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March 15, 2011

Ms. Susan Bull Oil Control Program Maryland Department of the Environment 1800 Washington Blvd, Suite 620 Baltimore, Maryland 21230

RE: **CORRECTIVE ACTION PLAN** Monrovia BP/Former Green Valley Citgo 11791 Fingerboard Road Monrovia, Maryland OCP Case #2005-0834-FR

Dear Ms. Bull:

Groundwater & Environmental Services, Inc. (GES), on behalf of Carroll Independent Fuels Company (Carroll), respectfully submits this Corrective Action Plan (CAP) for the Monrovia BP/Former Green Valley Citgo Station located at 11791 Fingerboard Road in Monrovia, Maryland. This CAP is being submitted to fulfill Carroll's compliance with the Maryland Department of the Environment – Oil Control Program's directive letter dated June 17, 2010.

GES appreciates the continued guidance of the MDE on this project. If you have any questions or would like additional information please contact the undersigned at 800-220-3606, extension 3717 or 3706, respectively, or Herb Meade at 410-261-5450.

Sincerely,

Gregory Řeichart Project Manager

Enclosure

FM.

Steven M. Slatnick Sr. Project Manager Site Operations Manager

c: Herb Meade – Carroll Independent Fuels Company Susan Bull – MDE (additional paper copy and electronic copy on CD) Jim Richmond – MDE George Keller – Frederick County Health Department Samir Andrawos – Timbercrest Limited Partnership Jennifer Andrawos – Timbercrest Limited Partnership Dwight W. Stone – Whiteford Taylor Preston Robert S. Bassman – Bassman, Mitchell & Alfano, Chtd. M. Albert Figinski – Law Offices of Peter Angelos File – GES, MD

Corrective Action Plan

Monrovia BP/Former Green Valley Citgo MDE Case #2005-0834-FR MDE Facility ID #11836 11791 Fingerboard Road

Monrovia, Maryland

Prepared for:

Carroll Independent Fuels Company 1601 West 41st Street Baltimore, Maryland 21211

Prepared by:



GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

2142 Priest Bridge Court, Suite 1 Crofton, Maryland 21114

March 15, 2011

CORRECTIVE ACTION PLAN

Monrovia BP/Former Green Valley Citgo MDE Case #2005-0834-FR MDE Facility ID #11836 11791 Fingerboard Road Monrovia, Maryland

Prepared for:

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March 15, 2011

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1.0 INTRODUCTION / BACKGROUND

Groundwater & Environmental Services, Inc. (GES), on behalf of Carroll Independent Fuels Company (Carroll), respectfully submits this Corrective Action Plan (CAP) for the Monrovia BP/Former Green Valley Citgo Station located at 11791 Fingerboard Road in Monrovia, Maryland (the Site). This CAP is being submitted to fulfill Carroll's compliance with the Maryland Department of the Environment – Oil Control Program's (MDE-OCP) directive letter dated June 17, 2010. A copy of this letter is attached in **Appendix A – MDE Correspondence**.

In January 2005, elevated levels of petroleum vapors were detected in the vicinity of the underground storage tank (UST) field during an MDE OCP compliance inspection. The MDE requested testing be performed, and OCP Case #2005-0834-FR was assigned to the site. A soil boring program was conducted at the Site in September 2005, and in February 2006, four bedrock monitoring wells (MW-1 through MW-4) were installed. In March 2006, methyl tertiary butyl ether (MTBE) was detected in the water supply of the Green Valley Plaza (GVP), the shopping center that houses the station building. In April 2007 an initial round of samples was collected from select off-site residential potable wells and the supply wells for the Green Valley Shopping Center (GVSC), a commercial plaza adjacent to the Site.

At the request of the MDE, an *Interim Corrective Action Plan* (ICAP) was submitted by Environmental Alliance (EA) proposing soil-vapor extraction (SVE) feasibility testing (EA, April 25, 2007). A *Drinking Water Well Survey* of the surrounding area was submitted (EA, April 30, 2007), as well as a *Sampling Results and Work Plan*, detailing plans for continued potable well sampling (EA, April 25, 2007). Between April and June 2007, granular activated carbon (GAC) point-of-entry treatment (POET) systems were installed at six area residences where MTBE was detected above the MDE's action level of 20 micrograms per liter (μ g/L). In May 2007, EA submitted a *Site Conceptual Model* (SCM) to the MDE.

In June 2007, SVE feasibility testing was performed on-site. Subsequently, four shallow groundwater monitoring wells (MW-5 through MW-8) were installed in May 2008. Down-hole geophysical testing of two of the GVP supply wells was conducted in July 2007 and on monitoring wells MW-6, MW-7 and MW-8 in June 2008. In July 2008, the UST system was removed, approximately 523.5 tons of petroleum-impacted soil was removed from the Site, and new USTs were installed in the same location as the previously-existing UST field. SVE piping was installed and connected to the tank field monitoring wells (EA, August 22, 2008). In September 2008, a POET system was installed on the GVP water supply. Additional SVE feasibility testing was conducted on-site in January 2009.

In March 2009, five additional shallow monitoring wells (MW-9 through MW-13) were installed, and in September 2009, deep monitoring wells MW-14D and MW-15D and shallow monitoring wells MW-16 and MW-17 were installed. In October 2009, pumping tests were performed on-site, including a step-drawdown test and subsequent 72-hour pumping test on monitoring well MW-15D. Geophysical testing of monitoring wells MW-14D, MW-16 and MW-17 and packer testing on monitoring well MW-14D were performed in November 2009. On June 17, 2010, the MDE issued *Request for Corrective Action Plan*, requiring the submission of a CAP designed to capture, contain and reduce the migration of petroleum contamination. In July 2010, monitoring well MW-14S was installed on-site.

In September 2010, GES submitted *Pilot Scale Study Work Plan* to the MDE, proposing the installation of three nested injection wells, a nested observation well, and a vapor extraction well; and an in-situ



chemical oxidation (ISCO) pilot test involving the injection of hydrogen peroxide and ozone at three subsurface intervals during a two-day pilot test. The MDE issued *Work Plan Approval* on November 18, 2010, approving the ISCO pilot test with some minor modifications. A copy of the *Work Plan Approval* is included in **Appendix A**. In November 2010, nested monitoring wells MW-18S and MW-18D, vapor extraction well VE-1 and injection wells IW-1S/D, IW-2S/D and IW-3S/D were installed onsite, and ISCO pilot testing was conducted. The findings of this testing are presented in Section 5.2.5. On December 1, 2010, Carroll informed the MDE of the results of the pilot testing via email, and included a proposed plan to redevelop the injection wells by introducing air. The MDE approved this plan via email. On December 8, 2010, injection wells IW-1S/D, IW-2S/D and IW-3S/D were re-developed. Slug testing was conducted on monitoring wells MW-18S and MW-18D on December 15, 2010.

The goal of this CAP is to implement remedial efforts to address groundwater impact in the area south of the former UST source area, within the shopping center property. The CAP is proposed to reduce contamination impact within the immediate source area and thus reducing contamination levels migrating in the downgradient direction. The approved CAP will continue to be evaluated as needed to further address groundwater impacts downgradient based on the observed success remediating the area currently demonstrating the highest MTBE concentrations. This CAP will propose the implementation of an ISCO remediation system using three injection wells. Additional testing, investigation and/or remedial efforts will be driven by the results of the proposed ISCO system. This CAP documents the following:

- Site history;
- Presentation of existing Site characterization data;
- Installation of injection wells IW-1S/D, IW-2S/D and IW-3S/D, nested monitoring wells MW-18S and MW-18D, and vapor extraction well VE-1;
- Results of the ISCO pilot test conducted in November 2010; and
- Presentation of potential remedial actions suitable to existing Site conditions.

2.0 FACILITY INFORMATION

2.1 Site and Surrounding Area Description

The Site is located in the northeastern section of a 5.2-acre parcel southwest of the intersection of Fingerboard Road and Lynn Burke Road in Monrovia, Frederick County, Maryland. The Site is currently an active BP Station attached to the end of an L-shaped shopping plaza, known as the Green Valley Plaza (GVP), and is located in a mixed commercial and residential area. The Site consists of landscaped areas, a paved parking lot, a convenience store, and a canopy housing five multi-product dispenser (MPD) islands. The current underground storage tank (UST) system is comprised of two 10,000-gallon gasoline USTs, one 10,000-gallon diesel UST and one 4,000-gallon diesel UST in a common tank field. The tanks are constructed of composite steel and were installed in August 2008. A **Site Map** illustrating the tank field and dispenser island locations is included as **Figure 1**.

A dry cleaning establishment (Green Valley Cleaners) conducting on-site dry-cleaning is located within GVP. Another commercial property, GVSC, is located adjacent to the Site to the east, which consists of one shopping plaza building and three ancillary buildings including an Allstate Insurance office, a 7-11 convenience store and an auto repair facility. GVP is bordered to the north by Fingerboard Road (Maryland Route 80) followed by residential properties, to the west by Greenridge Drive followed by residential properties, and to the south by Rosewood Road followed by residential properties.



2.1.1 <u>Sensitive Receptors</u>

The Site is located in a High Risk Groundwater Use Area (HRGUA) served by potable supply wells. GVP is served by five non-transient, non-community supply wells, and GVSC is served by three non-transient, non-community supply wells. All residences in the area are served by private potable supply wells. The locations of area potable wells in the study area are illustrated on **Figure 2, Local Area Map**.

The nearest surface water body is Fahrney Branch, located approximately 2,400 feet to the south. There is a child care facility known as Guardian Angel Child Care located in GVP. The only on-site basement is a room beneath GVP housing pump equipment for the drinking water supply wells.

2.1.2 <u>Utilities</u>

Although not all utilities have been field-verified, on-site below grade utilities include electric, storm sewer, and water lines running from potable wells to the GVP building. Overhead electrical and telephone lines are located along the north side of Fingerboard Road and extend onto the Site. The storm sewer lines are shown on the **Site Map** attached as **Figure 1**.

2.2 Chronology of Events

A history of the Site is included in ongoing Quarterly Monitoring Reports and is attached as Appendix B.

2.3 Topography, Geology and Hydrogeology

The following information has largely been excerpted from previous reports prepared for the Site by EA.

The Site is located approximately 660 feet above mean sea level (MSL) at the top of a ridge. The Site itself is relatively flat, but the surrounding land slopes toward the south, west and east away from GVP.

The Site is located in the Lowland Section of the Piedmont Plateau physiographic province. It is located in an area where the Urbana Formation, which is described as dark gray to green phyllite, metasiltstone, and quartzite, with thin lenses of impure marble and calcareous phyllite, the Sams Creek Metabasalt, which consisting of grayish-green, massive to schistose metabasalt, the Ijamville Formation, consisting of blue, green, or purple phyllite and phyllitic slate, with interbedded metasiltstone and metagraywacke, and the Marburg Schist, consisting of bluish-gray to silvery-green, fine-grained schist, meet (Maryland Geological Survey, 1968). Red to orange-brown weathered shale, micaceous saprolite or silt has been encountered at depths of approximately 1 to 6 feet below ground (fbg) across the Site during well and soil boring installation events and UST removal activities. Gray, brown and greenish micaceous phyllite consolidated bedrock has been encountered at depths ranging from 27 to 37 fbg during well installation events. Boring and well logs for all soil borings and monitoring, vapor extraction and injection wells are provided in **Appendix C**.

Groundwater has not been encountered in the unconsolidated sediments overlying the bedrock formation. Historically, groundwater at the Site is found at depths of approximately 50 fbg in bedrock. The primary pathway for groundwater through the bedrock is secondary permeability features (fractures, bedding plane partings, etc.). Structural analysis of bedrock features performed by EA suggests the mean orientation of bedrock fabric planes strikes approximately N31°E and dips steeply (58°) to the southeast

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(EA, March 15, 2010). Additional details related to regional and local geology can be found in EA's *Hydrogeologic Investigation Update and Work Plan – June 5, 2009.*

2.4 Monitoring Well Data

Eighteen monitoring wells (MW-1, MW-2, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14S, MW-14D, MW-15D, MW-16, MW-17, and MW-18S/MW-18D), two soil vapor monitoring points (SV-1 and SV-2), one soil vapor extraction point (VE-1) and six injection wells (IW-1S/IW-1D, IW-2S/IW-2D and IW-3S/IW-3D) are located on the Site. Monitoring wells MW-18S and MW-18D are nested in one borehole, and each injection well pair is nested in a single borehole. One monitoring well (MW-3), one soil vapor monitoring point (SV-3), and two tank field monitoring wells (TF-1 and TF-2) on the Site have been abandoned. Boring and well construction logs for all monitoring wells, soil vapor monitoring points, soil vapor extraction wells and injection wells are included as **Appendix C**. The locations of these wells are shown on the **Site Map** attached as **Figure 1**. Well construction details for the wells are included in **Table 1 – Monitoring Well Construction Details Table**.

2.5 Potable Supply Wells

On March 28, 2006, MTBE was detected at a concentration of $14 \mu g/L$ in a sample collected from the blended influent of two of the on-site drinking water wells supplying GVP. On September 19, 2006, MTBE was detected in a blended influent sample from GVP's supply wells at a concentration of $42 \mu g/L$, above the MDE's action level of $20 \mu g/L$. The MDE required the initiation of quarterly sampling of the GVP and GVSC supply wells, and an initial round of sampling of area residential potable wells in a directive letter dated January 22, 2007. The private potable wells of 116 area residences were sampled in an initial round of sampling conducted between March and October 2007. Of these, 40 area potable wells were put on a regular sampling schedule. Currently, the potable wells of fourteen area residences are sampled on a quarterly basis and those of an additional eight area residences are sampled on a semiannual basis.

GAC POET systems have been installed on the blended influent of GVP's five potable wells and six area residences at which MTBE has been detected above the MDE action level. Quarterly sampling and system maintenance is currently conducted at the six residences with POET systems and the GVP POET system. Two of the GVP supply wells and the three GVSC supply wells are sampled on a quarterly basis. The remaining three GVP supply wells, which are located upgradient of the UST field, are sampled on an annual basis. This sampling schedule and the most recent sampling results were submitted to the MDE-OCP in *Fourth Quarter 2010 Monitoring Report, Monrovia BP/Former Green Valley Citgo – February 14, 2011.*

3.0 ANALYTICAL DATA

Analytical data have been collected for both subsurface soil and groundwater. The following sections summarize historical and current soil and groundwater quality.



3.1 Soil Sampling Results

A total of 44 soil samples have been collected for laboratory analysis in several phases during soil boring investigations, installations of soil vapor monitoring points, and UST system replacement activities. A **Historical Soil Analytical Data Summary** is included as **Table 2**. Soil samples were collected during the following activities:

- Ten soil samples were collected when ten soil borings (GP-1 through GP-10) were advanced on September 14-15, 2005 as part of the initial subsurface investigation.
- Six soil samples were collected when soil vapor monitoring points SV-1, SV-2 and SV-3 were installed around the tank field on May 31 June 1, 2007 in preparation for SVE testing. Soil boring SB-1 was also advanced on June 1, 2007, and one soil sample was collected.
- Twenty-seven (27) soil samples were collected between July 16 and July 28, 2008 when USTs, dispensers and product lines were removed from the Site.

Soil samples collected during soil boring activities and soil vapor monitoring point installation were screened in the field using a photoionization detector (PID) to detect volatile organic compounds (VOCs). During the 2005 soil boring event, the soil sample from the interval with the highest PID response at each boring was submitted for laboratory analysis. PID readings during the 2005 soil boring event ranged from 0.0 parts per million (ppm) to 1,428 ppm (GP-3, 8-11 fbg). During the 2007 vapor monitoring point installation and soil boring event, one sample was submitted from soil vapor monitoring point SV-1, three samples were submitted from soil vapor monitoring point SV-2, two samples were submitted from soil vapor monitoring point SV-3, and one sample was submitted from soil boring SB-1. PID responses ranged from 0.0 ppm to 55.0 ppm (SV-3, 15-17 fbg).

