isomers) 106-97-8	-	-	658 mg/L (Rat) 4 h
Pentane (mixed isomers) 78-78-4	-	-	450 mg/L (Mouse) 2 h
Hexane Isomers (other than n-Hexane) 107-83-5	> 5000 mg/kg (Rat)	-	-
Toluene 108-88-3	> 2000 mg/kg (Rat)	8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h
Xylene (mixed isomers) 1330-20-7	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.04 mg/L (Rat) 4 h
Benzene 71-43-2	> 2000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 20 mg/l (Rat) 4 h
n-Hexane 110-54-3	15000 mg/kg (Rat)	3000 mg/kg (Rabbit)	48000 ppm (Rat) 4 h
Cumene 98-82-8	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 20 mg/L (Rat) 6 h
1,2,4 Trimethylbenzene 95-63-6	3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	18,000 mg/m³ (Rat) 4 h
Ethylbenzene 100-41-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	17.2 mg/L (Rat) 4 h
Cyclohexane 110-82-7	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	13.9 mg/L (Rat) 4 h
Octane 111-65-9	-	-	118 g/m³ (Rat) 4 h
1,2,3-Trimethylbenzene 526-73-8	-	-	-
Naphthalene 91-20-3	490 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 340 mg/m³ (Rat) 1 h

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

NAPHTHAS: In a large epidemiological study on over 15,000 employees at several petroleum refineries and amongst residents located near these refineries, no increased risk of kidney cancer was observed in association with gasoline exposures (a similar material). In a similar study, no increased risk of kidney cancer was observed among petroleum refinery workers, but there was a slight trend in the incidence of kidney cancers among service station employees, especially after a 30-year latency period. Altered mental state, drowsiness, peripheral motor neuropathy, irreversible brain damage (so-called Petrol Sniffer's Encephalopathy), delirium, seizures, and sudden death have been reported from repeated overexposure to some hydrocarbon solvents, naphthas, and gasoline.

ISOPARAFFINS: Studies in laboratory animals have shown that long-term exposure to similar materials (isoparaffins) can cause kidney damage and kidney cancer in male laboratory rats. However, in-depth research indicates that these findings are unique to the male rat, and that these effects are not relevant to humans.

C9 AROMATIC HYDROCARBONS: A developmental inhalation study was conducted in laboratory mice. Increased implantation losses, reduced fetal weights, delayed ossification and an increased incidence of cleft palate were observed at the highest exposure level (1,500 ppm). This exposure level was extremely toxic to pregnant female mice (44% mortality). Reduced fetal body weights were also observed at 500 ppm. A multi-generation reproduction inhalation study was conducted in laboratory rats.

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Reductions in pup weights, pup weight gain, litter size, and pup survival were observed at 1,500 ppm, an exposure level at which significant maternal toxicity was observed. Reduced pup weight gain was also observed at 500 ppm.

BUTANES: Studies in laboratory animals indicate exposure to extremely high levels of butanes (1-10 or higher vol.% in air) may cause cardiac arrhythmias (irregular heartbeats) which may be serious or fatal.

PENTANES: Studies of pentane isomers in laboratory animals indicate exposure to extremely high levels (roughly 10 vol.%) may induce cardiac arrhythmias (irregular heartbeats) which may be serious or fatal.

TOLUENE: Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Abuse of toluene at high concentrations (e.g., glue sniffing and solvent abuse) has been associated with adverse effects on the liver, kidney and nervous system, and can cause CNS depression, cardiac arrhythmias, and death. Studies of workers indicate longterm exposure may be related to impaired color vision and hearing. Some studies of workers suggest longterm exposure may be related to neurobehavioral and cognitive changes. Some of these effects have been observed in laboratory animals following repeated exposure to high levels of toluene. Several studies of workers suggest longterm exposure may be related to small increases in spontaneous abortions and changes in some gonadotropic hormones. However, the weight of evidence does not indicate toluene is a reproductive hazard to humans. Studies in laboratory animals indicate some changes in reproductive organs following high levels of exposure, but no significant effects on mating performance or reproduction were observed. Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Findings in laboratory animals have been largely negative. Positive findings include small increases in minor skeletal and visceral malformations and developmental delays following very high levels of maternal exposure. Studies of workers indicate long-term exposure may be related to effects on the liver, kidney and blood, but these appear to be limited to changes in serum enzymes and decreased leukocyte counts. Adverse effects on the liver, kidney, thymus and nervous system were observed in animal studies following very high levels of exposure. The relevance of these findings to humans is not clear at this time.

XYLENES, ALL ISOMERS: Overexposure to xylene may cause upper respiratory tract irritation, headache, cyanosis, blood serum changes, nervous system damage and narcosis. Effects may be increased by the use of alcoholic beverages. Evidence of liver and kidney impairment were reported in workers recovering from a gross overexposure. Effects from Prolonged or Repeated Exposure: Impaired neurological function was reported in workers exposed to solvents including xylene. Studies in laboratory animals have shown evidence of impaired hearing following high levels of exposure. Studies in laboratory animals suggest some changes in reproductive organs following high levels of exposure but no significant effects on reproduction were observed. Studies in laboratory animals indicate skeletal and visceral malformations, developmental delays, and increased fetal resorptions following extremely high levels of maternal exposure with evidence of maternal toxicity. The relevance of these observations to humans is not clear at this time. Adverse effects on the liver, kidney, bone marrow (changes in blood cell parameters) were observed in laboratory animals following high levels of exposure. The relevance of these observations to humans is not clear at this time.

BENZENE: Studies of workers exposed to benzene show clear evidence that overexposure can cause cancer and other diseases of the blood forming organs including Acute Myelogenous Leukemia (AML), and Aplastic Anemia (AA), an often fatal disease. Some studies suggest overexposure to benzene may also be associated with Myelodysplastic Syndrome (MDS). Findings from a case control study of workers exposed to benzene was reported during the 2009 Benzene Symposium in Munich included an increase in Acute Myeloid Leukemias and Non-Hodgkins Lymphoid Neoplasms (NHLN) of the subtype follicular lymphoma (FL) in some occupational categories. Some studies of workers exposed to benzene have shown an association with increased rates of chromosome aberrations in circulating lymphocytes. One study of women workers exposed to benzene

suggested a weak association with irregular menstruation. However, other studies of workers exposed to benzene have not demonstrated clear evidence of an effect on fertility or reproductive outcome in humans. Benzene can cross the placenta and affect the developing fetus. Cases of AA have been reported in the offspring of persons severely overexposed to benzene. Studies in laboratory animals indicate that prolonged, repeated exposure to high levels of benzene vapor can cause bone marrow suppression and cancer in multiple organ systems. Studies in laboratory animals show evidence of adverse effects on male reproductive organs following high levels of exposure but no significant effects on reproduction have been observed. Embryotoxicity has been reported in studies of laboratory animals but effects were limited to reduced fetal weight and minor skeletal variations. Benzene has been classified as a proven human carcinogen by OSHA and a Group 1 (Carcinogenic to Humans) material by IARC. The current proposed IARC classification for benzene is summarized as follows: Sufficient evidence for Acute Myeloid Leukemia; limited evidence for Acute Lymphatic Leukemia, Chronic Lymphatic Leukemia, Non-Hodgkin Lymphoma, and Multiple Myeloma.