During UST system removal in 2008, one soil sample was collected from beneath each dispenser island at a depth of approximately 4 fbg, one sample was collected from beneath piping runs at a depth of approximately 4 fbg at 20-foot intervals, and soil samples were collected from beneath the USTs and the sidewalls of the UST excavation. Elevated PID responses in the field indicated petroleum impact beneath the product piping between the dispensers. Soil in this area was overexcavated to a depth at which elevated PID readings were no longer observed. Confirmation soil samples were collected at the deepest extent of the excavation in this area (EA, August 22, 2008).

None of the soil samples collected at the Site during the three subsurface events noted above contained any concentrations of compounds of concern (COCs) that exceeded the MDE's Generic Numeric Non-Residential Cleanup Standard for Soil (June 2008). Benzene, toluene, and ethylbenzene were not detected in any of the soil samples collected. The highest concentration of total xylenes detected in soil at the Site was 4 micrograms per kilogram (μ g/kg) in the sample collected from soil boring GP-8 at a depth of 14 to 16 fbg on September 15, 2005. The highest concentration of MTBE and tert-butyl alcohol (TBA) detected in soil at the Site were 160 μ g/kg and 4,800 μ g/kg, respectively, in the sample collected from soil vapor point SV-3 at a depth of 10 to 12 fbg on June 1, 2007. The highest concentration of total petroleum hydrocarbons – diesel range organics (TPH-DRO) detected in soil at the Site was 110 milligrams per kilogram (mg/kg) in the sample collected from soil boring GP-1 at a depth of 11 to 14 fbg on September 14, 2005. The highest concentration of TPH – gasoline range organics (GRO) detected in soil at the Site was 0.7 mg/kg in the sample collected from the location PIPE-2 during UST removal activities on July 16, 2008. These results suggest there is no existing source for groundwater impacts in the soil horizons sampled.



3.2 Groundwater Sampling Results

Groundwater samples have been collected from monitoring wells MW-1 through MW-4 since February 2006, and on a regular quarterly basis since August 2008. Monitoring well MW-3 was abandoned in May 2008 prior to UST system removal. Additional monitoring wells have been added to the quarterly sampling schedule as they have been installed. In conjunction with the groundwater sampling events, groundwater elevation data for all wells has been collected on a quarterly basis. Groundwater samples have historically been analyzed for VOCs plus fuel oxygenates via Environmental Protection Agency (EPA) Method 8260, and for TPH-GRO and TPH-DRO via EPA Method 8015B.

On October 13, 2010, GES submitted *Proposed Groundwater and Potable Well Sampling Program* to the MDE, proposing low-flow sampling methods and the collection of field measurements to replace the current purge-and-sample method for groundwater sampling. Field method water quality indicator parameters to be recorded during sampling to demonstrate appropriate geochemical stabilization criteria include pH, specific conductance (SpC), temperature, oxidation-reduction potential (ORP) and dissolved oxygen (DO). The MDE approved this change to the sampling program in correspondence dated November 18, 2010, attached in **Appendix A**. The latest groundwater sampling event was conducted on November 23, December 8, and December 15, 2010. Historic groundwater analytical and gauging data can be found in **Table 3 – Groundwater Analytical Data Summary**, and field parameters recorded during low-flow sampling can be found in **Table 4 – Low Flow Sampling Field Parameter Summary**. Groundwater contours were generated from gauging data collected on December 8, 2010 and are presented on **Figure 3 – Groundwater Contour Map**. Analytical data from the November 23, 2010 and December 8, 2010 groundwater sampling is presented on **Figure 4 – Groundwater Analytical Map**.

Elevated concentrations of dissolved MTBE and TPH-GRO have historically been the primary COCs at the Site. The highest concentrations of dissolved MTBE have been observed in monitoring wells MW-3 (prior to its abandonment), MW-7, MW-10, MW-13, MW-14D, MW-15D, and MW-17 with the highest historic concentration of 86,000 µg/L observed in monitoring well MW-7 on June 12, 2008. During the most recent groundwater sampling event in the fourth quarter of 2010, the highest concentration of dissolved MTBE was observed in injection well IW-2D at a concentration of 38,900 µg/L on December 15, 2010. The highest concentrations of TPH-GRO have been observed in monitoring wells MW-3 (prior to its abandonment), MW-7, MW-13, MW-17, MW-18S and MW-18D with the highest historic concentration of 130,000 µg/L observed in monitoring well MW-7 on June 12, 2008. During the most recent groundwater sampling event in the fourth quarter of 2010, the highest concentration of TPH-GRO was observed in monitoring well MW-7 at a concentration of 1,190 µg/L on November 23, 2010. Elevated concentrations of dissolved benzene, toluene, ethylbenzene and xylenes (BTEX) have not been historically observed in many Site monitoring wells. During the fourth quarter 2010 groundwater sampling event, dissolved BTEX was not detected in any Site monitoring wells. The highest historic dissolved benzene concentrations at the site had been observed in monitoring well MW-3, prior to its abandonment, at 77 μ g/L.

3.3 Potable Supply Well Sampling Results

The highest MTBE concentration observed at GVP was 970 μ g/L in well FR-94-1233 on January 23, 2008. During the most recent sampling of the GVP wells during the fourth quarter 2010, the highest MTBE concentration observed was 2.96 μ g/L in the blended influent of all five wells to the POET system. The highest MTBE concentration observed in an individual GVP potable well during the fourth quarter 2010 was 1.52 μ g/L in well FR-94-1281. The highest historic MTBE concentration in an area

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residential potable well was observed in the well at 3997 Farm Road, at a concentration of 3,680 µg/L on April 8, 2009. The highest MTBE concentration observed during the fourth quarter 2010 in a residential potable well was 2,640 µg/L in the well at 3990 Farm Road on December 8, 2010. Dissolved MTBE has not historically been detected in any of the GVSC supply wells above the MDE's action level. Analytical results of the POET system sampling, GVSC supply well sampling, and residential sampling can be found in Table 5 – Green Valley Plaza Supply Well and POET System Analytical Data Summary, Table 6 – Green Valley Shopping Center Supply Well Analytical Data Summary, and Table 7 – Residential Potable Well Analytical Data Summary.

4.0 HISTORIC REMEDIAL ACTIVITIES

In July 2008, the UST system, including USTs, dispenser islands and product lines, was removed. Soil samples were collected beneath the dispenser islands, beneath product piping, and at the bottom and sides of the UST excavation. Elevated PID readings were observed in soil beneath piping between the dispensers under the canopy. Impacted soil in this area was over-excavated to an approximate depth of 8 fbg, until elevated PID responses were no longer observed. Approximately 1,100 tons of soil, approximately 523.5 tons of which were identified as petroleum-impacted, were excavated and removed from the Site for off-site treatment.

5.0 CORRECTIVE ACTION

The media of concern at the site is groundwater within the bedrock aquifer. MTBE is the primary COC and is present in groundwater from the area south of the UST field extending beneath the shopping center building toward the residential area across Rosewood Road. The potable groundwater in this residential area is a sensitive receptor and the driver for site remediation. Activated carbon POET systems have been installed at six residences as noted previously. The historic sampling data indicates the POET systems are functioning properly and are able to provide water that meets MDE standards to the properties served.

5.1 Remedial Technology Screening

Various dissolved-phase remediation technologies were screened to determine the most appropriate method to remediate the dissolved-phase hydrocarbon compounds that are present in the subsurface. Remedial technologies selected for consideration were based on the results of the site characterization activities completed to date. The potential remedial technologies and site-specific factors associated with each are discussed below.

In order to identify the appropriate remedial technologies to test, the following Site characteristics were considered:

- Site soil boring information and monitoring well logs indicate that groundwater is present within competent, fractured bedrock.
- Light non-aqueous phase liquids (LNAPL) are not present at this Site.
- Soil is not a media of concern.
- The depth to water at the Site typically ranges from 35 to 65 fbg.



- Dissolved MTBE concentrations have historically been highest in monitoring wells MW-7, MW-10, MW-13, MW-14D, MW-15D, and MW-17.
- Sensitive receptors (i.e., potable wells) are present south of the Site, and MTBE has been detected above the MDE action level of 20 μ g/L in six of these potable wells.

5.1.1 <u>Monitored Natural Attenuation</u>

Natural attenuation relies upon natural subsurface processes to reduce contaminant concentrations to acceptable levels. Monitored natural attenuation (MNA) could be considered a viable remedial alternative due to the installation of properly functioning POET systems on all impacted drinking water receptors and the reduction of impacts to the commercial water supply wells noted over time. However, it is not desirable to only utilize MNA due to the extended time period for MNA to be effective. Natural attenuation will be considered following contaminant concentration reduction by an aggressive, active remediation technology as proposed later within this document.

5.1.2 <u>Total Phase Extraction</u>

Total Phase Extraction (TPE) utilizes a high vacuum blower to extract groundwater and soil vapor simultaneously through the same extraction pipe. High vacuum blowers are capable of high vacuum levels [approaching 30 inches of mercury (in. Hg)] and are most effective in lower-yield formations. However, TPE systems are generally limited to sites where the depth to water is no greater than 30 feet. Since impacted groundwater is present below depths of 30 feet, TPE is not considered a viable technology. Furthermore, concerns over water quantity availability to the GVP, GVSC and downgradient private water supply wells limit the reasonable use of TPE.

5.1.3 <u>Dual Phase Extraction/Vacuum-Enhanced Groundwater Extraction</u>

Dual Phase Extraction (DPE)/Vacuum-Enhanced Groundwater Extraction (VEGE) combines both SVE and fluids extraction remedial technologies. It is similar to TPE except that groundwater and vapors are conveyed from the recovery well to the treatment equipment in separate pipes. DPE/VEGE systems can recover higher flow rates of vapors and groundwater than can TPE systems and are not limited by the depth to water. The application of a vacuum to an extraction well creates pressure gradients that enhance total fluid recovery and also serves to remediate impacts in unsaturated and previously-saturated (i.e., prior to fluids recovery) zones. Conventional DPE/VEGE extraction systems typically use pneumatic or electric submersible pumps to extract fluids from the well and a surface blower to extract soil vapors. Soil vapors and fluids are recovered independently, and a range of vacuums can be applied, depending on the formation, to optimize fluid and vapor recovery. DPE/VEGE is considered a potentially viable technology. However, the low affinity for MTBE to adsorb to soils may render DPE/VEGE non-optional. Furthermore, concerns over water quantity availability to the GVP, GVSC and downgradient private supply water wells limit the reasonable use of DPE/VEGE.

5.1.4 <u>Air Sparge/Soil Vapor Extraction</u>

Air Sparge/Soil Vapor Extraction (AS/SVE) involves the delivery of compressed air into wells that are screened below the water table. Air bubbles travel upward and outward in the aquifer, resulting in the mass transfer of adsorbed and dissolved VOCs into the vapor stream. Typically, the volatilized compounds are removed from the vadose zone by an SVE system. Air sparging also enhances aerobic



biodegradation due to increased dissolved oxygen levels that are typically observed during air sparging. Air sparging is most effective at sites with volatile contaminants and a permeable aquifer matrix. An AS/SVE system is considered a viable remedial alternative to remediate the groundwater and soil at this Site. However, consideration must be given to the preferential air flow pathways characteristic of fractured bedrock aquifer systems.

5.1.5 In-Situ Chemical Oxidation via Ozone and Hydrogen Peroxide

ISCO via Ozone and Hydrogen Peroxide Injection uses an injection pump to sparge ozone and dispense a known volume and concentration of hydrogen peroxide into the subsurface through injection points. During the process, direct oxidation of COCs occurs via generation and distribution of ozone and hydroxyl radicals (-OH), which are powerful oxidizers. The oxidation process breaks down petroleum hydrocarbons. Low pressure air injection can be utilized in conjunction with hydrogen peroxide and ozone injection to aid in dispersing the chemicals and provide additional oxygen for enhanced biodegradation of hydrocarbons. This technology would require the installation of dedicated, specialized injection wells. ISCO can be applied at lower permeability sites, but may require additional injection points due to a smaller effective radius-of-influence (ROI). Hydrogen peroxide and ozone addition is viable at sites with moderate hydrocarbon impact in the groundwater such as present at this site. Therefore, ISCO is deemed a potentially appropriate remediation technology.

5.2 Feasibility Testing Activities and Results

To date, six feasibility tests have been conducted at the Site to assess the appropriateness of various remediation technologies. An SVE feasibility test was conducted in June 2007 by EA, a second SVE feasibility test was conducted in January 2009 by EA, a groundwater extraction feasibility test was conducted by EA in October 2009, a groundwater infiltration (percolation) test was conducted by EA in December 2009, and an ISCO pilot test was conducted in November and December 2010 by GES. The test procedures and results are presented below.

5.2.1 Soil Vapor Extraction Feasibility Test (June 2007)

An SVE test was conducted on June 21 and 22, 2007 to evaluate vapor recovery around the UST field. The procedures and results are summarized herein and were reported in detail in the *Quarterly Sampling Report* (EA, October 15, 2007). Three 2-inch diameter soil vapor monitoring points (SV-1, SV-2, and SV-3) were installed via hollow-stem auger prior to the test as monitoring and extraction points for the SVE testing. The soil vapor monitoring points were installed to the top of bedrock (30 to 35 fbg) and screened from 11 fbg to bottom.

SVE feasibility testing was conducted on June 21, 2007 using tank field well TF-1 as the extraction point. Vacuum was applied at seven intervals at tank field well TF-1, ranging from 0.12 to 13 inches of water (i.w.), during the approximately 5.5-hour test. Recovered vapor flow rates ranged from approximately 4 to 164 standard cubic feet per minute (scfm) and increased with applied vacuum. Extracted vapors were field-screened with a PID during the test. PID readings decreased during the test from 1,100 ppm during the first step (lowest applied vacuum) to 204 ppm during the last step (highest applied vacuum). The greatest mass recovery occurred during the fourth vacuum step (4 i.w. and 87 scfm) and was reported as 20.9 pounds per day (lbs/day).



Vacuum response of greater than 0.1 i.w. was observed at all six observation points (MW-1, MW-3, SV-1, SV-2, SV-3, and TF-2). Using 0.1 i.w. as the minimum vacuum response for influence, the vacuum radius-of-influence (ROI) extends at least 82 feet (0.12 i.w., observed at monitoring well MW-1). Observed groundwater mounding at the observation wells was negligible.

On June 22, 2007, additional SVE tests were conducted at monitoring well MW-3 and soil vapor point SV-3 in a similar manner. Vacuum was applied at five intervals at monitoring well MW-1, ranging from 4 to 36 i.w., during the approximately 3.5-hour test. PID readings remained relatively consistent (slightly increasing) during the test (552 to 656 ppm). Extracted vapor flow rates ranged from approximately 0.2 to 3 scfm and increased with applied vacuum. The greatest mass recovery occurred during the final vacuum step (36 i.w. and 3 scfm) and was reported as 0.6 lbs/day.

Vacuum response of greater than 0.1 i.w. was observed at all six observation points (MW-1, SV-1, SV-2, SV-3, TF-1, and TF-2). The vacuum ROI extends at least 96 feet (0.12 i.w., observed at monitoring well MW-1). Groundwater mounding was observed at monitoring well MW-1 (0.1 foot); all other observation points were dry.

Five vacuum intervals were then applied at soil vapor point SV-3, ranging from 4 to 30 i.w. during an approximately 2.5-hour test. PID readings were consistent and slightly decreased during the test from 535 to 415 ppm. Extracted vapor flow rates ranged from approximately 1 to 15 scfm and increased with applied vacuum. The greatest mass recovery occurred during the final vacuum step (30 i.w. and 15 scfm) and was reported as approximately 2 lbs/day.

Vacuum response of greater than 0.1 i.w. was observed at all six observation points (MW-1, MW-3, SV-1, SV-2, TF-1, and TF-2). The vacuum ROI extends at least 55 feet (0.26 i.w., observed at monitoring well MW-1). Groundwater mounding was observed at monitoring well MW-1 (0.2 feet) and monitoring well MW-3 (0.67 foot). The mounding observed during this test includes residual effects from the SVE test at monitoring well MW-3.

Estimated mass recoveries during SVE testing are based on field PID readings as calculated by EA. Laboratory analytical was collected but equipment issues occurred at the laboratory, invalidating the analytical data.

5.2.2 Soil Vapor Extraction Feasibility Test (January 2009)

In July 2008, the existing UST system was removed, and approximately 523.5 tons of impacted soil were removed for off-site disposal. During installation of new USTs (in the same location as the removed USTs), subgrade piping was installed to allow vapor extraction from six tank field wells (TF-3 through TF-8) from a central location. A second SVE test at two locations was conducted on January 16, 2009 to evaluate vapor recovery around the UST field subsequent to the UST removal and replacement. The purpose was to evaluate the efficacy of the soil removal action by comparing these results to the June 2007 SVE feasibility test results. Vacuum steps were selected based on the June 2007 results. The procedures and results are summarized herein and were reported in detail in the *Soil Vapor Extraction Pilot Testing Results* report (EA, February 27, 2009).

A vacuum of 10 i.w. was applied to tank field wells TF-5 and TF-7 simultaneously, yielding a recovered vapor flow rate of approximately 87 scfm and a PID reading of 26 ppm. Using laboratory analytical data, a mass recovery rate of approximately 0.2 lbs/day was reported. This value is 10% of that observed



during the 2007 SVE feasibility test, suggesting the soil removal activities completed during UST replacement was effective at removal of VOC mass in the soil horizon. No vacuum response was observed at the six observation points (SV-1, SV-2, TF-3, TF-4, TF-6, and TF-8).

A vacuum of 36 i.w., was then applied to tank soil vapor point SV-1 for the second SVE test. This test resulted in an extracted vapor flow rate of approximately 52 scfm and a PID reading of 24 ppm. Using laboratory analytical data, a mass recovery rate of approximately 0.4 lbs/day was reported. No vacuum response was observed at the six observation points (SV-2, TF-3, TF-4, TF-5, TF-6, and TF-8).

5.2.3 Groundwater Extraction Feasibility Test (October 2009)

EA conducted a series of tests to determine bedrock aquifer properties and the feasibility of groundwater extraction as a remedy for dissolved-phase impacts at the Site. The procedures and results were detailed in the *Update Report and Work Plan* (EA, March 15, 2010). The feasibility test included deployment of liquid level transducers on October 5, 2009 to establish background conditions and for test monitoring; a step-drawdown test at monitoring well MW-15D on October 8, 2009; a 72-hour aquifer pump test at monitoring well MW-15D from October 12 through 15, 2009; a groundwater recovery test from October 15 through 19, 2009; and four short-term groundwater extraction tests at monitoring wells MW-10, MW-13, MW-16, and MW-17 from October 19 through 22, 2009.

Pressure transducers were deployed at monitoring wells MW-7, MW-8, MW-10, MW-13, MW-14D, and MW-15D on October 5, 2009 to establish baseline liquid level data. Background data was logged for approximately 71 hours. The results indicated that the groundwater level typically fluctuated by approximately 6 inches during that time (except MW-8 which fluctuated by 12 inches). EA reported that groundwater level fluctuations were not a result of barometric pressure and the cause was not identified.

For the step-drawdown test on October 8, 2009, an electric submersible pump was deployed in monitoring well MW-15D with the intake set at approximately 123 fbg. Six steps were conducted by increasing the extracted flow rate from 1 to 6 gallons per minute (gpm) in 1-gpm increments. The steps were conducted for approximately 60 to 150 minutes each. A total of approximately 2,560 gallons of groundwater were recovered during the test. Based on drawdown results and specific capacity calculations, a sustainable flow rate of 4 gpm was estimated.

For the 72-hour pump test, two potable wells (FR-94-1233 and FR-94-1281) were added to the observation well network. The 72-hour aquifer pumping test at monitoring well MW-15D was initiated at a flow rate of 4 gpm. After approximately 30 hours of pumping, the flow rate was reduced and fluctuated between 3 and 4 gpm because liquid levels were continuing to decrease in the extraction well (sustained between 14 and 30 feet of drawdown). Approximately 14,429 gallons of groundwater were recovered during the test at an average groundwater extraction rate of approximately 3.4 gpm.

Drawdown in observation wells ranged from 0.1 foot (observation well MW-16) to 30.1 feet (extraction well MW-15D). Based on the results of the 72-hour test, a preferential flow direction trending from the northeast to the southwest was observed. The results are reportedly consistent with an unconfined fractured bedrock aquifer with delayed yield. Vertical gradients were not evaluated as the extraction and monitoring wells are screened across varying and multiple water-bearing zones.



EA estimated the transmissivity to range between 0.198 square feet per day (ft^2/day) (MW-7) to 28.4 ft^2/day (MW-14D). The storativity calculated by EA ranged from 0.00234 to 0.221, suggesting aquifer conditions are unconfined to semi-confined.

Groundwater recovery testing was initiated on October 15, 2009. By October 19, 2009, the majority of the wells had recovered by at least 90% of the original head condition.

Short-term groundwater extraction tests were conducted at monitoring wells MW-10, MW-13, MW-16, and MW-17 from October 19 through 22, 2009. One well was tested per day for durations of approximately 4 to 8 hours of active groundwater extraction. An electric groundwater extraction pump was deployed at each well near the terminal depth of the well (pump intake depths ranged from 68 to 113 fbg). Recovered groundwater flow rates ranged from approximately 2.2 to 15.5 gpm. The two extraction wells with the intake less than 100 fbg (MW-10 and MW-13) yielded less than 3 gpm. The two extraction wells with the pump intake at a depth greater than 100 feet bgs (MW-16 and MW-17) yielded flow rates of greater than 7 gpm.

Due to transducer malfunction, observation well liquid level data was not available for analysis for the short-term groundwater extraction tests at monitoring wells MW-10 and MW-17. EA estimated the transmissivity at monitoring well MW-13 as $0.33 \text{ ft}^2/\text{day}$ and the transmissivity at monitoring well MW-16 at 129 ft²/day. EA reported that the higher transmissivity at monitoring well MW-16 was consistent with the higher yield during drilling and well development.

Drawdown observed at surrounding observation wells during groundwater extraction at monitoring well MW-10 was generally consistent and radial. Results at monitoring well MW-13 indicated a north-south trend, and a northeast-southwest trend was observed at monitoring well MW-16.

Influent (untreated) groundwater samples were collected at various times during the 72-hour aquifer test and the short-term groundwater extraction tests. Generally, the MTBE concentrations present were consistent over the duration of the test at each location.

5.2.4 <u>Groundwater Infiltration (Percolation) Test (December 2009)</u>

On December 29, 2009, EA completed a groundwater infiltration investigation (percolation [perc] test) to evaluate the viability of groundwater reinjection associated with implementing a groundwater extraction and treatment remedy. The perc test basis was 28,800 gallons per day (gpd) at a maximum injection rate of 20 gpm. A one-foot deep test pit was installed. The soils in the test pit reportedly consisted of well-drained soils of weathered phyllite bedrock origin with an expected moderate permeability (Glenelg series).

A falling head test was used to estimate percolation properties of the subsurface. Tests were conducted in an eight foot long by two foot wide by one foot deep trench with approximately one foot of water. The trench was then allowed to drain while water level and time were recorded. The test was repeated three additional times (4 total perc tests). The percolation rates reportedly ranged from 45 feet per day (ft/day) to 96 ft/day. The resulting average percolation rate was approximately 57 ft/day, or 0.3 gpm per square foot (gpm/ft²). If a groundwater extraction system were installed, with extraction wells capable of extracting up to 3.5 gpm, the installation of an infiltration gallery of at least 12 ft² per extraction well would be required.



5.2.5 <u>In-Situ Chemical Oxidation Feasibility Test (November – December 2010)</u>

In November 2010, GES initiated activities for an ISCO feasibility test in accordance with the *Pilot Scale Study Work Plan* (September 9, 2010) and the MDE's additional requirements detailed in the *Work Plan Approval* (November 18, 2010). The purpose of the ISCO feasibility test was to evaluate the viability of gas and liquid oxidant (ozone and hydrogen peroxide) injection and obtain design parameters for a full-scale ISCO remediation program. ISCO has been demonstrated as an effective in-situ remedy for petroleum hydrocarbons, including MTBE. Additionally, ISCO has been successful applied in fractured bedrock applications where oxidants can be injected into fractures or secondary porosity features and distributed throughout the area of impact.

Well Installation

Prior to testing, three pairs of nested injection wells (IW-1 through IW-3) and one SVE well (VE-1) were installed between November 16 and 18, 2010 (**Figure 1, Site Map**). The injection wells are GES-patented Max-Ox points that use a shallower liquid oxidant/ambient air injection point and a deeper ozone injection point. The injection well pairs were installed in increasing depths with IW-1 screened at approximately 63 to 67 fbg and 69 to 73 fbg, IW-2 screened at approximately 93 to 97 fbg and 99 to 103 fbg, and IW-3 screened at approximately 123 to 127 fbg and 129 to 133 fbg. SVE well VE-1 was installed to a depth of approximately 28 fbg and screened from 8 to 28 fbg. The purpose of the SVE well was to provide a monitoring and/or recovery point for vapor phase emissions that may occur during institu oxidation.

Additionally, a nested monitoring well pair, MW-18S and MW-18D, was installed south of the injection wells to be used for observation during the feasibility test. Monitoring wells MW-18S and MW-18D were installed between November 17 and 18, 2010. Monitoring well MW-18S was installed to a depth of 70 fbg, screened at approximately 45 to 70 fbg. Monitoring well MW-18D was installed to a depth of 130 fbg, screened at approximately 120 to 130 fbg. Boring and well construction details are provided in **Appendix C – Boring Logs**. The **State of Maryland Well Completion Reports** are included as **Appendix D**.

Soil and rock drill cuttings from injection, SVE and monitoring well construction were containerized onsite in 55-gallon drums, and were later removed from the Site for proper off-site disposal by Clean Earth of Maryland, of Hagerstown, Maryland. The newly installed wells were developed on November 19, 2010 by a Maryland-licensed driller. Purge water from well development was containerized on-site in 55gallon drums, and was later removed from the Site for proper off-site disposal by Triumvirate of Baltimore, Maryland. Copies of the **Non-Hazardous Waste Manifests** for soil and groundwater are included in **Appendix E**.

Baseline Sampling

Baseline groundwater quality field and laboratory samples were collected on November 23, 2010 from selected monitoring locations (MW-7, MW-8, MW-10, MW-13, MW-14S, MW-14D, MW-15D, MW-16, MW-17, and MW-18S, and MW-18D) as outlined in the *Pilot Scale Study Work Plan* and the MDE's *Work Plan Approval*. Groundwater quality and field chemistry samples were collected prior to the feasibility test to establish baseline conditions in the injection wells and nearby monitoring wells. Groundwater quality data are summarized on **Table 3**, and field chemistry data are summarized on **Table 4**.



Baseline field chemistry data collected on November 23, 2010 indicated changes in conditions with depth. Groundwater pH in the 63 to 97 fbg interval ranged from approximately 4.5 to 6 standard units (SU); pH at the 125-fbg sample depth was approximately 7.2 SU; and the pH at the 212-fbg interval was approximately 11.4 SU.

Oxidation-reduction potential (ORP) measures groundwater conditions with negative values representing reducing conditions (typically present at petroleum hydrocarbon-impacted sites) and positive values indicating oxidative conditions are present. The ORP during baseline sampling was positive (oxidative) in all cases and typically ranged from 200 to 400 millivolts (mV). The lowest ORP was measured at monitoring well MW-14D (the deepest sample interval at 212 fbg) in the 100 mV range.

Dissolved oxygen (DO) is another indicator of oxidizing or reducing conditions. Generally, DO concentrations greater than 5 milligrams per liter (mg/L) indicate oxidizing conditions, concentrations less than 2 mg/L indicate reducing conditions, and concentrations between 2 and 5 mg/L may represent limited oxidizing conditions are present. The DO measured on November 23, 2010 depicts overall oxidizing conditions with repressed DO concentrations present at the monitoring wells with greater MTBE concentrations (e.g., MW-15D and MW-17). Monitoring well MW-18D did not adhere to this trend with a DO concentration greater than 5 mg/L and an MTBE concentration of 18,500 µg/L.

Baseline groundwater quality samples collected on November 23, 2010 were generally consistent with historical concentrations ranges detected at the site for the primary COC (MTBE) as well as total petroleum hydrocarbons as gasoline range organics (TPH-GRO). However, at seven locations (MW-10, MW-13, MW-14S, MW-14D, MW-15D, MW-16, and MW-17) the sampling depth may have varied from previous sampling events. Additionally, four monitoring wells (MW-14D, MW-15D, MW-16, and MW-17) were modified from open boreholes to PVC wells between previous sampling events and the November 2010 event which may also affect concentration trends.

Additionally, several non-hydrocarbon petroleum constituents were analyzed at this time. Chemical oxygen demand (COD), total organic carbon (TOC), total dissolved solids (TDS), total suspended solids (TSS), sulfate, total iron, and dissolved iron were sampled and analyzed, and are summarized in **Table 8** – **ISCO Groundwater Monitoring Well Data Summary**. These parameters are relevant to ISCO as they provide data on oxidant demand (COD and TOC), are secondary analytes that may be affected by ISCO (TDS, TSS, sulfate, and chromium), or are used in the oxidation process (total and dissolved iron). The baseline data indicated little total organic carbon is present (as anticipated in an MTBE-impacted bedrock scenario), that chromium is present, and that limited iron is present to activate hydrogen peroxide to generate hydroxyl radicals.

ISCO Feasibility Testing

Feasibility testing was planned for two days (November 30 and December 1, 2010). The scope of work included short-duration air sparging, hydrogen peroxide injection, and ozone injection at the three pairs of nested injection wells (IW-1S/D, IW-2S/D, and IW-3S/D). Prior to injection, baseline field chemistry data was collected from the observation well network and is included as **Table 9 – Chemical Oxidation Geochemical Data Summary**. The baseline readings were collected via deploying the meter sonde in the monitoring well or by using a grab sample in a container instead of a flow-through cell, as was used during the November 23, 2010 baseline data collection. The data collected on November 30, 2010 indicates reducing conditions with negative ORP values at all measured locations, and DO concentrations of less than 1 mg/L (except MW-18S and MW-18D where DO was greater than 5 mg/L). Therefore,



conclusions cannot be drawn between the field chemistry collected during the baseline event and immediately prior to the feasibility test.

Testing was initiated at injection well IW-2S and IW-2D with vapor extraction at vapor extraction well VE-1. Prior to injecting liquid oxidants (i.e., hydrogen peroxide solution) or ozone, a short-duration air sparge test was conducted at each point to confirm that the injection points would accept gas injection. Although acceptance of gas injection is not a guarantee that liquids will be accepted, failure to accept gas injection is indicative that liquids are highly unlikely to be accepted into the formation. Neither injection wells IW-2S nor IW-2D accepted air injection. Therefore, the test scope was modified and testing was moved immediately to the injection wells IW-3S and IW-3D. The same conditions were encountered at this injection well pair, so testing was moved to the remaining injection wells (IW-1S and IW-1D).

Short-duration air sparge testing yielded the same results at injection well IW-1D as the other locations, but injection well IW-1S did accept air flow. A small batch (24 gallons) of 17.5% hydrogen peroxide was prepared for injection into injection well IW-1S. An initial hydrogen peroxide solution injection rate of 1 gpm was achieved. However, as back pressure increased at injection well IW-1S, the flow rate decreased. When the back pressure reached 50 pounds per square inch (psi), exceeding the injection pump capability, the injection flow rate decreased to a no-flow condition. Pressure was allowed to dissipate, and injection was subsequently reinitiated. After injecting a total of approximately 20 gallons of 17.5% hydrogen peroxide solution, the back pressure again increased to 50 psi. Air sparge was attempted to disperse the hydrogen peroxide solution into the aquifer but was unsuccessful. Therefore, injection was terminated and post-injection field chemistry data were collected. The hydrogen peroxide injection is summarized in **Table 10 – Chemical Oxidation Event Summary**.