N-HEXANE: Long-term or repeated exposure to n-hexane can cause peripheral nerve damage. Initial symptoms are numbness of the fingers and toes. Also, motor weakness can occur in the digits, but may also involve muscles of the arms, thighs and forearms. The onset of these symptoms may be delayed for several months to a year after the beginning of exposure. Testicular atrophy and partial to full loss of the germ cell line were observed in sub-chronic high-dose inhalation studies of laboratory rodents. These effects appeared irreversible. Rodent reproduction studies have shown evidence of reduced fetal weight but no frank malformations.

CUMENE: Overexposure to cumene may cause upper respiratory tract irritation and CNS depression. Studies in laboratory animals indicate evidence of respiratory tract hyperplasia, and adverse effects on the liver, kidney and adrenal glands following high level exposure. The relevance of these findings to humans is not clear at this time. Findings from lifetime laboratory rodent inhalation studies were as follows: In F344/N rats: an increased incidence of renal carcinomas and adenomas, respiratory epithelial adenomas, and interstitial cell adenomas of the testes. In B6C3F1 mice: an increased incidence of carcinomas and adenomas of the bronchi and lung, liver neoplasms, hemangiosarcomas of the spleen, and adenomas of the thyroid.

1,2,4-TRIMETHYLBENZENE: The following information pertains to a mixture of C9 aromatic hydrocarbons, over 40% of which was composed of 1,2,4-trimethylbenzene. A developmental inhalation study was conducted in laboratory mice. Increased implantation losses, reduced fetal weights, delayed ossification and an increased incidence of cleft palate were observed at the highest exposure level (1,500 ppm). This exposure level was extremely toxic to pregnant female mice (44% mortality). Reduced fetal body weights were also observed at 500 ppm. A multi-generation reproduction inhalation study was conducted in laboratory rats. Reductions in pup weights, pup weight gain, litter size, and pup survival were observed at 1,500 ppm, an exposure level at which significant maternal toxicity was observed. Reduced pup weight gain was also observed at 500 ppm. Embryotoxicity has been reported in studies of laboratory animals. Adverse effects included increased implantation losses, reduced fetal weights, delayed ossification and an increased incidence of cleft palate.

ETHYLBENZENE: Findings from a 2-year inhalation study in rodents conducted by NTP were as follows: Effects were observed only at the highest exposure level (750 ppm). At this level the incidence of renal tumors was elevated in male rats (tubular carcinomas) and female rats (tubular adenomas). The incidence of tumors was also elevated in male mice (alveolar and bronchiolar carcinomas) and female mice (hepatocellular carcinomas). IARC has classified ethyl benzene as "possibly carcinogenic to humans" (Group 2B). Studies in laboratory animals indicate some evidence of post-implantation deaths following high levels of maternal exposure. The relevance of these findings to humans is not clear at this time. Studies in laboratory animals indicate limited evidence of renal malformations, resorptions, and developmental delays following high levels of maternal exposure with evidence of maternal toxicity. The relevance of these findings to humans is not clear at this time. Studies in laboratory animals have demonstrated evidence of ototoxicity (hearing loss)

following exposure levels as low as 300 ppm for 5 days. Studies in laboratory animals indicate some evidence of adverse effects on the liver, kidney, thyroid, and pituitary gland.

NAPHTHALENE: Severe jaundice, neurotoxicity (kernicterus) and fatalities have been reported in young children and infants as a result of hemolytic anemia from overexposure to naphthalene. Persons with glucose 6-phosphate dehydrogenase (G6PD) deficiency are more prone to the hemolytic effects of naphthalene. Adverse effects on the kidney have been reported in persons overexposed to naphthalene but these effects are believed to be a consequence of hemolytic anemia, and not a direct effect. Hemolytic anemia has been observed in laboratory animals exposed to naphthalene. Laboratory rodents exposed to naphthalene vapor for 2 years (lifetime studies) developed non-neoplastic and neoplastic tumors and inflammatory lesions of the nasal and respiratory tract. Cataracts and other adverse effects on the eye have been observed in laboratory animals exposed to high levels of naphthalene. Findings from a large number of bacterial and mammalian cell mutation assays have been negative. A few studies have shown chromosomal effects (elevated levels of Sister Chromatid Exchange or chromosomal aberrations) in vitro. Naphthalene has been classified as Possibly Carcinogenic to Humans (2B) by IARC, based on findings from studies in laboratory animals.

CARBON MONOXIDE: is a chemical asphyxiant with no warning properties (such as odor). At 400-500 ppm for 1 hour headache and dyspnea may occur. If activity is increased, symptoms of overexposure may include nausea, irritability, increased respiration, tinnitus, sweating, chest pain, confusion, impaired judgement, dizziness, weakness, drowsiness, ataxia, irregular heart beat, cyanosis and pallor. Levels in excess of 1000 ppm can result in collapse, loss of conciousness, respiratory failure and death. Extremely high concentrations (12,800 ppm) can cause immediate unconsciousness and death in 1-3 minutes. Repeated anoxia can lead to central nervous system damage and peripheral neuropathy, with loss of sensation in the fingers, amnesia, and mental deterioration and possible congestive heart failure. Damage may also occur to the fetus, lung, liver, kidney, spleen, cardiovascular system and other organs.