Field chemistry data collected after the limited injection was consistent with the data collected earlier in the day prior to injection. These results are expected due to the limited oxidant injection that occurred. The field chemistry data do not enable determination of a radius-of-influence (ROI) of the injection. However, pressure influence was observed during the short-duration air sparge test at injection well IW-1S. Pressure influence of 0.25 i.w. was measured at monitoring well MW-15D, and a pressure influence of 0.68 i.w. was measured at monitoring well MW-18D. The pressure influence observed at these monitoring wells suggests that a subsurface connection exists between injection well IW-1S and monitoring wells MW-15D and MW-18D, which are located approximately 25 and 50 feet, respectively, from the injection well.

Vapor extraction was conducted throughout testing at vapor extraction well VE-1. The data are summarized in **Table 11** – **Chemical Oxidation SVE Data**. An extraction vapor flow rate of approximately 20 scfm at an applied vacuum of 72 i.w. was maintained during testing. Initial PID readings indicated a total VOC vapor concentration of 39.8 ppm which decreased during the test to 7.0 ppm. This confirms that limited adsorbed vapor-phase hydrocarbons are present, but due to the limited oxidant injection, the potential for fugitive emissions during injection cannot be evaluated.

Post-Feasibility Test Groundwater Sampling

Per the work plan, field chemistry and groundwater quality samples were collected from select monitoring wells after completion of the feasibility testing. The results of the December 8, 2010 groundwater sampling event are presented in **Table 3** (groundwater quality) and **Table 4** (field chemistry data).



The field chemistry data collected on December 8, 2010 from monitoring wells MW-9, MW-11, MW-12, and MW-18D were generally consistent with the data collected on November 23, 2010. Monitoring well MW-18D is the only well from which field chemistry data were collected during both events.

Select monitoring wells and the injection wells (except IW-3D, which was dry) were sampled on December 8, 2010. The results are within historical ranges for key COCs. The MTBE concentrations in the injection wells ranged from $1,820 \mu g/L$ at injection well IW-2S to $38,900 \mu g/L$ at injection well IW-2D. There are no distinguishable trends for MTBE concentrations in the injection wells either based on location or screen internal depth. The TBA concentrations are of note because, unlike the monitoring well network, the TBA concentration is greater than the MTBE concentration at each sampled injection point (approximately by a factor of two).

Additionally, post-injection samples were collected from monitoring wells MW-18S and MW-18D for COD, TOC, TDS, TSS, chromium, sulfate, total iron, and dissolved iron (**Table 8**). Changes in several parameters are noted between the November 23 and December 8, 2010 sampling events. COD, TOC, sulfate, and dissolved iron were relatively consistent between the sampling events. A significant increase in TDS with a decrease in TSS was noted at monitoring well MW-18S. Both TDS and TSS decreased at monitoring well MW-18D. The chromium and total iron concentrations also decreased at both locations.

Well Redevelopment

Since oxidants were not able to be injected as anticipated, inadequate well development was identified as a possible impediment to oxidant delivery. The injection wells had been developed via air lifting by the driller, but the development fluids were still visibly silty after development was complete. Therefore, additional development was conducted on December 8, 2010 by GES. An air lifting process was again used with vacuum application added to enhance development and fluids recovery. Each well was developed until extracted fluids were visibly clear of sediments. All six injection wells were redeveloped by this method. Approximately 18 gallons of fluids were extracted from the injection wells during the redevelopment process. Recharge observed in injection wells IW-2S/IW-1D and IW-2S/IW-2D following this redevelopment was limited and at a very slow rate.

5.2.6 <u>Air Sparge Feasibility Test (December 2010)</u>

Immediately following redevelopment of the injection wells on December 8, 2010, GES conducted a short air sparge (AS) test by introducing air into the injection wells and monitoring wells MW-18S and MW-18D. Injection wells IW-1S, IW-1D, and IW-2S accepted air flow during and after injection (IW-1S – 7 scfm at 40 psi; IW-1D – 10 scfm at 40 psi; and IW-2S – 4 scfm at 50 psi). Injection wells IW-2D, IW-3S, and IW-3D did not accept air flow at a pressure of 60 psi. During air injection at injection wells IW-1D, pressure influences of 1 i.w. and 0.95 i.w., respectively, were observed at monitoring well MW-15D. No pressure influence was observed at monitoring well MW-15D during the air injection at injection wells IW-2S. Additionally, monitoring wells MW-18S and MW-18D were injected with air, accepting 2 scfm and 2.5 scfm, respectively, at a pressure of 10 psi. Pressure influences of 0.12 i.w. were observed at monitoring well MW-15D during well MW-15D during air injection at both monitoring wells MW-18S and MW-18D.



5.3 Conclusions and Recommendations

Six feasibility tests have been conducted to date – two SVE tests, a groundwater extraction test, a perc test, an ISCO test, and an AS test. The SVE tests indicate that soil was effectively remediated during UST excavation activities. Very limited adsorbed-phase mass appears to remain at the site. The groundwater extraction testing demonstrated that groundwater extraction is a viable technology to mitigate migration of COCs at the site and remediate impacted groundwater. The ISCO testing and subsequent injection well redevelopment indicated that a primarily gas-based oxidation technology could be used to remediate groundwater in bedrock up to 100 fbg in this area but insufficient fluid conductivity exists below this depth in this area for injection. Since the groundwater extraction test did not evaluate the effects of depth on recovery and capture, it is unknown if recovery of impacted groundwater below 100 fbg would be effective; however, it is assumed that the low fluid conductivity observed during ISCO testing would also adversely affect groundwater extraction at this depth.

Groundwater extraction and treatment is a proven technology that could be implemented as the remedy at this site. A network of recovery wells can be designed and installed with a central groundwater treatment area. The primary disadvantages of a groundwater extraction and treatment system are the potential effects to the potable water supply (i.e., decreasing water available to the commercial wells and residential properties downgradient of the Site) and the anticipated operational duration of the system to achieve remedial goals.

ISCO has also been proven to be effective on treatment of the COCs present at this site as well as in fractured bedrock settings. ISCO can be conducted as short-duration events (e.g., less than five days in duration) with mobile equipment or on a longer-term basis with equipment installed in a central area similar to the groundwater extraction option. The primary disadvantages of ISCO at this site are the potential impacts to potable wells and the limited injection success during the feasibility test.

Since the COC mass is limited to dissolved-phase impacts in fractured rock over a large area, ISCO may achieve and accelerate Site remedial goals at a lower life cycle cost than groundwater extraction and treatment. Therefore, an extended ISCO field pilot-scale remediation is proposed for implementation within the area of greatest groundwater impact at this Site. The data obtained at the Site provides sufficient information to specify a source area ISCO remedy and a remedy monitoring plan.

The ISCO feasibility test and well redevelopment results indicate that a gas-based ISCO technology can be used to remediate groundwater present in fractured bedrock (up to 100 fbg at recently installed injection wells). Therefore, GES' patented HypeAir-EX[®] technology is proposed for implementation using injection wells IW-1S, IW-1D, and IW-2S. The HypeAir-EX process uses ozone/ambient air injection with low-flow hydrogen peroxide injection. Ozone both directly oxidizes organic compounds and reacts with hydrogen peroxide to create hydroxyl radicals that also oxidize organics. This advanced oxidation technology provides several advantages at this site over other ISCO methods.

First, ozone is a highly effective oxidant for MTBE sites where MTBE and TBA are present. A common oxidation pathway for MTBE is to break down to TBA. Continuous ozone injection is effective at oxidizing existing TBA and TBA formed through MTBE oxidation. The use of oxidants that do not effectively treat TBA can result in significant reduction in MTBE with a residual dissolved TBA plume.

Secondly, the ozone-based technology can react with hydrogen peroxide to create hydroxyl radicals with or without iron present. At this Site, iron concentrations are low in many locations (i.e., less than



15 mg/L). Therefore, if hydrogen peroxide is used as the primary oxidant, addition of an iron source would likely be needed as native iron is depleted over time. Although total iron concentrations decreased at monitoring well MW-18S and MW-18D based on pre- and post-ISCO feasibility test sampling, the decrease observed is greater than can be attributed to the 20 gallons of hydrogen peroxide solution injected during the ISCO feasibility test and the distance (approximately 50 feet) from the injection point.

5.4 Conceptual Design of ISCO System

Installation of an ISCO system is the proposed method of remediation for the "source area," or area of greatest groundwater impact, at the Site. Following is a conceptual design and plan for operation of an ISCO system based upon the data collected to date.

The proposed remedy will utilize a system capable of injecting up to 5 lbs/day of ozone with ambient air and up to 14 gallons of hydrogen peroxide per day. The system will be designed such that all three injection points can be used for both ozone injection and hydrogen peroxide injection (though not simultaneously at the same well). Each of the three injection wells will have a dedicated ozone injection line with individual flow meters. Two metered hydrogen peroxide lines will be installed – one to injection wells IW-1S and IW-1D and a separate line to injection well IW-2S. Ozone will be the primary oxidizer, and the hydrogen peroxide lines will be periodically connected to the injection wells and operated for a specified duration.

The system will be enclosed in an 8-foot-wide by 10-foot-long trailer and will include the ozone generator, hydrogen peroxide holding tank, injection pumps, flow meters, and controls. The system includes a telemetry system that will notify GES in the event of an alarm condition or system shut-down. Additionally, an SVE system will be used to mitigate fugitive emissions that may occur as a result of the advanced oxidation process. Vapor extraction well VE-1 is proposed for extraction during system operation. Based on previously conducted SVE testing, a conservative SVE ROI of 50 feet is estimated in the shallow soil above bedrock (e.g., < 25 fbg). Based upon test results, it is not anticipated that off-gas treatment will be required for the SVE component.

Ozone lines will be constructed of stainless steel and Teflon inside the equipment trailer and Teflon below grade and in the injection well vaults. The Teflon will be sleeved inside high density polyethylene (HDPE) tubing below grade. The hydrogen peroxide injection lines will be constructed of compatible hose, schedule 80 PVC, and HDPE. The SVE line will be constructed of schedule 40 PVC below grade and schedule 80 PVC above grade. Subgrade piping will be installed no greater than 36 inches below grade. Piping will be bedded in pea gravel, sand, or other bedding material. Trenches will then be backfilled with suitable material and will be resurfaced to meet existing conditions. The proposed trenching and equipment locations are depicted on **Figure 5 – Proposed Remediation System Layout**. The equipment will require installation of a dedicated power drop.

The effective remediation area is estimated to be approximately 15 feet radially around the three injection points as shown on **Figure 6** – **Estimated Target Remediation Area**. However, additional effective downgradient remediation is anticipated to occur through migration of elevated DO concentrations along bedrock fractures. For this initial source area remediation, it is anticipated that the equipment will operate for up to 60 days (eight weeks), injecting up to 5 lbs/day of ozone, while field parameters are monitored in the source area and down gradient to determine the site-specific effectiveness of the source area remediation. During this initial system operation period, GES will conduct routine operation and

Corrective Action Plan Monrovia BP/Former Green Valley Citgo 11791 Fingerboard Road, Monrovia, Frederick County, MD March 15, 2011



maintenance (O&M) of the system on a weekly basis. During each O&M visit, the following data will be measured and/or recorded:

- Ozone/air flow rate to each injection well;
- Ozone concentration to each injection well;
- Hydrogen peroxide injection flow rate to each injection well;
- Volume of hydrogen peroxide injected to each injection well;
- Volume of hydrogen peroxide in injection tank;
- Applied blower vacuum to VE-1;
- Extracted vapor flow rate from SVE system;
- Influent PID reading from SVE system;
- Influent ozone reading from SVE system;
- Headspace PID, LEL, and percent oxygen readings at monitoring wells MW-15D, MW-18S, and MW-18D; and
- Groundwater temperature, DO, ORP, conductivity, and pH at monitoring wells MW-15D, MW-18S, and MW-18D.

On an every-other week basis (starting with week one of operation), the following additional data will be collected:

- Headspace PID, LEL, and percent oxygen readings at monitoring wells MW-7, MW-8, MW-10, MW-13, MW-14S, MW-14D, MW-16, and MW-17; and
- Groundwater temperature, DO, ORP, conductivity and pH at monitoring wells MW-7, MW-8, MW-10, MW-13, MW-14S, MW-14D, MW-16, and MW-17.

In addition to the field parameters above, groundwater sampling will be conducted at monitoring wells MW-7, MW-10, MW-14S, MW-14D, MW-15D, MW-17, MW-18S, and MW-18D after two weeks of operation and after five weeks of operation. Should sampling results indicate ISCO operation is not adversely impacting groundwater chemistry (organic or inorganic) in areas surrounding and downgradient of the primary treatment area, groundwater sampling will subsequently revert to the existing quarterly schedule and scope. Groundwater samples will be laboratory analyzed for the parameters indicated in the following table:

	Laboratory Analytical Parameters								
Well ID				Diss.	Total	Cr+3 and	TDS		
	VOCs	TOC	COD	Iron	Iron	Cr +6	/TSS		
MW-7	X	Х	X	X	Х	Х	Х		
MW-8	X								
MW-10	X								
MW-13	Х								
MW-14S	Х								
MW-14D	Х	Х	Х	Х	Х	Х	X		

Groundwater Sampling Plan



	Laboratory Analytical Parameters								
Well ID				Diag	Total	Cr+3	TDC		
	VOCs	TOC	COD	Iron	Iron	Cr +6	/TSS		
MW-15D	Х	Х	Х	Х	Х	Х	X		
MW-16	Х								
MW-17	Х	Х	Х	Х	Х	Х	Х		
MW-18S	Х	Х	Х	Х	Х	Х	Х		
MW-18D	Х	Х	Х	Х	Х	Х	X		

The remedial goal for the targeted ISCO remediation is to achieve a 90% or greater reduction in MTBE concentration in monitoring wells MW-15D, MW-18S, and MW-18D and provide increased downgradient DO concentrations in the groundwater. Additional and/or modified operation of an ISCO remediation system in the targeted area and/or additional areas onsite will be determined following the initial eight-week operation of the ISCO remediation system, as proposed.

If the data warrants continued operation of the targeted ISCO remediation system beyond eight weeks, adjustments to the O&M schedule and monitoring program will be submitted to the MDE (via e-mail) for approval. MDE will be given advance notification of any scheduled ISCO system deactivation plans and will be provided a written summary following the deactivation including all data collected during the operation of the ISCO system. Any major adjustments to the implementation of ISCO CAP and/or consideration of additional or supplemental remedial technologies will be proposed in a CAP Addendum for MDE review and approval.

Following the MDE's approval of this conceptual ISCO method, a *CAP Implementation Plan* will be submitted to the MDE including detailed process and instrumentation diagrams and permit information.

6.0 **PROPOSED SCHEDULE**

The following schedule is proposed for implementing the action items presented in this CAP:



Activity/Milestones	Anticipated Date of Completion				
Submit CAP to MDE	Week 0				
MDE review and approval of CAP	Week 4				
Finalize remediation system design and CAP Implementation Plan	Week 9 (MDE approval of CAP + 5 weeks)				
Submit CAP Implementation Plan to MDE	Week 10				
Construction of remediation system (trenching, equipment install)	Week 18				
System activation	Week 20				
System performance evaluation	Week 25				
Determination of additional ISCO system operation	Week 28				

7.0 **REFERENCES**

Environmental Alliance. April 25, 2007, Interim Corrective Action Plan, Monrovia BP/Former Green Valley Citgo.

Environmental Alliance. April 25, 2007, Sampling Results and Work Plan, Monrovia BP/Former Green Valley Citgo.

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Environmental Alliance. February 27, 2009, Soil Vapor Extraction Pilot Testing Results, Monrovia BP/Former Green Valley Citgo.

Environmental Alliance. March 15, 2010, Update Report and Work Plan, Monrovia BP/Former Green Valley Citgo.



Groundwater & Environmental Services, Inc. February 14, 2011, Fourth Quarter 2010 Monitoring Report, Monrovia BP/Former Green Valley Citgo.