WHOLLY-VAPORIZED UNLEADED GASOLINE: Lifetime exposure to wholly vaporized unleaded gasoline produced an increased incidence of liver tumors in female mice exposed to the highest exposure concentration (2056 ppm) and  $\alpha\text{-}2$  urinary globulin-mediated kidney tumors in male rats. No exposure-related tumors were observed in male mice or female rats. The male-specific rat kidney tumors are not considered relevant to human health. Mice receiving lifetime repeated skin application of various petroleum naphthas exhibited an irritation-dependent increased incidence of skin tumors. Additional studies suggest that these tumors occur through a mechanism that may not be relevant to human health. Epidemiological data from over 18,000 petroleum marketing and distribution workers showed no increased risk of leukemia, multiple myeloma, or kidney cancer resulting from gasoline exposure. Unleaded gasoline has been identified as possibly carcinogenic to humans (2B) by the International Agency for Research on Cancer (IARC).

COMBUSTION ENGINE EXHAUST: Chronic inhalation studies of gasoline engine exhaust in mice, rats and hamsters did not produce any carcinogenic effects. Condensates/extracts of gasoline engine exhaust produced an increase in tumors compared to controls when testing by skin painting, subcutaneous injection, intratracheal instillation or implantation into the lungs. Gasoline exhaust has been classified as possibly carcinogenic to humans (2B) by the International Agency for Research on Cancer (IARC).

#### Adverse effects related to the physical, chemical and toxicological characteristics

#### Signs and Symptoms

Irritating to the skin and mucous membranes. Symptoms may include redness, itching, and inflammation. May cause nausea, vomiting, diarrhea, and signs of nervous system depression: headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue. Aspiration hazard. May cause coughing, chest pains, shortness of breath, pulmonary edema and/or chemical pneumonitis. Prolonged or repeated exposure may cause damage to organs. Repeated or prolonged skin contact may cause drying, reddening, itching and cracking.

**Sensitization** Not expected to be a skin or respiratory sensitizer.

Mutagenic effects May cause genetic defects.

**Carcinogenicity** May cause cancer.

Cancer designations are listed in the table below

Name	ACGIH	IARC	NTP	OSHA
	(Class)	(Class)		
Gasoline 86290-81-5	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Not Listed	Not Listed
Heptane (mixed isomers) 142-82-5	Not Listed	Not Listed	Not Listed	Not Listed
Butane (mixed isomers) 106-97-8	Not Listed	Not Listed	Not Listed	Not Listed
Pentane (mixed isomers) 78-78-4	Not Listed	Not Listed	Not Listed	Not Listed
Hexane Isomers (other than n-Hexane) 107-83-5	Not Listed	Not Listed	Not Listed	Not Listed
Toluene 108-88-3	Not Classifiable (A4)	Not Classifiable (3)	Not Listed	Not Listed
Xylene (mixed isomers) 1330-20-7	Not classifiable (A4)	Not classifiable (3)	Not Listed	Not Listed
Benzene 71-43-2	Confirmed human carcinogen (A1)	Carcinogenic to humans (1)	Known to be human carcinogen	Known carcinogen
n-Hexane 110-54-3	Not Listed	Not Listed	Not Listed	Not Listed
Cumene 98-82-8	Not listed	Possible human carcinogen (2B)	Reasonably anticipated to be a human carcinogen	Not listed
1,2,4 Trimethylbenzene 95-63-6	Not Listed	Not Listed	Not Listed	Not Listed
Ethylbenzene 100-41-4	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Not Listed	Not Listed
Cyclohexane 110-82-7	Not Listed	Not Listed	Not Listed	Not Listed
Octane 111-65-9	Not Listed	Not Listed	Not Listed	Not Listed
1,2,3-Trimethylbenzene 526-73-8	Not Listed	Not Listed	Not Listed	Not Listed
Naphthalene 91-20-3	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Reasonably anticipated to be a human carcinogen	Not Listed

**Reproductive toxicity** Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (STOT) - single exposure

Respiratory system. Central nervous system.

Specific Target Organ Toxicity (STOT) - repeated exposure

 ${\bf Blood.}\ {\bf Blood-forming}\ {\bf organs.}\ {\bf Immune}\ {\bf system.}$ 

**Aspiration hazard** May be fatal if swallowed or vomited and enters airways.

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

This product should be considered toxic to aquatic organisms, with the potential to cause long lasting adverse effects in the aquatic environment.

Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			Microorganisms	
Gasoline	72-hr EC50 = 56 mg/l	96-hr LC50 = 11 mg/l	-	48-hr LC50 = 7.6 mg/l
86290-81-5	Algae	Rainbow trout (static)		Daphnia magna
Heptane (mixed isomers)	-	96-hr LC50 = 375 mg/L	-	-

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142-82-5		Tilapia		
Butane (mixed isomers) 106-97-8	-	-	-	-
Pentane (mixed isomers) 78-78-4	-	96-hr LC50 = 3.1 mg/L Rainbow trout	-	48-hr EC50 = >1 - <10 mg/L Daphnia magna
Hexane Isomers (other than n-Hexane) 107-83-5	-	-	<u>-</u>	-
Toluene 108-88-3	72-hr EC50 = 12.5 mg/l Algae	96-hr LC50 <= 10 mg/l Rainbow trout	-	48-hr EC50 = 5.46-9.83 mg/l Daphnia magna 48-hr EC50 = 11.5 mg/l Daphnia magna (Static)
Xylene (mixed isomers) 1330-20-7	72-hr EC50 = 11 mg/l Algae	96-hr LC50 = 8 mg/l Rainbow trout	-	48-hr LC50 = 3.82 mg/l Daphnia magna
Benzene 71-43-2	72-hr EC50 = 29 mg/l Algae	96-hr LC50 = 5.3 mg/l Rainbow trout (flow-through)	-	48-hr EC50 = 8.76-15.6 mg/l Daphnia magna (Static)
n-Hexane 110-54-3	-	96-hr LC50 = 2.5 mg/l Fathead minnow	-	-
Cumene 98-82-8	72-hr EC50 = 2.6 mg/l Algae	96-hr LC50 = 6.04-6.61 mg/l Fathead minnow (Flow-through) 96-hr LC50 = 2.7 mg/l Rainbow trout (semi-static)	-	48-hr EC50 = 7.9-14.1 mg/l Daphnia magna (static)
1,2,4 Trimethylbenzene 95-63-6	-	96-hr LC50 = 7.19-8.28 mg/l Fathead minnow (flow-through)	-	48-hr EC50 = 6.14 mg/L Daphnia magna
Ethylbenzene 100-41-4	72-hr EC50 = 1.7-7.6 mg/l Algae	96-hr LC50 = 4 mg/L Rainbow trout	-	48-hr EC50 = 1-4 mg/L Daphnia magna
Cyclohexane 110-82-7	72-hr EC50 = 500 mg/l Algae	96-hr LC50 = 3.96-5.18 mg/l Fathead minnow	-	48-hr EC50 = 1.7-3.5 mg/L Bay shrimp
Octane 111-65-9	-	-	-	48-hr LC50 = 0.38 mg/l Daphnia magna
1,2,3-Trimethylbenzene 526-73-8	-	96-hr LC50 = 7.72 mg/l Fathead Minnow (flow-through)	-	-
Naphthalene 91-20-3	-	96-hr LC50 = 0.91-2.82 mg/l Rainbow trout (static) 96-hr LC50 = 1.99 mg/l Fathead minnow (static)	-	48-hr LC50 = 1.6 mg/l Daphnia magna