Maryland Geologic Survey. 1968, Geologic Map of Maryland (excerpt of Frederick County), http://www.mgs.md.gov/esic/geo



FIGURES















TABLES

Table 1

MONITORING WELL CONSTRUCTION DETAILS

MONROVIA BP / FORMER GREEN VALLEY CITGO 11791 FINGERBOARD ROAD MONROVIA, MARYLAND

Well I.D.	Well Permit #	Date Well Drilled	Date Well Installed	Well Diameter (inches)	TOC Elevation	Date of Last Survey	Total Depth of Well (from Ground Surface)	DTB of Steel Casing (feet)	TOS from Ground Surface	BOS from Ground Surface	COMMENTS
MW-1	FR-94-5045	2/7/06	2/7/2006	2	99.19	2/27/2006	61.5		40	61.5	
MW-2	FR-94-5046	2/7/06	2/7/2006	2	99.47	2/27/2006	61.5		40	61.5	
MW-3	FR-94-5047	2/7/06	2/7/2006	2	99.16	2/27/2006	81.5		40	64	Drilled to 81.5 feet, backfilled and set at 64 feet; well abandoned 5/15/08
MW-4	FR-94-5048	2/7/06	2/7/2006	2	97.84	2/27/2006	61.5		40	61.5	
MW-5	FR-95-0982	5/12/08	2/23/2009	4	99.60	3/18/2009	70	14	40	70	
MW-6	FR-95-0983	5/12/08	2/23/2009	4	98.09	3/18/2009	59.5	14	40	59.5	boring caved to 59.5 feet
MW-7	FR-95-0984	5/12/08	2/24/2009	4	97.66	3/18/2009	80	19.5	53	80	
MW-8	FR-95-0985	5/12/08	2/23/2009	4	97.93	3/18/2009	70	15	45	70	
MW-9	FR-95-1216	2/26/09	3/11/2009	4	88.48	3/18/2009	78	10	48	78	
MW-10	FR-95-1217	2/26/09	3/11/2009	4	91.64	3/18/2009	80	10	40	80	
MW-11	FR-95-1219	2/27/09	3/11/2009	4	94.28	3/18/2009	77	10	47	77	
MW-12	FR-95-1218	3/2/09	3/12/2009	4	95.33	3/18/2009	84	10	44	82	
MW-13	FR-95-1215	3/2/09	3/12/2009	4	98.11	3/18/2009	84	10	49	84	
MW-14S	FR-95-1599	7/20/10	7/22/2010	4	91.21	7/22/2010	100	11.0	40	100	
MW-14D	FR-95-1418	9/24/09	7/22/2010	4	92.07	7/22/2010	221	10.5	201	221	
MW-15D	FR-95-1419	9/28/09	7/19/2010	4	97.67	7/22/2010	133.5	10	45.5	133.5	
MW-16	FR-95-1420	9/25/09	7/20/2010	4	89.78	7/22/2010	121	9.75	35.5	121	
MW-17	FR-95-1421	9/25/09	7/20/2010	4	92.84	7/22/2010	121	10.5	35	121	
MW-18S	ED 05 1674	11/17/10	11/17/2010	2	98.29	1/4/2011	70		45	70	
MW-18D	8D FK-93-10/4 11/1/	11/1//10	11/18/2010	2	98.31	1/4/2011	130		120	130	MW-18S and MW-18D nested in one borehole
VE-1	FR-95-1673	11/19/10	11/17/2010	4	98.40	1/4/2011	25		5	25	
IW-1S	ED 05 1670	TD 05 1670	11/18/2010	0.60	98.52	1/4/2011	67		63	67	IW-1S and IW-1D nested in one borehole - stainless
IW-1D	W-1D	11/18/10	11/19/2010	0.60	98.60	1/4/2011	73		69	73	steel screen and casing
IW-2S	ED 05 1671	11/10/10	11/18/2010	0.60	98.63	1/4/2011	91		87	91	IW-2S and IW-2D nested in one borehole - stainless
IW-2D	FK-95-10/1	11/18/10	11/19/2010	0.60	98.71	1/4/2011	103		99	103	steel screen and casing
IW-3S	ED 05 1670	11/18/10	11/18/2010	0.60	98.51	1/4/2011	127		123	127	IW-3S and IW-3D nested in one borehole - stainless
IW-3D	FR-95-1670	11/18/10	11/19/2010	0.60	98.62	1/4/2011	134		130	134	steel screen and casing

1 of 1

Notes:

TOS - Top of screen TOC - Top of casing BOS - Bottom of screen U -Unknown


HISTORICAL SOIL ANALYTICAL DATA SUMMARY

oil Sample ID	ate	epth (ft)	enzene (μg/kg)	oluene (µg/kg)	thylbenzene ig/kg)	otal Xylenes ıg/kg)	TBE (μg/kg)	rt-Butyl Alcohol ıg/kg)	rt-amyl methyl her (μg/kg)	hyl tert-butyl her (µg/kg)	iisopropyl ether ıg/kg)	PH-DRO (mg/kg)	PH-GRO (mg/kg)
<u>Ď</u> MDE Non Dosidontial	<u>Clean un S</u>	<u> </u>	B	Ĩ	<u>e</u> e	1	Σ	te (ju	te et	et et	Ū J	T	I
for Soil (Ju	clean-up 8 ne 2008)	landard	52,000	8,200,000	10,000,000	20,000,000	720,000	NA	NA	NA	NA	620	620
GP-1	09/14/05	11 - 14	< 0.5	< 1	< 1	< 1	13	680	< 1	< 1	< 1	110	< 0.2
GP-2	09/14/05	8 - 11	< 0.6	< 1	< 1	< 1	0.9 J	200	< 1	< 1	< 1	8.7 J	< 0.2
GP-3	09/14/05	8 - 11	< 0.6	< 1	< 1	< 1	20	< 22	< 1	< 1	< 1	66	< 0.2
GP-4	09/14/05	6 - 8	< 0.5	< 1	< 1	< 1	< 0.5	< 21	-	-	-	< 4.2	< 0.2
GP-5	09/14/05	8 - 11	< 0.5	< 1	< 1	< 1	2 J	< 22	-	-	-	< 4.3	< 0.2
GP-6	09/15/05	11 - 14	< 0.5	2 J	< 1	2 J	< 0.5	< 22	< 1	< 1	< 1	43	0.5 J
GP-7	09/15/05	11 - 14	< 0.6	< 1	< 1	< 1	< 0.6	< 22	< 1	< 1	< 1	< 4.4	< 0.2
GP-8	09/15/05	14 - 16	< 0.5	< 1	< 1	4 J	2 J	< 22	-	-	-	15	< 0.2
GP-9	09/15/05	19 - 20	< 0.5	< 1	< 1	< 1	2 J	< 22	-	-	-	24	< 0.2
GP-10	09/15/05	12 - 13	< 0.5	< 1	< 1	1 J	0.6 J	< 21	-	-	-	24	< 0.2
SB-1	06/01/07	15 - 17	< 0.5	< 1	< 1	< 1	< 0.5	< 21	< 1	< 1	< 1	5.4 J	< 0.2
SV-1	05/31/07	24.5	< 0.5	< 1	< 1	< 1	< 0.5	< 21	< 1	< 1	< 1	< 4.2	< 0.2
SV-2	05/31/07	20	< 0.5	< 1	< 1	< 1	24	41 J	< 1	< 1	< 1	-	< 0.2



HISTORICAL SOIL ANALYTICAL DATA SUMMARY

Soil Sample ID	Date	Depth (ft)	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (μg/kg)	Total Xylenes (μg/kg)	MTBE (µg/kg)	tert-Butyl Alcohol (μg/kg)	tert-amyl methyl ether (μg/kg)	ethyl tert-butyl ether (μg/kg)	Diisopropyl ether (µg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)
MDE Non-Residential for Soil (Ju	Clean-up S ne 2008)	tandard	52,000	8,200,000	10,000,000	20,000,000	720,000	NA	NA	NA	NA	620	620
SV-2	05/31/07	25	-	-	-	-	-	-	-	-	-	< 4.2	-
SV-2	05/31/07	30	< 0.5	< 1	< 1	< 1	15	1,900	< 1	< 1	< 1	-	< 0.2
SV-3	06/01/07	10 - 12	< 0.5	< 1	< 1	< 1	160	4,800	< 1	< 1	< 1	< 4.4	< 0.2
SV-3	06/01/07	15 - 17	< 0.6	< 1	< 1	< 1	73	200	< 1	< 1	< 1	< 4.4	< 0.2
DISP-1	07/16/08	4	< 0.6	< 1	< 1	< 1	< 0.6	< 24	< 1	< 1	< 1	< 4.4	< 0.2
DISP-2	07/16/08	4	< 0.5	< 1	< 1	< 1	< 0.5	< 22	< 1	< 1	< 1	< 4.7	0.4 J
DISP-3	07/16/08	4	< 0.6	< 1	< 1	< 1	< 0.6	< 25	< 1	< 1	< 1	< 4.6	< 0.2
DISP-4	07/16/08	4	< 0.5	< 1	< 1	< 1	< 0.5	< 20	< 1	< 1	< 1	< 4.3	< 0.2
DISP-5	07/16/08	4	< 0.6	< 1	< 1	< 1	< 0.6	< 23	< 1	< 1	< 1	52	0.3 J
PIPE-1	07/16/08	4	< 0.5	< 1	< 1	3 J	< 0.5	< 20	< 1	< 1	< 1	10 J	0.3 J
PIPE-2	07/16/08	4	< 0.6	< 1	< 1	< 1	< 0.6	< 25	< 1	< 1	< 1	8.0 J	0.7 J
PIPE-3	07/16/08	4	< 0.5	< 1	< 1	< 1	< 0.5	< 20	< 1	< 1	< 1	4.9 J	< 0.2
PIPE-4	07/16/08	4	< 0.6	< 1	< 1	< 1	< 0.6	< 24	< 1	< 1	< 1	< 4.7	< 0.2



HISTORICAL SOIL ANALYTICAL DATA SUMMARY

Soil Sample ID	Date	Depth (ft)	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (μg/kg)	Total Xylenes (μg/kg)	MTBE (µg/kg)	tert-Butyl Alcohol (µg/kg)	tert-amyl methyl ether (μg/kg)	ethyl tert-butyl ether (μg/kg)	Diisopropyl ether (µg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)
MDE Non-Residential for Soil (Ju	Clean-up S ne 2008)	tandard	52,000	8,200,000	10,000,000	20,000,000	720,000	NA	NA	NA	NA	620	620
PIPE-5	07/16/08	4	< 0.6	< 1	< 1	< 1	< 0.6	< 24	< 1	< 1	< 1	6.4 J	< 0.2
LINE-6	07/28/08	4	< 0.5	< 1	< 1	< 1	< 0.5	< 21	< 1	< 1	< 1	9.2 J	< 0.2
LINE-7	07/28/08	4	< 0.5	< 1	< 1	< 1	< 0.5	< 20	< 1	< 1	< 1	< 4.3	< 0.2
LINE-8	07/28/08	4	< 0.6	< 1	< 1	< 1	< 0.6	< 23	< 1	< 1	< 1	< 4.4	< 0.2
DUST-04	07/21/08	11	< 0.6	< 1	< 1	< 1	< 0.6	< 22	< 1	< 1	< 1	6.6 J	< 0.2
TF-BOTTOM	07/22/08	15	< 0.5	< 1	< 1	< 1	< 0.5	< 22	< 1	< 1	< 1	5.2 J	< 0.2
TF-SE	07/22/08	15	< 0.6	< 1	< 1	< 1	< 0.6	1,100	< 1	< 1	< 1	8.3 J	< 0.2
TF-SW	07/22/08	15	< 0.5	< 1	< 1	< 1	< 0.5	< 21	< 1	< 1	< 1	< 4.2	< 0.2
TF-NE	07/28/08	15	< 0.6	< 1	< 1	< 1	< 0.6	< 22	< 1	< 1	< 1	< 4.4	< 0.2
TF-NW	07/28/08	15	< 0.5	< 1	< 1	< 1	< 0.5	< 21	< 1	< 1	< 1	< 4.3	< 0.2
TF-NORTH	07/21/08	5	< 0.7	< 1	< 1	< 1	< 0.7	< 27	< 1	< 1	< 1	< 5.3	< 0.3
TF-SOUTH	07/22/08	5	< 0.6	< 1	< 1	< 1	< 0.6	< 24	< 1	< 1	< 1	4.6 J	< 0.2
TF-WEST	07/24/08	5	< 0.6	< 1	< 1	< 1	< 0.6	< 23	< 1	< 1	< 1	32	< 0.2



HISTORICAL SOIL ANALYTICAL DATA SUMMARY

MONROVIA BP / FORMER GREEN VALLEY CITGO 11791 FINGERBOARD ROAD MONROVIA, MARYLAND

Soil Sample ID	Date	Depth (ft)	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (μg/kg)	Total Xylenes (μg/kg)	MTBE (µg/kg)	tert-Butyl Alcohol (µg/kg)	tert-amyl methyl ether (μg/kg)	ethyl tert-butyl ether (μg/kg)	Diisopropyl ether (µg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)
MDE Non-Residential for Soil (Ju	Clean-up S ne 2008)	tandard	52,000	8,200,000	10,000,000	20,000,000	720,000	NA	NA	NA	NA	620	620
TF-EAST	07/24/08	5	< 0.5	< 1	< 1	< 1	< 0.5	< 22	< 1	< 1	< 1	7.2 J	< 0.2
LINE1-PEX-BOTTOM	07/21/08	8	< 0.5	< 1	< 1	< 1	< 0.5	< 21	< 1	< 1	< 1	< 4.3	< 0.2
LINE1-PEX-EAST	07/21/08	8	< 0.5	< 1	< 1	< 1	< 0.5	< 21	< 1	< 1	< 1	< 4.2	< 0.2
LINE1-PEX-NORTH	07/21/08	8	< 0.6	< 1	< 1	< 1	< 0.6	< 22	< 1	< 1	< 1	< 4.3	< 0.2
LINE1-PEX-SOUTH	07/21/08	8	< 0.6	< 1	< 1	< 1	< 0.6	< 23	< 1	< 1	< 1	5.9 J	< 0.2

= Not Analyzed

-

<# J

ft

µg/kg

mg/kg MTBE

NA

- = Less than the method detection limit of #
 - = Estimated Value
 - = Feet
- = Micrograms per kilogram
- = Milligrams/kilogram
- = Methyl tertiary butyl ether
- = Not applicable
- TPH-DRO = Total Petroleum Hydrocarbons Diesel Range Organics
- TPH-GRO = Total Petroleum Hydrocarbons Gasoline Range Organics