<u>Persistence and degradability</u> Expected to be inherently biodegradable. The presence of ethanol in this product may

impede the biodegradation of benzene, toluene, ethylbenzene and xylene in groundwater,

resulting in elongated plumes of these constituents.

**Bioaccumulation** Has the potential to bioaccumulate.

**Mobility in soil** May partition into air, soil and water.

<u>Other adverse effects</u> No information available.

#### 13. DISPOSAL CONSIDERATIONS

#### **Description of Waste Residues**

This material may be a flammable liquid waste.

#### Safe Handling of Wastes

Handle in accordance with applicable local, state, and federal regulations. Use personal protection measures as required. Use appropriate grounding and bonding practices. Use only non-sparking tools. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. No smoking.

#### **Disposal of Wastes / Methods of Disposal**

The user is responsible for determining if any discarded material is a hazardous waste (40 CFR 262.11). Dispose of in accordance with federal, state and local regulations.

SDS ID NO.: 0127MAR019 Product name: Marathon Petroleum Gasoline - All Grades Page 14 of 22

#### **Methods of Contaminated Packaging Disposal**

Empty containers should be completely drained and then discarded or recycled, if possible. Do not cut, drill, grind or weld on empty containers since explosive residues may be present. Dispose of in accordance with federal, state and local regulations.

#### 14. TRANSPORT INFORMATION

DOT (49 CFR 172.101):

UN Proper Shipping Name:
UN/Identification No:
UN 1203
Class:
3
Packing Group:
II

TDG (Canada):

UN Proper Shipping Name:
UN/Identification No:
UN 1203
Transport Hazard Class(es):
Packing Group:

Gasoline
UN 1203
3
Packing Group:

#### 15. REGULATORY INFORMATION

#### **US Federal Regulatory Information:**

US TSCA Chemical Inventory Section 8(b): This product and/or its components are listed on the TSCA

Chemical Inventory.

#### EPA Superfund Amendment & Reauthorization Act (SARA):

SARA Section 302: This product does not contain any component(s) included on EPA's Extremely Hazardous Substance (EHS) List.

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Gasoline	NA
Heptane (mixed isomers)	NA
Butane (mixed isomers)	NA
Pentane (mixed isomers)	NA
Hexane Isomers (other than n-Hexane)	NA
Toluene	NA
Xylene (mixed isomers)	NA
Benzene	NA
n-Hexane	NA
Cumene	NA
1,2,4 Trimethylbenzene	NA
Ethylbenzene	NA
Cyclohexane	NA
Octane	NA
1,2,3-Trimethylbenzene	NA
Naphthalene	NA

SARA Section 304: This product may contain component(s) identified either as an EHS or a CERCLA

Hazardous substance which in case of a spill or release may be subject to SARA reporting

requirements:

Name	Hazardous Substances RQs
Gasoline	NA
Heptane (mixed isomers)	NA
Butane (mixed isomers)	NA
Pentane (mixed isomers)	NA
Hexane Isomers (other than n-Hexane)	NA

SDS ID NO.: 0127MAR019 Product name: Marathon Petroleum Gasoline - All Grades Page 15 of 22

Toluene	1000 lb final RQ
	454 kg final RQ
Xylene (mixed isomers)	100
Benzene	10
n-Hexane	5000
Cumene	5000
1,2,4 Trimethylbenzene	NA
Ethylbenzene	1000
Cyclohexane	1000
Octane	NA
1,2,3-Trimethylbenzene	NA
Naphthalene	100 lb final RQ
	45.4 kg final RQ

SARA Section 311/312: The following EPA hazard categories apply to this product:

Acute Health Hazard Chronic Health Hazard

Fire Hazard

SARA Section 313:

This product may contain component(s), which if in exceedance of the de minimus threshold, may be subject to the reporting requirements of SARA Title III Section 313 Toxic Release Reporting (Form R).

Name	CERCLA/SARA 313 Emission reporting:
Gasoline	None
Heptane (mixed isomers)	None
Butane (mixed isomers)	None
Pentane (mixed isomers)	None
Hexane Isomers (other than n-Hexane)	None
Toluene	1.0 % de minimis concentration
Xylene (mixed isomers)	1.0 % de minimis concentration
Benzene	0.1 % de minimis concentration
n-Hexane	1.0 % de minimis concentration
Cumene	1.0 % de minimis concentration
1,2,4 Trimethylbenzene	1.0 % de minimis concentration
Ethylbenzene	0.1 % de minimis concentration
Cyclohexane	1.0 % de minimis concentration
Octane None	
1,2,3-Trimethylbenzene	None
Naphthalene	0.1 % de minimis concentration

#### State and Community Right-To-Know Regulations:

The following component(s) of this material are identified on the regulatory lists below:

#### Gasoline

Louisiana Right-To-Know: Not Listed California Proposition 65: Not Listed New Jersey Right-To-Know: SN 0957 Pennsylvania Right-To-Know: Present Massachusetts Right-To Know: Present Florida Substance List: Not Listed Rhode Island Right-To-Know: Not Listed Michigan Critical Materials Register List: Not Listed Massachusetts Extraordinarily Hazardous Substances: Not Listed California - Regulated Carcinogens: Not Listed Pennsylvania RTK - Special Hazardous Not Listed Substances:

New Jersey - Special Hazardous Substances: Carcinogen; Flammable - third degree

New Jersey - Environmental Hazardous SN 0957 TPQ: 10000 lb (Under N.J.A.C. 7:1G, environmental

SDS ID NO.: 0127MAR019 Product name: Marathon Petroleum Gasoline - All Grades Page 16 of 22

Substances List:

hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories)

Illinois - Toxic Air Contaminants: Present

New York - Reporting of Releases Part 597 - Not Listed

List of Hazardous Substances:

Heptane (mixed isomers)

Louisiana Right-To-Know:Not ListedCalifornia Proposition 65:Not ListedNew Jersey Right-To-Know:SN 1339Pennsylvania Right-To-Know:PresentMassachusetts Right-To Know:PresentFlorida Substance List:Not Listed

Rhode Island Right-To-Know: Toxic; Flammable

Michigan Critical Materials Register List:

Massachusetts Extraordinarily Hazardous Substances:

California - Regulated Carcinogens:

Pennsylvania RTK - Special Hazardous

Not Listed

Not Listed

Substances:

New Jersey - Special Hazardous Substances: Flammable - third degree

New Jersey - Environmental Hazardous Not Listed

Substances List:

Illinois - Toxic Air Contaminants: Not Listed New York - Reporting of Releases Part 597 - Not Listed

List of Hazardous Substances:

Butane (mixed isomers)

Louisiana Right-To-Know:

California Proposition 65:

New Jersey Right-To-Know:

Pennsylvania Right-To-Know:

Massachusetts Right-To Know:

Florida Substance List:

Not Listed

Not Listed

Rhode Island Right-To-Know: Toxic; Flammable

Michigan Critical Materials Register List:

Massachusetts Extraordinarily Hazardous Substances:

California - Regulated Carcinogens:

Pennsylvania RTK - Special Hazardous

Not Listed

Not Listed

Not Listed

Substances:

New Jersey - Special Hazardous Substances: Flammable - fourth degree New Jersey - Environmental Hazardous SN 0273 TPQ: 500 lb

Substances List:

Illinois - Toxic Air Contaminants: Not Listed
New York - Reporting of Releases Part 597 - Not Listed

List of Hazardous Substances:

Pentane (mixed isomers)

Louisiana Right-To-Know: Not Listed California Proposition 65: Not Listed New Jersey Right-To-Know: SN 1064 Pennsylvania Right-To-Know: Present Massachusetts Right-To Know: Present Florida Substance List: Not Listed Rhode Island Right-To-Know: Not Listed Michigan Critical Materials Register List: Not Listed Massachusetts Extraordinarily Hazardous Substances: Not Listed California - Regulated Carcinogens: Not Listed

Pennsylvania RTK - Special Hazardous Substances:

New Jersey - Special Hazardous Substances: Flammable - fourth degree New Jersey - Environmental Hazardous SN 1064 TPQ: 500 lb

Substances List:

Illinois - Toxic Air Contaminants: Not Listed
New York - Reporting of Releases Part 597 - Not Listed

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Not Listed

List of Hazardous Substances: Hexane Isomers (other than n-Hexane)

Louisiana Right-To-Know: Not Listed California Proposition 65: Not Listed New Jersey Right-To-Know: SN 1285 Pennsylvania Right-To-Know: Present Massachusetts Right-To Know: Present Florida Substance List: Not Listed Rhode Island Right-To-Know: Not Listed Michigan Critical Materials Register List: Not Listed Massachusetts Extraordinarily Hazardous Substances: Not Listed California - Regulated Carcinogens: Not Listed Pennsylvania RTK - Special Hazardous Not Listed

Substances:

New Jersey - Special Hazardous Substances: Flammable - third degree

New Jersey - Environmental Hazardous Not Listed

Substances List:

Illinois - Toxic Air Contaminants: Not Listed New York - Reporting of Releases Part 597 - Not Listed

List of Hazardous Substances:

Toluene

Louisiana Right-To-Know: Not Listed

California Proposition 65:

Developmental toxicity, initial date 1/1/91
Female reproductive toxicity, initial date 8/7/09

New Jersey Right-To-Know: SN 1866

Pennsylvania Right-To-Know: Environmental hazard

Massachusetts Right-To Know: Present Florida Substance List: Not Listed

Rhode Island Right-To-Know: Toxic (skin); Flammable (skin) Michigan Critical Materials Register List: 100 lb Annual usage threshold

Massachusetts Extraordinarily Hazardous Substances:
California - Regulated Carcinogens:
Pennsylvania RTK - Special Hazardous
Not Listed
Not Listed

Substances:

New Jersey - Special Hazardous Substances: Flammable - third degree; Teratogen

New Jersey - Environmental Hazardous SN 1866 TPQ: 500 lb

Substances List:

Illinois - Toxic Air Contaminants: Present

New York - Reporting of Releases Part 597 - 1000 lb RQ (air); 1 lb RQ (land/water)

List of Hazardous Substances:

Xylene (mixed isomers)

Louisiana Right-To-Know:

California Proposition 65:

Not Listed

Not Listed

Not Listed

Not Jersey Right-To-Know:

SN 2014

Pennsylvania Right-To-Know: Environmental hazard

Massachusetts Right-To Know: Present Florida Substance List: Not Listed

Rhode Island Right-To-Know: Toxic (skin); Flammable (skin)

Michigan Critical Materials Register List: 100 lb Annual usage threshold all isomers

Massachusetts Extraordinarily Hazardous Substances:
California - Regulated Carcinogens:

Pennsylvania RTK - Special Hazardous

Not Listed
Not Listed
Not Listed

Substances:

New Jersey - Special Hazardous Substances: Flammable - third degree New Jersey - Environmental Hazardous SN 2014 TPQ: 500 lb

Substances List:

Illinois - Toxic Air Contaminants: Preser

New York - Reporting of Releases Part 597 - 1000 lb RQ (air); 1 lb RQ (land/water)

List of Hazardous Substances:

Benzene

Louisiana Right-To-Know: Not Listed

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California Proposition 65: Carcinogen, initial date 2/27/87

Developmental toxicity, initial date 12/26/97 Male reproductive toxicity, initial date 12/26/97

New Jersey Right-To-Know: SN 0197

Pennsylvania Right-To-Know: Environmental hazard; Special hazardous substance

Massachusetts Right-To Know: Carcinogen; Extraordinarily hazardous

Florida Substance List: Not Listed

Rhode Island Right-To-Know: Toxic (skin); Flammable (skin); Carcinogen (skin)

Michigan Critical Materials Register List: 100 lb Annual usage threshold

Massachusetts Extraordinarily Hazardous Substances: Carcinogen; Extraordinarily hazardous

California - Regulated Carcinogens: Not Listed Pennsylvania RTK - Special Hazardous Present

Substances:

New Jersey - Special Hazardous Substances: Carcinogen; Flammable - third degree; Mutagen