GROUNDWATER ANALYTICAL DATA SUMMARY

		uo			er t)					A	nalytes	of Conc	ern (ug	g/l)		_	-	
Monitoring Well ID	Date	TOC Elevati (ft)	DTW (ft)	Measured DTB (ft)	Groundwate Elevation (f	Sampling Method	BENZENE	TOLUENE	BENZENE	TOTAL XYLENES*	MTBE	TBA	TAME	ETBE	DIPE	TPH-DRO	TPH-GRO	Notes / Comments
MDE GW	Clean-up S		s for Ty	pe I and	II Aqui	iers	5	1,000	700	10,000	20	NG	NG	NG	NG	47	47	
MW-1	02/27/06	99.19	45.50	-	53.69	-	< 0.5	1 J	< 0.8	< 0.8	16	15 J	< 0.8	< 0.8	0.8 J	1,100	77	
TOS = 40	09/19/06		47.44	-	51.75	-	IJ	< 0.7	< 0.8	< 0.8	14	39 J	1.0 J	< 0.8	31	7,900	150	
TD = 61.5	04/19/07		41.83	-	57.36	-	< 0.5	< 0.7	< 0.8	< 0.8	9	< 10	< 0.8	< 0.8	IJ	160	33 J	
Dia(in) = 2	08/08/07		51.63	-	47.56	-	1 J	< 0.7	< 0.8	< 0.8	31	54 J	1.0 J	< 0.8	6	2,400	220	
	10/10/07		54.35	-	44.84	-	1 J	< 0.7	< 0.8	< 0.8	35	46 J	2 J	< 0.8	7	1,200	210	
	01/16/08		50.50	-	48.69	-	2 J	< 0.7	< 0.8	< 0.8	59	97	2 J	< 0.8	16	1,500	1,000	
	04/15/08		47.54	-	51.65	-	0.9 J	< 0.7	< 0.8	< 0.8	28	76 J	1 J	< 0.8	6	630	770	
	06/12/08		43.98	-	55.21	-	< 0.5	< 0.7	< 0.8	< 0.8	9	11 J	< 0.8	< 0.8	2 J	780	110	
	10/21/08		49.50	-	49.69	-	< 0.5	< 0.7	< 0.8	< 0.8	17	< 10	< 0.8	< 0.8	3 J	-	65	
	01/30/09		48.61	-	50.58	-	< 1	< 1	< 1	< 1	12.6	< 5	< 1	< 1	3.33	< 40	60.5 J	
	04/09/09		51.71	-	47.48	-	< 1	< 1	< 1	< 1	6.83	< 5	< 1	< 1	1.68	< 40	< 25	
	07/23/09		48.78	-	50.41	-	< 2	< 2	< 2	< 2	14.3	< 10	< 2	< 2	3.08	< 40	< 25	
	10/01/09		48.63	-	50.56	-	< 1	< 1	< 1	< 1	5.69	< 5	< 1	< 1	1.22	43.2 J	43.2 J	
	01/15/10		42.83	-	56.36	-	< 2	< 2	< 2	< 2	< 2	< 10	< 2	< 2	< 2	< 300	< 100	
	04/16/10		43.50	-	55.69	-	< 1	< 1	< 1	< 1	1.54	< 5	< 1	< 1	< 1	< 300	< 100	
	7/20/10 [†]		51.25	-	47.94	-	< 1.00	< 1.00	< 1.00	< 1.00*	2.15	< 5.00	< 1.00	< 1.00	< 1.00	< 300	< 100	
	12/08/10		52.88	60.55	46.31	P&S	< 1.00	< 1.00	< 1.00	< 2.00	2.72	< 5.00	< 1.00	< 1.00	< 1.00	< 300	< 100	
MW-2	02/27/06	99.47	49.00	-	50.47	-	< 0.5	< 0.7	< 0.8	< 0.8	< 0.5	< 10	< 0.8	< 0.8	< 0.8	310	58	
TOS = 40	09/19/06		58.31	-	41.16	-	< 0.5	< 0.7	< 0.8	< 0.8	< 0.5	< 10	< 0.8	< 0.8	< 0.8	520 J	390	
TD = 61.5	04/19/07		45.61	-	53.86	-	< 0.5	< 0.7	< 0.8	< 0.8	< 0.5	< 10	< 0.8	< 0.8	< 0.8	380	130	
Dia (in) = 2	08/08/07		60.25	-	39.22	-	-	-	-	-	-	-	-	-	-	-	-	Insufficent Water to Sample
	10/10/07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Bailer Stuck in well
	01/16/08		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	04/15/08		53.30	-	46.17	-	1 J	< 0.7	< 0.8	< 0.8	< 0.5	10 J	< 0.8	< 0.8	< 0.8	310	650	
	06/12/08		46.94	-	52.53	-	< 0.5	< 0.7	< 0.8	< 0.8	< 0.5	< 10	< 0.8	< 0.8	< 0.8	150	310	
	10/21/08		58.42	-	41.05	-	< 0.5	< 0.7	< 0.8	< 0.8	< 0.5	< 10	< 0.8	< 0.8	< 0.8	-	170	
	01/30/09		55.47	-	44.00	-	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 40	11,100	
	04/09/09		60.21	-	39.26	-	-	-	-	-	-	-	-	-	-	-	-	Insufficent Water to Sample
	07/23/09		54.36	-	45.11	-	< 2	< 2	< 2	< 2	< 2	< 10	< 2	< 2	< 2	< 40	138	
	10/02/09		57.18	-	42.29	-	< 1	< 1	< 1	< 1	< 1	< 5	1.08	< 1	< 1	144 J	293	
	01/15/10		45.09	-	54.38	-	< 2	< 2	< 2	< 2	< 2	< 10	< 2	< 2	< 2	< 300	< 100	
	04/16/10		46.23	-	53.24	-	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 300	< 100	
	07/19/10		60.09	-	39.38	-	-	-	-	-	-	-	-	-	-	-	-	Insufficent Water to Sample
	12/08/10		60.18	60.60	39.29	Grab	< 2.00	< 2.00	< 2.00	< 4.00	< 2.00	< 10.0	< 2.00	< 2.00	< 2.00	-	-	Grab Sample
MW-3	02/27/06	99.16	54.24	-	44.92	-	6	3 J	< 0.8	1 J	22,000	10,000	330	< 0.8	160	7,600	23,000	
TOS = 40	09/19/06		55.93	-	43.23	-	66 J	< 35	< 40	< 40	59,000	41,000	920	< 40	550	8,100	82,000	
TD = 64	04/19/07		51.23	-	47.93	-	41 J	< 35	< 40	< 40	66,000	57,000	570	< 40	400	940	66,000	
Dia (in) = 2	08/08/07		57.85	-	41.31	-	77 J	< 70	< 80	< 80	47,000	17,000	450 J	< 80	410 J	-	60,000	
	10/10/07		59.00	-	40.16	-	-	-	-	-	-	-	-	-	-	-	-	Insufficent Water to Sample
	01/16/08		56.41	-	42.75	-	77 J	< 70	< 80	< 80	78,000	39,000	710	< 80	640	1,900	110,000	
	04/15/08		55.40	-	43.76	-	< 50	< 70	< 80	< 80	71,000	45,000	420 J	< 80	320 J	1,300	78,000	MW Abandoned in May 2008
MW-4	02/27/06	97.84	51.51	-	46.33	-	< 0.5	< 0.7	< 0.8	< 0.8	3 J	< 10	< 0.8	< 0.8	< 0.8	170	89	
TOS = 40	09/19/06		55.11	-	42.73	-	< 0.5	< 0.7	< 0.8	< 0.8	3 J	< 10	< 0.8	< 0.8	< 0.8	5,700	100	
TD = 61.5	04/19/07		50.43	-	47.41	-	< 0.5	< 0.7	< 0.8	< 0.8	1 J	< 10	< 0.8	< 0.8	< 0.8	130	< 20	
Dia (in) = 2	08/08/07		57.41	-	40.43	-	< 0.5	< 0.7	< 0.8	< 0.8	4 J	< 10	< 0.8	< 0.8	< 0.8	< 30	< 20	
	10/10/07		59.45	-	38.39	-	< 0.5	< 0.7	< 0.8	< 0.8	2 J	< 10	< 0.8	< 0.8	< 0.8	840	< 20	
	01/16/08		58.27	-	39.57	-	< 0.5	< 0.7	< 0.8	< 0.8	2 J	< 10	< 0.8	< 0.8	< 0.8	360 J	< 20	



GROUNDWATER ANALYTICAL DATA SUMMARY

20		on			er t)					A	nalytes	of Conc	ern (ug	g/l)				
Monitoring Well ID	Date	TOC Elevati (ft)	(II) MLO	Measured DTB (ft)	Elevation (f	Sampling Method	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES*	MTBE	TBA	TAME	ETBE	DIPE	TPH-DRO	TPH-GRO	Notes / Comments
MDE GW	Clean-up S	landard	s 10f 1 y	pe I and	II Aqui	lers	5	1,000	700	10,000	20	NG	NG	NG	NG	47	47	
MW-4	04/15/08		53.77	-	44.07	-	< 0.5	< 0.7	< 0.8	< 0.8	1 J	< 10	< 0.8	< 0.8	< 0.8	490	< 20	
(Cont.)	06/12/08		50.72	-	47.12	-	< 0.5	< 0.7	< 0.8	< 0.8	0.6 J	< 10	< 0.8	< 0.8	< 0.8	230	< 20	
	10/21/08		56.58	-	41.26	-	< 0.5	< 0.7	< 0.8	< 0.8	1 J	< 10	< 0.8	< 0.8	< 0.8	-	< 20	
	01/30/09		55.42	-	42.42	-	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 40	45.4 J	
	04/09/09		68.95	-	28.89	-	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 40	< 25	
	07/23/09		54.28	-	43.56	-	< 2	< 2	< 2	< 2	< 2	< 10	< 2	< 2	< 2	< 40	< 25	
	10/02/09		55.84	-	42.00	-	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	51.1 J	83.9 J	
	01/15/10		49.97	-	47.87	-	<2	< 2	< 2	<2	4.36	< 10	< 2	< 2	< 2	< 300	< 100	
	04/14/10		50.63	-	47.21	-	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 300	< 100	
	12/08/10		58.67	-	39.17	-	< 1.00	< 1.00	< 1.00	< 1.00*	2.57	< 5.00	< 1.00	< 1.00	< 1.00	< 300	< 100	
	12/08/10		59.12	61.09	38.72	Grab	< 1.00	< 1.00	< 1.00	< 2.00	1.51	< 5.00	< 1.00	< 1.00	< 1.00	< 300	< 100	
MW 5	06/12/08	101.20	47.21		52.00		< 0.5	< 0.7	< 0.8	< 0.8	< 0.5	< 10	< 0.8	< 0.8	< 0.8	24 I	26 1	
TOS = 40	10/21/08	101.50	58 70	-	42.51	-	< 0.5	< 0.7	< 0.8	< 0.8	< 0.5	< 10	< 0.8	< 0.8	< 0.8	34 J	20 J	
TO = 40 TD = 70	01/30/00		56.13	-	42.51	-	< 0.5	< 1	< 1	< 0.0	< 0.5	< 10	< 0.0	< 1	< 0.8	02 T	122 3	
ID = 70 Dia (in) = 4	01/00/09	99.60	60.19		39.41							< 5				22 J	< 25	PVC Casing Installed
Dia (iii) = 4	07/23/09	<i>))</i> .00	54.88		44 72		< 2	< 2	< 2	<2	< 2	< 10	< 2	< 2	< 2	< 40	< 25	I ve casing instance
	10/02/09		57 58	_	42.02	_	<1	<1	<1	<1	<1	< 5	<1	<1	< 1	25.7.1	639.1	
	01/15/10		45 19		54.41		< 2	< 2	< 2	<2	< 2	< 10	< 2	< 2	< 2	< 300	< 100	
	04/16/10		46.46	_	53.14	_	<1	<1	<1	<1	<1	< 5	<1	<1	< 1	< 300	< 100	
	$7/20/10^{\dagger}$		62.10	_	37 50	_	< 1.00	< 1.00	< 1.00	< 1.00*	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 300	< 100	
	12/08/10		63.31	70.65	36.29	Grab	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 300	< 100	
MW-6	06/12/08	99.84	55.22	-	44.62	-	< 0.5	< 0.7	< 0.8	< 0.8	0.9 J	< 10	< 0.8	< 0.8	< 0.8	47 J	< 20	
TOS = 40	10/21/08		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TD = 60	01/30/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dia (in) = 4	04/09/09	98.09	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PVC Casing Installed
	07/23/09		58.85	-	39.24	-	-	-	-	-	-	-	-	-	-	-	-	
	10/01/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	01/18/10		53.20	-	44.89	-	< 2	< 2	< 2	< 2	< 2	< 10	< 2	< 2	< 2	< 300	< 100	
	04/14/10		54.63	-	43.46	-	< 1	< 1	< 1	< 1	2.70	< 5	< 1	< 1	< 1	< 300	< 100	
	07/19/10		58.85	-	39.24	-	-	-	-	-	-	-	-	-	-	-	-	Insufficent Water to Sample
	12/08/10		58.95	59.45	39.14	Grab	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	-	< 100	
MW-7	06/12/08	99.38	54.79	-	44.59	-	52 J	< 35	< 40	< 40	86,000	81,000	2,300	< 40	530	530	130,000	
TOS = 53	10/21/08		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TD = 80	01/30/09		62.99	-	36.39	-	-	-	-	-	-	-	-	-	-	-	-	
Dia(in) = 4	04/09/09	97.66	64.64	-	33.02	-	11.5	< 2	< 2	2.48	24,900	22,400	490	< 2	204	< 40	< 25	PVC Casing Installed
	07/23/09		59.17	-	38.49	-	< 5	< 5	< 5	< 5	27,800	29,600	636	9.2	474	< 40	1,380	
	10/02/09		61.33	-	36.33	-	1.34	<1	< 1	1.02	11,800	8,490	191	< 1	76.3	57.4 J	1,200	
	01/15/10		51.89	-	45.77	-	< 2	< 5	< 5	< 5	17,400	24,000	208	0.9	191	< 300	234	
	04/10/10 7/20/10 [†]		55.54 62.56	-	44.12	-	< 2	< 2	< 2 00	< 2 00*	14,700	8,440	244	5.00	101	< 200	1,000	
	11/22/10		63.07	- 70.9	33.40	- D&C	2.52	< 2.00	< 2.00	< 2.00*	14,000	14,000	222	< 2.00	144	< 300	1,010	
	12/08/10		64.19	79.0	22.49	ras	< 2.00	< 2.00	< 2.00	< 2.00	14,000	14,000	233	< 2.00	122	232	1,190	Not Sompled
	12/08/10		04.18	_	33.48					_							_	Not Sampled
MW-8	06/12/08	99.7	53.19	-	46.51	-	< 0.5	12	< 0.8	< 0.8	720	78 J	11	< 0.8	23	2,500	1,200	
TOS = 45	10/21/08		59.80	-	39.90	-	< 0.5	< 0.7	< 0.8	< 0.8	270	< 10	< 0.8	< 0.8	10	46 J	260	
TD = 70	01/30/09		59.15	-	40.55	-	< 1	< 1	< 1	< 1	33.6	< 5	< 1	< 1	7.37	140 J	57.7 J	
Dia(in) = 4	04/09/09	97.93	62.23	-	35.70	-	< 1	< 1	< 1	< 1	63.4	< 5	< 1	< 1	8.63	< 40	< 25	PVC Casing Installed



GROUNDWATER ANALYTICAL DATA SUMMARY

50		uo			er (t)					A	nalytes	of Conc	ern (ug	g/l)				
Monitoring Well ID	Date Date	TOC Elevati (ft)	(1J) MLC	DTB (ft)	Elevation (f	Sampling Method	BENZENE	LOLUENE	ETHYL- BENZENE	TOTAL XYLENES*	s MTBE	TBA	TAME	ETBE	DIPE	TPH-DRO	TPH-GRO	Notes / Comments
			3101 Ty	pe i anu	II /iqui		5	1,000	700	10,000	20	no	no	NG	NG		4/	
MW-8	07/23/09		56.25	-	41.68	-	< 2	< 2	< 2	< 2	57.4	< 10	< 2	< 2	44.5	< 40	80.2 J	
(Cont.)	10/01/09		57.72	-	40.21	-	< 1	< 1	< 1	< 1	172	9.84	< 1	< 1	15.9	43.1 J	255	
	01/15/10		50.62	-	47.31	-	< 2	< 2	< 2	< 2	432	51.1	< 2	< 2	29.8	< 300	< 100	
	04/14/10		51.97	-	45.96	-	< 2	< 2	< 2	< 2	23.0	< 10	< 2	< 2	37.1	< 300	101	
	7/20/10		61.62	-	36.31	-	< 2.00	< 2.00	< 2.00	< 2.00*	110	< 50.0	78.1	< 2.00	60.2	422	< 100	
	11/23/10		61.94	69.50	35.99	P&S	< 1.00	< 1.00	< 1.00	< 1.00*	7.98	< 5.00	< 1.00	< 1.00	4.73	< 273	< 100	
	12/08/10		62.22	-	35.71	-	-	-	-	-	-	-	-	-	-	-	-	Not Sampled
MW-9	04/09/09	88.48	55.21	-	33.27	-	< 1	< 1	< 1	< 1	1.13	< 5	< 1	< 1	< 1	< 40	< 25	
TOS = 48	07/23/09		49.52	-	38.96	-	< 2	< 2	< 2	< 2	< 2	< 10	< 2	< 2	< 2	< 40	< 25	
TD = 78	10/01/09		51.96	-	36.52	-	< 1	< 1	< 1	< 1	77.7	23.7	< 1	< 1	1.41	36.8 J	102	
Dia (in) = 4	01/18/10		41.86	-	46.62	-	< 2	< 2	< 2	< 2	< 2	< 10	< 2	< 2	< 2	< 300	< 100	
	04/16/10		43.30	-	45.18	-	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 300	< 100	
	$7/21/10^{\dagger}$		53.64	-	34.84	-	< 1.00	4.36	< 1.00	3.51*	2.44	< 5.00	< 1.00	< 1.00	< 1.00	< 300	< 100	
	12/08/10		54.86	77.70	33.62	LF (66)	< 1.00	< 1.01	< 1.00	< 2.00	2.18	< 5.00	< 1.00	< 1.00	< 1.00	< 300	< 100	
N337 10	0.1/00/00	01.64	59.00		22.55			. 2	. 2		1 750	709	(0, (. 2	16.9	. 10	502	
MW-10	04/09/09	91.64	58.09	-	33.55	-	< 2	< 2	< 2	< 2	1,750	/98	68.6	<2	16.8	< 40	502	
TOS = 40	07/23/09		52.38	-	39.26	-	< 2	< 2	< 2	< 2	116	< 10	2.88	< 2	< 2	< 40	74.2 J	
TD = 80	10/01/09		54.88	-	36.76	-	< 1	< 1	< 1	< 1	227	93.9	4.54	< 1	1.66	65.9 J	357	
Dia(in) = 4	01/18/10		45.00	-	46.64	-	< 2	< 2	< 2	< 2	26	< 10	< 2	< 2	2.1	< 300	< 100	
	04/16/10		46.52	-	45.12	-	< 1	< 1	< 1	< 1	1.80	< 5	< 1	< 1	< 1	< 300	< 100	
	07/21/10'		56.64	-	35.00	-	< 1.00	< 1.00	< 1.00	< 1.00*	88.9	8.72	2.01	< 1.00	1.67	< 300	128	
	11/23/10		57.42	80.00	34.22	LF (68)	< 1.00	< 1.00	< 1.00	< 1.00*	5640	4120	83.6	< 1.00	36.2	< 150	873	
	12/08/10		57.72	-	33.92	-	-	-	-	-	-	-	-	-	-	-	-	Not Sampled
MW-11	04/09/09	94.28	48.75	-	45.53	-	< 1	< 1	< 1	< 1	1.2	< 5	< 1	< 1	< 1	< 40	< 25	
TOS = 47	07/23/09		47.56	-	46.72	-	< 2	< 2	< 2	< 2	< 2	< 10	< 2	< 2	< 2	< 40	< 25	
TD = 77	10/02/09		46.72	-	47.56	-	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	39.4 J	48.6 J	
Dia (in) = 4	01/15/10		41.56	-	52.72	-	< 2	< 2	< 2	< 2	< 2	< 10	< 2	< 2	< 2	< 300	< 100	
	04/14/10		42.62	-	51.66	-	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 300	< 100	
	$7/21/10^{\dagger}$		50.38	-	43.90	-	< 1.00	< 1.00	< 1.00	< 1.00*	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 300	< 100	
	12/08/10		48.92	77.04	45.36	FL (63)	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 300	< 100	
M31/ 10	04/00/00	05.22	44.10		51.15		. 1	. 1	. 1	. 1	. 1	. 5	. 1	. 1	. 1	. 10	. 25	
MW-12	04/09/09	95.55	44.18	-	50.25	-	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 40	< 25	
105 = 44	07/23/09		45.08	-	50.25	-	< 2	< 2	< 2	< 2	< 2	< 10	< 2	< 2	< 2	< 40	< 25	
ID = 82	10/02/09		43.64	-	51.69	-	< 1	< 1	< 1	< 1	< 1	< 5	< 1	<1	< 1	52.0 J	42.7 J	
D1a (1n) = 4	01/15/10		39.06	-	56.27	-	< 2	< 2	< 2	< 2	< 2	< 10	< 2	< 2	< 2	< 300	< 100	
	04/14/10		40.71	-	54.62	-	< 1	< 1	< 1	< 1	< 1	< 5	< 1	<1	< 1	< 300	< 100	
	7/20/10		45.20	-	50.13	-	< 1.00	< 1.00	< 1.00	< 1.00*	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 300	< 100	
	12/08/10		44.58	81.20	50.75	LF (64)	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 300	< 100	
MW-13	04/09/09	98.11	62.20	-	35.91	-	< 2	< 2	< 2	< 2	37,000	6,590	233	< 2	307	< 40	966	
TOS = 49	07/23/09		57.92	-	40.19	-	< 5	< 5	< 5	< 5	14,100	22,500	252	7.9	268	< 40	1,280	
TD = 84	10/02/09		59.18	-	38.93	-	< 1	< 1	< 1	< 1	43,400	32,400	312	< 1	309	64.3 J	1,460	
Dia (in) = 4	01/15/10		50.72	-	47.39	-	< 5	< 5	< 5	< 5	5,080	1,530	76.8	< 5	169	< 300	109	
	04/16/10		52.71	-	45.40	-	< 2	< 2	< 2	< 2	3,080	849	37.6	< 2	98.6	< 300	526	
	7/20/10 [†]		62.12	-	35.99	-	< 2.00	< 2.00	< 2.00	< 2.00*	12,800	2,890	144	3.16	174	320	1,050	
	11/23/10		62.35	84.00	35.76	LF (73)	< 2.00	< 2.00	< 2.00	< 2.00*	7,730	785	37.2	< 2.00	103	< 158	921	
	12/08/10		62.41	-	35.70	-	-	-	-	-	-	-	-	-	-	-	-	Not Sampled
											1	1						····· •



GROUNDWATER ANALYTICAL DATA SUMMARY

04		uo			er (t)			1	1	A	nalytes	of Conc	ern (ug	g/l)	1	1		
Monitoring Well ID	Date	TOC Elevati (ft)	(ij) MLQ	Measured DTB (ft)	Groundwat Elevation (f	Sampling Method	BENZENE	LOLUENE	BENZENE	TOTAL XYLENES*	g MTBE	TBA	TAME	ETBE	DIPE	TPH-DRO	TPH-GRO	Notes / Comments
MIDE GW	Clean-up S	lanuaru	5 101 T y	pe i anu	II Aqui		3	1,000	/00	10,000	20	NG	NG	NG	NG	4/	4/	
MW-14S	07/22/10	91.21	56.35	-	34.86	-	< 1.00	< 1.00	< 1.00	< 1.00*	53.4	< 5.00	1.18	< 1.00	1.15	< 300	< 100	
10S = 40	11/23/10		57.03	100.00	34.18	LF (78)	< 1.00	< 1.00	< 1.00	< 1.00*	5690	4300	89.6	< 1.00	40.2	< 16/	850	
1D = 100	12/08/10		57.30	-	33.91	-	-	-	-	-	-	-	-	-	-	-	-	Not Sampled
Dia(in) = 4																		
MW-14D	10/01/09	92.22	55 36		36.86	-	< 1	< 1	< 1	< 1	7 860	4 740	167	< 1	39.9	36 9 I	1 1 10	
TOS = 201	01/18/10	, 2.22	45.54	_	46.68	-	< 2	< 2	< 2	< 2	1.080	416	30.6	< 2	11.5	< 300	< 100	
TD = 221	04/16/10		47.06	_	45.16	-	< 2	< 2	< 2	< 2	133	< 10	< 2	< 2	< 2	< 300	107	
Dia(in) = 4	7/22/10 [†]		57.19	-	35.03	-	< 1.00	< 1.00	< 1.00	< 1.00*	3.150	1.970	56.7	< 1.00	22.4	< 300	768	Open Borehole
	07/22/10	92.07	_	-	_	-	_	_	_	_	-	-	_	_	_	_	_	PVC Casing Installed
	11/23/10		63.15	212.00	28.92	LF (212)	< 2.00	< 2.00	< 2.00	< 2.00*	3,860	2,670	78.4	< 2.00	29.2	< 600	750	5
	12/08/10		63.68	-	28.39	-	-	-	-	-	-	-	-	-	-	-	-	Not Sampled
				-														
MW-15D	10/01/09	96.98	59.95	-	37.03	-	< 2	< 2	< 2	< 2	10,600	9,890	234	2.04	125	53 J	1,160	
TOS = 46	01/18/10		50.81	-	46.17	-	< 2	< 2	< 2	< 2	6,520	2,910	100	< 2	91.9	< 300	102	
TD = 134	04/14/10		52.48	-	44.50	-	< 2	< 2	< 2	2.74	23,800	14,100	579	2.64	204	< 300	1,450	
Dia (in) = 4	$7/20/10^{\dagger}$		62.36	-	34.62	-	3.88	5.96	< 2.00	3.98	7,390	4,140	43.3	< 2.00	51.6	574	652	Open Borehole
	07/22/10	97.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PVC Casing Installed
	11/23/10		63.41	134.00	34.26	LF (97)	< 2.00	< 2.00	< 2.00	< 2.00*	2,820	1,590	18.6	< 2.00	32.5	< 158	669	
	12/08/10		63.59	-	34.08	-	-	-	-	-	-	-	-	-	-	-	-	Not Sampled
MW-16	10/01/09	89.79	53.13	-	36.66	-	< 1	< 1	< 1	< 1	160	67.4	2.30	< 1	2.46	55.9 J	176	
TOS = 36	01/18/10		43.20	-	46.59	-	< 2	< 2	< 2	< 2	< 2	< 10	< 2	< 2	< 2	< 300	< 100	
TD = 121	04/15/10		44.68	-	45.11	-	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 300	< 100	
Dia(in) = 4	7/21/10'		54.83	-	34.96	-	< 1.00	< 1.00	< 1.00	< 1.00*	17.8	< 5.00	< 1.00	< 1.00	< 1.00	384	< 100	Open Borehole
	0//22/10	89.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PVC Casing Installed
	11/23/10		55.68	121.00	34.10	LF (83)	< 1.00	< 1.00	< 1.00	< 1.00*	130	51	1.81	< 1.00	7.95	< 150	150	Net Consult 1
	12/08/10		55.96	-	33.82	-	-	-	-	-	-	-	-	-	-	-	-	Not Sampled
MW-17	10/01/09	92.61	55.73	-	36.88	-	7.38	< 2	< 2	8.44	31.000	25.800	591	4.24	202	< 20	1.710	
TOS = 35	01/18/10		45.92	-	46.69	-	< 5	< 5	< 5	< 5	11.600	14.600	354	< 5	217	< 300	164	
TD = 121	04/15/10		47.45	-	45.16	-	< 2	< 2	< 2	< 2	6,460	3,890	166	< 2	61.0	< 300	654	
Dia (in) = 4	7/22/10 [†]		57.54	-	35.07	-	< 2.00	< 2.00	< 2.00	< 2.00*	11,100	9,640	291	2.86	136	< 300	1,150	Open Borehole
	07/22/10	92.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PVC Casing Installed
	11/23/10		58.54	121.00	34.30	LF (68)	< 2.00	< 2.00	< 2.00	< 2.00*	13,500	11,800	251	< 2.00	117	< 167	1150	-
	12/08/10		58.78	-	34.06	-	-	-	-	-	-	-	-	-	-	-	-	Not Sampled
MW-18S	11/23/10	98.29	69.05	-	29.24	Grab	< 2.00	106	< 2.00	< 2.00*	17,100	16,500	385	< 2.00	160	984	1,540	
TOS = 45	12/08/10		64.25	70.26	34.04	P&S	< 2.00	129	< 2.00	< 4.00	21,200	24,200	545	< 2.00	163	621	1740	
TD = 70																		
Dia (in) = 2																		
MW-18D	11/23/10	98.31	73.75	-	24.56	LF (125)	< 2.00	< 2.00	< 2.00	<4.00	15,300	14,200	354	< 2.00	138	389	1,420	
TOS = 120	12/08/10		84.72	130.57	13.59	LF (125)	< 2.00	< 2.00	< 2.00	<4.00	9,480	9,600	123	< 2.00	34.3	< 300	1050	
TD = 130																		
Dia (in) = 2																		
IW-18	12/15/10	98.52	-	-	NA	Grab	<2.00	<2.00	<2.00	<4.00	13,500	23,600	199	< 2.00	110	-	-	Screen Interval 63-67



GROUNDWATER ANALYTICAL DATA SUMMARY

50		ion			er (t)			1	ı	Aı	alytes	of Conc	ern (ug	g/l)	1			
Monitorin, Well ID	Date	TOC Elevati (ft)	DTW (ft)	Measured DTB (ft)	Groundwat Elevation (1	Sampling Method	BENZENE	TOLUENE	BENZENE	TOTAL XYLENES*	MTBE	TBA	TAME	ETBE	DIPE	TPH-DRO	TPH-GRO	Notes / Comments
MDE GW	Clean-up Si	andard	s for 1 y	pe I and	11 Aqui	iers	5	1,000	700	10,000	20	NG	NG	NG	NG	47	47	
IW-1D	12/15/10	98.60	-	-	NA	Grab	<2.00	<2.00	<2.00	<4.00	9,520	22,900	100	< 2.00	50.2	-	-	Screen Interval 69-73
IW-2S	12/15/10	98.63	-	-	NA	Grab	<2.00	<2.00	<2.00	<4.00	1,820	4,270	23.7	<2.00	6.422	-	-	Screen Interval 87-91
IW-2D	12/15/10	98.71	-	-	NA	Grab	<2.00	<2.00	<2.00	<4.00	38,900	85,900	675	<2.00	112	-	-	Screen Interval 99-103
IW-3S	12/15/10	98.51	-	-	NA	Grab	<2.00	<2.00	<2.00	<4.00	6,020	15,700	102	<2.00	23.2	-	-	Screen Interval 123-127
IW-3D	12/15/10	98.62	DRY	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	Screen Interval 130-134
VE-1	12/08/10	98.40	DRY	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	Screen Interval 5-25
TF-1	9/19/06	NR	DRV	_	_		_	_	_	_	_	_	_	_	_	_		
11-1	4/19/07	THE	DRY	_	_	_	_	_	_	_	_	-	-	_	-	-	_	
	8/8/07		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10/10/07		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1/16/08		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4/15/08		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6/12/08		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	MW Destroyed in June 2008
TE-2	9/19/06	NR	DRV	_	_	_	_	_	_	_	_	_	_	_	_	_		
11-2	4/19/07	INK	DRY	-		-	-		-	-	-	_	-		-	-	-	
	8/8/07		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10/10/07		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1/16/08		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4/15/08		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6/12/08		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	MW Destroyed in June 2008
TF-3	10/21/08	NR	DRY	-	_	-	-	-	-		-	-	-	-	-	-	-	
	1/30/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4/9/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	7/23/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10/1/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1/15/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4/13/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	7/19/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/8/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TF-4	10/21/08	NR	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1/30/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4/9/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	7/23/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10/1/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1/15/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4/13/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1/19/10		DRI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/0/10		DAT	-		-	-	-	-		-	-	-	-	-	-	-	
TF-5	10/21/08	NR	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1/30/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4/9/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	7/23/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10/1/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1/15/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4/13/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1/19/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/0/10		DKI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



GROUNDWATER ANALYTICAL DATA SUMMARY

MONROVIA BP / GREEN VALLEY CITGO 11791 FINGERBOARD ROAD MONROVIA, MARYLAND

50		on			er t)	E Analytes of Concern (ug/l)												
Monitoring Well ID	Date	TOC Elevati (ft)	DTW (ft)	Measured DTB (ft)	Groundwat Elevation (f	Sampling Method	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES*	MTBE	TBA	TAME	ETBE	DIPE	TPH-DRO	TPH-GRO	Notes / Comments
MDE GW	Clean-up S	tandard	s for Ty	pe I and	II Aqui	fers	5	1,000	700	10,000	20	NG	NG	NG	NG	47	47	
TF-6	10/21/08	NR	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1/30/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4/9/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	7/23/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10/1/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1/15/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4/13/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	7/19/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/8/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TF-7	10/21/08	NR	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1/30/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4/9/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	7/23/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10/1/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1/15/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4/13/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	7/19/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/8/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TF-8	10/21/08	NR	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1/30/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4/9/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	7/23/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10/1/09		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1/15/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4/13/10			-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/9/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/8/10		DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		<u> </u>										<u> </u>						

NA = Not Available

ND = Not Detected

NR = Not Recorded

P&S = Purge well and sample

LF (#) = Low Flow Sampling (Depth of sample interval in feet below TOC)

- = Not Analyzed / Not Available

J = Estimated Value

D = dilution (secondary value)

ft = feet

Concentrations in ug/l

ug/l = micrograms per liter

Top of casing elevation based on arbitrary datum of 100 feet.