New Jersey - Environmental Hazardous SN 0197 TPQ: 500 lb

Substances List:

Illinois - Toxic Air Contaminants: Present

New York - Reporting of Releases Part 597 - 10 lb RQ (air); 1 lb RQ (land/water)

List of Hazardous Substances:

n-Hexane

Louisiana Right-To-Know:

California Proposition 65:

New Jersey Right-To-Know:

Pennsylvania Right-To-Know:

Massachusetts Right-To Know:

Florida Substance List:

Not Listed

Not Listed

Not Listed

Rhode Island Right-To-Know: Toxic; Flammable

Michigan Critical Materials Register List:

Massachusetts Extraordinarily Hazardous Substances:

California - Regulated Carcinogens:

Pennsylvania RTK - Special Hazardous

Not Listed

Not Listed

Substances:

New Jersey - Special Hazardous Substances: Flammable - third degree New Jersey - Environmental Hazardous SN 1340 TPQ: 500 lb

Substances List:

Illinois - Toxic Air Contaminants: Present

New York - Reporting of Releases Part 597 - 1 lb RQ (air); 1 lb RQ (land/water)

List of Hazardous Substances:

Cumene

Louisiana Right-To-Know: Not Listed

California Proposition 65: Carcinogen, initial date 4/6/10

New Jersey Right-To-Know: SN 0542

Pennsylvania Right-To-Know: Environmental hazard

Massachusetts Right-To Know: Present Florida Substance List: Not Listed

Rhode Island Right-To-Know: Toxic (skin); Flammable (skin)

Michigan Critical Materials Register List:

Massachusetts Extraordinarily Hazardous Substances:

California - Regulated Carcinogens:

Pennsylvania RTK - Special Hazardous

Not Listed

Not Listed

Not Listed

Substances:

New Jersey - Special Hazardous Substances: Flammable - third degree New Jersey - Environmental Hazardous SN 0542 TPQ: 500 lb

Substances List:

Illinois - Toxic Air Contaminants: Present

New York - Reporting of Releases Part 597 - 5000 lb RQ (air); 1 lb RQ (land/water)

List of Hazardous Substances:

1,2,4 Trimethylbenzene

Louisiana Right-To-Know:

California Proposition 65:

New Jersey Right-To-Know:

Not Listed

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Pennsylvania Right-To-Know: Present Massachusetts Right-To Know: Present Florida Substance List: Not Listed Rhode Island Right-To-Know: Toxic Michigan Critical Materials Register List: Not Listed Massachusetts Extraordinarily Hazardous Substances: Not Listed California - Regulated Carcinogens: Not Listed Pennsylvania RTK - Special Hazardous Not Listed Substances:

New Jersey - Special Hazardous Substances: Not Listed New Jersey - Environmental Hazardous Not Listed

Substances List:

Illinois - Toxic Air Contaminants: Present
New York - Reporting of Releases Part 597 - Not Listed

List of Hazardous Substances:

Ethylbenzene

Louisiana Right-To-Know: Not Listed

California Proposition 65: Carcinogen, initial date 6/11/04

New Jersey Right-To-Know: SN 0851

Pennsylvania Right-To-Know: Environmental hazard

Massachusetts Right-To Know: Present
Florida Substance List: Not Listed

Phodo Island Right To Know:

Rhode Island Right-To-Know: Toxic; Flammable

Michigan Critical Materials Register List:

Massachusetts Extraordinarily Hazardous Substances:

California - Regulated Carcinogens:

Pennsylvania RTK - Special Hazardous

Not Listed

Not Listed

Not Listed

Substances:

New Jersey - Special Hazardous Substances: Carcinogen; flammable - Third degree

New Jersey - Environmental Hazardous SN 0851 TPQ: 500 lb

Substances List:

Illinois - Toxic Air Contaminants: Present

New York - Reporting of Releases Part 597 - 1000 lb RQ (air); 1 lb RQ (land/water)

List of Hazardous Substances:

Cyclohexane

Louisiana Right-To-Know:

California Proposition 65:

New Jersey Right-To-Know:

Not Listed

New Jersey Right-To-Know:

SN 0565

Pennsylvania Right-To-Know: Environmental hazard

Massachusetts Right-To Know:
Florida Substance List:
Rhode Island Right-To-Know:
Michigan Critical Materials Register List:
Massachusetts Extraordinarily Hazardous Substances:
Not Listed
Not Listed

Massachusetts Extraordinarily Hazardous Substances:
California - Regulated Carcinogens:
Pennsylvania RTK - Special Hazardous
Not Listed
Not Listed

Substances:

New Jersey - Special Hazardous Substances: Flammable - third degree New Jersey - Environmental Hazardous SN 0565 TPQ: 500 lb

Substances List:

Illinois - Toxic Air Contaminants: Not Listed

New York - Reporting of Releases Part 597 - 1000 lb RQ (air); 1 lb RQ (land/water)

List of Hazardous Substances:

Octane

Louisiana Right-To-Know:Not ListedCalifornia Proposition 65:Not ListedNew Jersey Right-To-Know:SN 1434Pennsylvania Right-To-Know:PresentMassachusetts Right-To Know:PresentFlorida Substance List:Not Listed

Rhode Island Right-To-Know: Toxic; Flammable

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Michigan Critical Materials Register List:

Massachusetts Extraordinarily Hazardous Substances:

California - Regulated Carcinogens:

Pennsylvania RTK - Special Hazardous

Not Listed

Not Listed

Substances:

New Jersey - Special Hazardous Substances: Flammable - third degree

New Jersey - Environmental Hazardous Not Listed

Substances List:

Illinois - Toxic Air Contaminants: Not Listed New York - Reporting of Releases Part 597 - Not Listed

List of Hazardous Substances:

1,2,3-Trimethylbenzene

Louisiana Right-To-Know: Not Listed California Proposition 65: Not Listed New Jersey Right-To-Know: SN 1929 Pennsylvania Right-To-Know: Present Massachusetts Right-To Know: Present Florida Substance List: Not Listed Rhode Island Right-To-Know: Toxic Michigan Critical Materials Register List: Not Listed Massachusetts Extraordinarily Hazardous Substances: Not Listed California - Regulated Carcinogens: Not Listed Pennsylvania RTK - Special Hazardous Not Listed Substances:

New Jersey - Special Hazardous Substances: Not Listed New Jersey - Environmental Hazardous Not Listed

Substances List:

Illinois - Toxic Air Contaminants: Present
New York - Reporting of Releases Part 597 - Not Listed

List of Hazardous Substances:

Naphthalene

Louisiana Right-To-Know: Not Listed

California Proposition 65: Carcinogen, initial date 4/19/02

New Jersey Right-To-Know: SN 1322 SN 3758

Pennsylvania Right-To-Know: Environmental hazard Present (particulate)

Massachusetts Right-To Know: Present Florida Substance List: Not Listed

Rhode Island Right-To-Know: Toxic; Flammable

Michigan Critical Materials Register List:

Massachusetts Extraordinarily Hazardous Substances:

California - Regulated Carcinogens:

Pennsylvania RTK - Special Hazardous

Not Listed

Not Listed

Substances:

New Jersey - Special Hazardous Substances: Carcinogen

New Jersey - Environmental Hazardous SN 1322 TPQ: 500 lb (Reportable at the de minimis quantity of

Substances List: >0.1%)
Illinois - Toxic Air Contaminants: Present

New York - Reporting of Releases Part 597 - 100 lb RQ (air); 1 lb RQ (land/water)

List of Hazardous Substances:

Canada DSL/NDSL Inventory: This product and/or its components are listed either on the Domestic Substances List (DSL)

or are exempt.

Canadian Regulatory Information: This product has been classified in accordance with the hazard criteria of the Controlled

Products Regulations and the SDS contains all of the information required by those

regulations.

Name	Canada - WHMIS: Classifications of	Canada - WHMIS: Ingredient
	Substances:	Disclosure:
Gasoline	B2,D2A,D2B	0.1%
Heptane (mixed isomers)	B2,D2B	1%

SDS ID NO.: 0127MAR019 Product name: Marathon Petroleum Gasoline - All Grades Page 21 of 22

Butane (mixed isomers)	A,B1	1%
Pentane (mixed isomers)	B2	1%
Hexane Isomers (other than n-Hexane)	B2	1%
Toluene	B2,D2A,D2B	0.1%
Xylene (mixed isomers)	B2,D2A,D2B	m-, o-isomers 1.0%; p-isomer 0.1%
Benzene	B2,D2A,D2B	0.1%
n-Hexane	B2,D2A,D2B	1%
Cumene	B2,D2A	0.1%
1,2,4 Trimethylbenzene	B3,D2B	1%
Ethylbenzene	B2,D2A,D2B	0.1%
Cyclohexane	B2,D2B	1%
Octane	B2,D2B	1%
1,2,3-Trimethylbenzene	B3	1%
Naphthalene	B4,D2A	0.1%



Note: Not applicable.

#### **16. OTHER INFORMATION**

Prepared By Toxicology and Product Safety

**Revision Notes** 

**Revision Date** 03/19/2018 **Previous Publish Date** 03/19/2017

**Revised Sections** The following sections (§) have been updated:

2. HAZARD IDENTIFICATION

3. COMPOSITION/INFORMATION ON INGREDIENTS

4. FIRST AID MEASURES

11. TOXICOLOGICAL INFORMATION

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is intended as guidance for safe handling, use, processing, storage, transportation, accidental release, clean-up and disposal and is not considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SDS ID NO.: 0127MAR019 Product name: Marathon Petroleum Gasoline - All Grades Page 22 of 22

#### YOUR TRIP TO:

1802 6th Ave S, Birmingham, AL, 35233-1932



#### 27 MIN | 15.2 MI 🛱

#### Est. fuel cost: \$1.96

Trip time based on traffic conditions as of 6:06 PM on November 18, 2021. Current Traffic: Moderate



Print a full health report of your car with HUM vehicle diagnostics (800) 906-2501

1. Start out going west on Main St toward Highway 79/AL-79.  Then 0.01 miles	total miles
2. Turn left onto Pinson Valley Pkwy/AL-79. Continue to follow AL-79.  Then 10.91 miles	total miles
3. Merge onto I-20 W/I-59 S.  Then 1.80 miles 12.73 to	total miles
4. Merge onto US-31 S/US-78 E/US-280 E/AL-3 S/AL-4 E via EXIT 126A.  Then 1.48 miles 14.20 to	total miles
5. Take the exit toward US-78/3rd-4th Ave S.  Then 0.12 miles 14.33 to	total miles
6. Turn slight right onto 25th St. Then 0.02 miles 14.35 to	total miles
7. Take the 1st left onto 3rd Ave.  If you reach 2nd Aly you've gone a little too far.	
8. Turn left onto 20th St.	total miles
If you reach 19th St you've gone a little too far.  Then 0.24 miles	total miles
9. Turn right onto 6th Ave. 6th Ave is just past 5th Ave.	
If you reach 7th Ave you've gone a little too far.  Then 0.14 miles	total miles



**10.** 1802 6th Ave S, Birmingham, AL 35233-1932, 1802 6TH AVE S is on the **right**.

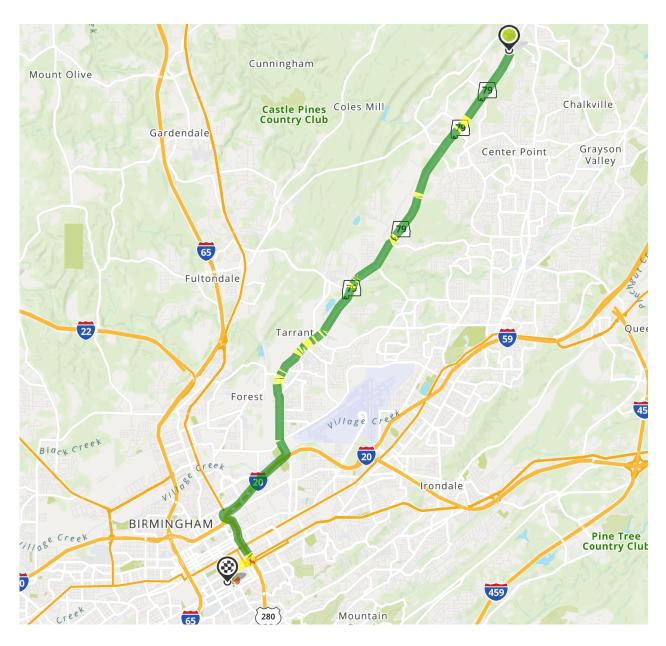
Your destination is just past 19th St.

If you reach 18th St you've gone a little too far.

\_\_\_\_\_\_

🕰 Save to My Maps

Use of directions and maps is subject to our <u>Terms of Use</u>. We don't guarantee accuracy, route conditions or usability. You assume all risk of use.





## **ADEM FORMS**

APPENDIX F

#### **UST RELEASE FACT SHEET**

#### **GENERAL INFORMATION:**

SITE NAME: A&M Quick Mart

ADDRESS: 4567 Pinson Valley Parkway

Pinson, Jefferson County, Alabama

FACILITY I.D. NO.: <u>20994-073-018453</u> UST INCIDENT NO.: <u>UST10-11-03</u>

#### RESULTS OF EXPOSURE ASSESSMENT:

How many private drinking water wells are located within 1,000 ft. of site? 2 How many public water supply wells are located within 1 mile of the site? 0 Have any drinking water supply wells been impacted by contamination from this release? No Is there an imminent threat of contamination to any drinking water wells? {X} Yes { } No Have vapors or contaminated groundwater posed a threat to the public? {X} Yes { } No Are any underground utilities impacted or imminently threatened by the release? {} Yes {X} No Have surface waters been impacted by the release? { } Yes {X} No Is there an imminent threat of contamination to surface waters? { } Yes {X} No What is the type of surrounding population? Commercial/Undevelope

#### CONTAMINATION DESCRIPTION:

Type of contamination at site: {X} Gasoline, { } Diesel, { } Waste Oil
{ } Kerosene, { } Other \_\_\_\_\_\_

Free product present in wells? {X} Yes { } No Maximum thickness measured: 0.08' in MW-4 (1/26/2010)

Maximum TPH concentrations measured in soil: None taken

Maximum BTEX or PAH concentrations measured in groundwater: 34.21 mg/L in MW-12 (7/11/11)

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

#### ADEM GROUNDWATER BRANCH UST SITE CLASSIFICATION SYSTEM CHECKLIST

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

SITE NAME:	A&M Quick Mart		
SITE ADDRESS:	4567 Pinson Valley Parkway		
	Pinson, Jefferson County, Alabama		
FACILITY I.D. NO.:	20994-073-018453		
UST INCIDENT NO.:	UST10-11-03		
OWNER NAME:	Mr. Mike Singh		
OWNER ADDRESS:	7845 Ware Drive		
	Pinson, Alabama 35126		
NAME & ADDRESS OF PERSON			
COMPLETING THIS FORM:	Daniel C. Roe		
	CDG Engineers & Associates, Inc.		
	3 Riverchase Ridge		
	Hoover, Alabama 35244		
	-		

CLASSIFICATION	DESCRIPTION	YES	NO
CLASS A	IMMEDIATE THREAT TO HUMAN HEALTH, HUMAN SAFETY OR SENSITIVE ENVIRONMENTAL RECEPTOR		
A.1	Vapor concentrations at or approaching explosive levels that could cause health effects, are present in a residence or building.		$\boxtimes$
A.2	Vapor concentrations at or approaching explosive levels are present in subsurface utility system(s), but no buildings or residences are impacted.		
CLASS B	IMMEDIATE THREAT TO HUMAN HEALTH, HUMAN SAFETY OR SENSITIVE ENVIRONMENTAL RECEPTOR		
B.1	An active public water supply well, public water supply line or public surface water intake is impacted or immediately threatened.		$\boxtimes$
B.2	An active domestic water supply well, domestic water supply line or domestic surface water intake is impacted or immediately threatened.		
B.3	The release is located within a designated Wellhead Protection Area I.		
CLASS C	IMMEDIATE THREAT TO HUMAN HEALTH, HUMAN SAFETY OR SENSITIVE ENVIRONMENTAL RECEPTOR		
C.1	Ambient vapor/particulate concentrations exceed concentrations of concern from an acute exposure, or safety viewpoint.		$\boxtimes$
C.2	Free product is present on the groundwater, at ground surface, on surface water bodies, in utilities other than water supply lines, or in surface water runoff.		

CLASSIFICATION	DESCRIPTION	YES	NO	
CLASS D	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS			
D.1	There is a potential for explosive levels, or concentrations of vapors that could cause acute effects, to accumulate in a residence or other building.			
D.2	A non-potable water supply well is impacted or immediately threatened.			
D.3	Shallow contaminated surface soils are open to public access, and dwellings, parks, playgrounds, day care centers, schools or similar use facilities are within 500 feet of those soils.			
CLASS E	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS			
E.1	A sensitive habitat or sensitive resources (sport fish, economically important species, threatened and endangered species, etc.) are impacted and affected.			
CLASS F	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS			
F.1	Groundwater is impacted, and a public well is located within 1 mile of the site.			
F.2	Groundwater is impacted and a domestic well is located within 1,000 feet of the site.			
F.3	Contaminated soils and/or groundwater are located within designated Wellhead Protection Areas (Areas II or III).			
CLASS G	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS			
G.1	Contaminated soils and/or groundwater are located within areas vulnerable to contamination from surface sources.			
GLASS H	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS			
H.1	Impacted surface water, storm water or groundwater discharges within 500 feet of a surface water body used for human drinking water, whole body water-contact sports, or habitat to a protected or listed endangered plant and animal species.			
CLASS I	LONG TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS			
1.1.	Site has contaminated soils and/or groundwater but does not meet any of the above-mentioned criteria.			
ADDITIONAL COMME	INTS:	I .	<u>I</u>	
Complete the classification evaluation questions listed above. Upon completion, determine the highest rank of the site (A.1 is the highest rank) based on the statements answered with a yes.				
Enter the determined classification ranking: F.2				

ADEM GROUNDWATER BRANCH SITE CLASSIFICATION CHECKLIST (5/8/95)



# TASKS PERFORMANCE SUMMARY

APPENDIX G

#### **TASK PERFORMANCE SUMMARY**

# CAP Development Report (CP-35) A&M Quick Mart 4567 Pinson Valley Parkway Pinson, Jefferson County, Alabama

Task Completed by Personnel/Title:	Michelle Grantham, SPM	Jessica Henson, PE	Daniel Roe, PM	Mike Kotar, PM	Ray Hollinghead, Drafter	Britney Reed, Admin	Karen Moore, Admin.
Project Management			Х				Х
Work Plan Preparation/Review							
Cost Proposal Preparation/Review	Х		Х				Х
Field Work							
Data Interpretation/Tabulations							
Drafting					Х		
Report Preparation/Review		Х		Х		Х	
Payment Request Preparation/Review	Х		Х				Х

#### 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