Values exceeding the specified MDE GW Clean-up Standards are bolded.

<# = Less than the method detection limit of #

TPH analysis conducted in accordance with EPA Method 8015B.

Volatile organic compound (VOC) analysis conducted in accordance with EPA Method 8260B; only BTEX and oxygenates are summarized $\dagger = DTW$ taken on 07/19/10

*Total Xylenes represents the calculated sum of laboratory results for o-xylene and m,p-xylenes. In the case of non-detect, the highest detection limit was used.

MTBE = Methyl-tertiary butyl-ether TBA = Tertiary butyl alcohol TAME = Tertiary-amyl methyl ether DIPE = Di-isopropyl Ether ETBE = Ethyl tertiary-butyl ether TPH = Total petroleum hydrocarbons GRO = Gasoline-range organics DRO = Diesel-range organics TD = Total depth of well (feet) TOS = Top of screen (feet)



LOW FLOW SAMPLING FIELD PARAMETER SUMMARY

			M	ONROVIA	, MARYL	AND					
Well ID	Sample Location	Date	Time	Depth to Water (fbg)	Total Depth of Well (fbg)	Height of Water Column (ft)	Temp (°C)	Specific Conductance (µs/cm)	Dissolved Oxygen (mg/L)	Hq	ORP (mV)
MW-9	Low Flow (66')	12/08/10	15:00 15:05 15:10 15:15 15:20 15:25	54.86 54.97 54.97 55.04 55.07 55.05 55.07	77.70	22.84	12.93 13.40 13.47 13.45 13.36 13.39	480 528 531 533 533 533 532	7.60 3.88 3.31 2.81 2.54 2.45	4.73 4.67 4.66 4.65 4.65 4.65	253.0 261.6 266.4 270.2 273.6 275.0
MW-10	Low Flow (68')	11/23/10	11:14 11:19 11:24 11:29 11:34 11:39 11:44	57.42 57.55 57.60 57.50 57.50 57.50 57.50 57.52 57.58	80.00	22.58	14.60 14.57 14.56 14.54 14.53 14.52 14.52	- 588 604 599 600 580 579 578	9.78 9.33 10.21 9.36 11.00 8.76 9.13	5.38 5.27 5.23 5.23 5.17 5.16 5.21	305.9 313.7 321.1 328.0 347.3 248.5 349.3
MW-11	Low Flow (63')	12/08/10	14:10 14:15 14:20 14:25 14:30 14:35	48.92 49.17 49.32 49.45 49.60 49.68 49.76	77.04	28.12	12.89 13.78 13.73 13.72 13.74 13.69	280 278 278 279 279 279	8.27 7.69 7.82 7.81 7.79 7.81	5.25 5.25 5.26 2.27 5.27 5.28	222.2 223.9 225.3 226.1 226.3 226.5
MW-12	Low Flow (64')	12/08/10	13:10 13:15 13:20 13:25 13:30 13:35	44.58 44.98 45.38 45.62 45.85 46.24 46.24	81.20	36.62	- 14.45 14.99 14.93 14.92 14.96 15.04	475 476 476 473 471 470	9.41 8.60 8.56 8.55 8.48 8.43	5.12 4.80 4.78 4.76 4.76 4.76 4.75	181.9 229.1 237.4 248.5 258.0 261.5
MW-13	Low Flow (73')	11/23/10	14:32 14:37 14:42 14:47 14:52 14:57 15:02 15:07	62.31 62.46 62.46 62.51 62.48 62.51 62.52 62.53 62.50	84.00	21.69	- 16.65 16.33 16.28 16.31 16.30 16.31 16.33 16.31	585 523 533 539 540 542 541 542	4.55 1.07 0.59 0.52 0.52 1.38 1.46 1.70	5.24 5.10 5.08 5.09 5.11 5.15 5.15 5.14	268.2 298.2 311.3 317.5 318.2 321.3 322.0 325.0



LOW FLOW SAMPLING FIELD PARAMETER SUMMARY

			M	ONROVIA	A, MARYL	AND					
Well ID	Sample Location	Date	Time	Depth to Water (fbg)	Total Depth of Well (fbg)	Height of Water Column (ft)	Temp (°C)	Specific Conductance (µs/cm)	Dissolved Oxygen (mg/L)	Hq	ORP (mV)
MW-14S	Low Flow (78')	11/23/10	9:42 9:47 9:52 9:57 10:02 10:07 10:12	57.03 57.03 57.06 57.10 57.11 57.07 57.12 57.12	100.00	42.97	- 14.71 14.66 14.66 14.67 14.64 14.64 14.64	778 777 758 756 754 738 733	1.87 6.11 5.51 5.03 5.72 5.36 5.43	6.13 5.95 5.85 5.83 5.80 5.72 5.69	208.0 257.5 255.4 255.7 256.0 262.0 265.1
MW-14D	Low Flow (212')	11/23/10	15:10 15:15 15:20 15:25 15:30 15:35 15:40	63.15 64.77 65.21 65.85 66.35 66.77 67.10 67.26	221.00	157.85	- 14.83 14.78 14.74 14.73 14.76 14.79 14.84	883 965 1028 1049 1051 1060 1063	16.30 14.17 9.91 6.52 4.25 3.31 5.02	10.82 11.23 11.35 11.40 11.41 11.41 11.42	- 104.6 93.1 86.6 91.0 99.4 106.4 109.8
MW-15D	Low Flow (97')	11/23/10	11:05 11:10 11:15 11:20 11:25 11:30 11:35 11:40 11:45 11:50 11:55 12:00 12:05	63.41 63.56 63.50 63.60 63.54 63.55 63.48 63.47 63.48 63.55 63.48 63.47 63.48 63.47 63.48 63.53 63.48 63.54 63.48 63.47 63.48 63.47 63.48 63.53 63.49 63.47	134.00	70.59	- 15.84 15.56 15.58 15.69 15.73 15.72 15.72 15.72 15.70 15.71 15.68 15.72 15.75	545 522 523 526 524 524 524 524 526 528 530 529 530 532	8.42 5.02 10.22 7.41 5.09 3.71 3.54 2.80 2.28 2.09 1.91 1.72 1.59	8.90 7.59 7.26 6.89 6.75 6.60 6.51 6.39 6.28 6.21 6.18 6.11 6.07	261.7 186.6 182.7 198.2 195.4 198.7 201.4 205.8 215.4 220.1 221.4 225.6 231.4
MW-16	Low Flow (83')	11/23/10	16:10 16:15 16:20 16:25 16:30 16:35 16:40 16:45	55.68 55.68 55.68 55.68 55.68 55.68 55.68 55.68 55.68	121.00	65.32	- 14.44 14.45 14.47 14.46 14.44 14.45 14.43 14.42	- 713 701 674 672 673 668 664 664	10.99 8.19 8.58 6.81 6.21 5.54 4.85 4.43	8.19 7.25 6.27 5.89 5.74 5.63 5.51 5.48	275.8 313.9 346.4 351.9 351.8 351.0 351.2 350.4



LOW FLOW SAMPLING FIELD PARAMETER SUMMARY

			101		, which is						
Well ID	Sample Location	Date	Time	Depth to Water (fbg)	Total Depth of Well (fbg)	Height of Water Column (ft)	Temp (°C)	Specific Conductance (µs/cm)	Dissolved Oxygen (mg/L)	Hq	ORP (mV)
MW-17	Low Flow (68')	11/23/10	13:20 13:15 13:20 13:25 13:30 13:35 13:40 13:45	58.54 58.54 58.56 58.60 58.53 58.55 58.55 58.55 58.55 58.55	121.00	62.46	- 15.23 15.03 14.95 14.93 14.94 14.96 14.95 14.91	- 682 682 682 682 682 682 681 682	- 14.75 14.19 2.85 1.44 1.22 1.26 1.26 1.26 1.15	6.28 5.55 5.45 5.41 5.39 5.38 5.37 5.36	261.8 307.8 320.5 329.2 334.7 339.0 342.6 349.0
MW-18D	Low Flow (125') Low Flow (125')	11/23/10	8:27 8:32 8:37 8:42 8:47 8:52 10:10 10:15 10:20 10:25 10:30 10:35	73.75 76.65 77.64 78.42 78.68 79.30 80.95 84.72 85.50 87.30 88.34 89.27 89.92 90.44	130.57	56.82 36.62	- 15.48 15.27 15.40 15.52 15.72 15.85 - 12.97 13.64 13.78 13.60 13.59 13.45	7.87 7.88 7.85 7.84 7.84 7.80 - 721 721 721 717 718 716 717	7.40 6.94 6.33 6.13 5.67 5.29 - 8.76 7.57 6.71 6.17 5.74 5.32	7.89 7.41 7.25 7.21 7.17 7.16 7.56 7.45 7.42 7.42 7.42 7.41 7.42	228.6 247.0 263.6 270.1 279.2 285.8 52.5 53.2 53.0 51.9 51.2 50.7

MONROVIA BP / GREEN VALLEY CITGO 11791 FINGERBOARD ROAD MONROVIA, MARYLAND

mV = Millivolts

 μ s/cm = Microsiemens per centimeter

mg/L = Milligrams per liter

^oC = Degees Celcius

fbg = Feet below grade

MW-#S = Shallow well

MW-#D = Deep well

- = Not available



GREEN VALLEY PLAZA SUPPLY WELL AND POET SYSTEM ANALYTICAL DATA SUMMARY

						Analy	tes of	Concern (ug/l)				
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE	TPH-DRO	TPH-GRO
MDE GW Clean-up Type I and II	Standards for Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10	47	47
FR-81-5955INF	01/04/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	-	-
PW-1-West	01/10/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2	-	-
TOC=91.48	09/04/08	< 0.1	< 0.1	< 0.1	< 0.1	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	35 J	< 20
TD=300 feet	10/16/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 32	21 J
BOC = 32 feet	10/29/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	94 J	143
	10/25/10	< 0.500	< 0.500	< 0.500	<1.00	< 0.500	<2.50	< 0.500	< 0.500	< 0.500	< 0.500	-	-
FR-88-1394-INF	01/04/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2	-	-
PW-2-Center	01/10/07	< 0.1	0.1 J	< 0.1	< 0.2	2	25	< 0.1	< 0.1	< 0.1	< 0.2	-	-
TOC=93.91	01/23/08	< 0.1	< 0.1	< 0.1	< 0.2	0.4 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 29	< 20
TD=400 feet	04/17/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 31	< 20
BOC = 47 feet	07/17/08	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	30 J	< 20
	09/04/08	< 0.1	< 0.1	< 0.1	< 0.1	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 32	< 20
	10/16/08	< 0.1	< 0.1	< 0.1	< 0.2	1.5	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 33	22 J
	10/29/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	153 J	100
FR-94-1233-INF	01/04/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	-	-
PW-2-South	01/10/07	< 0.1	< 0.1	< 0.1	< 0.2	12	< 5	0.3 J	< 0.1	0.2 J	< 0.2	-	-
TOC=88.36	01/19/07	< 0.5	< 0.7	< 0.8	< 0.8	1 J	-	-	-	-	-	-	-
TD=400 feet	04/17/07	< 0.1	< 0.1	< 0.1	< 0.2	12	< 5	0.2 J	< 0.1	0.3 J	< 0.2	< 28	21 J
BOC = 40 feet	07/27/07	< 0.1	< 0.1	< 0.1	< 0.2	11	< 5	0.1 J	< 0.1	0.5	< 0.2	29 J	< 20
	10/10/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 28	< 20
	01/23/08	< 1	< 1	< 1	< 2	970	390	28	< 1	4.1 J	< 2	< 28	1,000
	04/15/08	< 0.1	< 0.1	< 0.1	< 0.2	110	6.9 J	1.6	< 0.1	1.3	< 0.2	76 J	900
	07/17/08	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	33 J	< 20
	09/04/08	< 0.1	< 0.1	< 0.1	< 0.1	2.6	< 5	< 0.1	< 0.1	1.8	< 0.2	< 32	< 20
	10/16/08	< 0.1	< 0.1	< 0.1	< 0.2	13	< 5	0.2 J	< 0.1	1.8	< 0.2	< 32	47 J
	01/30/09	< 0.5	< 0.5	< 0.5	< 0.5	7.55	< 2.5	< 0.5	< 0.5	2.37	< 0.5	126 J	< 25
	04/10/09	< 0.5	< 0.5	< 0.5	< 0.5	487	25.0	10.3	< 0.5	3.01	< 0.5	338	307
	0//1//09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	163
	10/29/09	< 0.5	< 0.5	< 0.5	< 0.5	1.04	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	99.2 J	40.6 J
	01/15/10	< 0.5	< 0.5	< 0.5	< 0.5	0.00 < 0.5	< 2.3	< 0.5	< 0.5	0.0	< 0.5	< 300	< 100
	04/15/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.3	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	10/25/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	~ 2.5	< 0.5	< 0.5	<0 500	< 0.5	< 500	< 100 -
	10/25/10	<0.500	<0.500	<0.500	<1.00	<0.500	<2.50	<0.500	<0.500	<0.500	<0.500		
FR-88-1366-INF	01/04/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2	-	-
PW-3-East	01/10/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2	-	-
TOC=95.22	04/17/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 28	< 20
TD=400 feet	07/27/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	40 J	< 20
BUC = 41 leet	10/10/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 3	< 0.1	< 0.1	< 0.1	< 0.2	< 28	< 20
	01/23/08	< 0.1	< 0.1	< 0.1	< 0.2	0.0	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 28	< 20
	04/15/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 30	< 20
	09/04/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 29	< 20
	10/16/08	< 0.1	< 0.1	< 0.1	< 0.1	43	< 5	0.1 I	< 0.1	< 0.1	< 0.2	< 35	< 20
	10/20/00	< 0.1	< 0.1	< 0.1	< 0.2	-05	~ 25	< 0.1 5	< 0.1	< 0.1	< 0.2	96 6 T	84 5 T
	10/25/10	< 0.500	< 0.500	< 0.500	<1.00	< 0.500	<2.50	< 0.500	< 0.500	< 0.500	< 0.500	-	-



GREEN VALLEY PLAZA SUPPLY WELL AND POET SYSTEM ANALYTICAL DATA SUMMARY

						Analy	tes of	Concern (ug/l)				
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE	TPH-DRO	TPH-GRO
MDE GW Clean-up Type I and II A	Standards for Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10	47	47
FR-94-1281-INF	01/04/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	-	-
PW-3-South	01/10/07	< 0.1	< 0.1	< 0.1	< 0.2	0.5 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	-	-
TOC=83.26	01/19/07	< 0.5	< 0.7	< 0.8	< 0.8	< 0.5	-	-	-	-	-	-	-
TD=400 feet	04/17/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 28	< 20
BOC = 40 feet	07/27/07	< 0.1	< 0.1	< 0.1	< 0.2	11	< 5	< 0.1	< 0.1	1.7	< 0.2	35 J	< 20
	10/10/07	< 0.1	< 0.1	< 0.1	< 0.2	4.5	< 5	< 0.1	< 0.1	2.8	< 0.2	< 28	< 20
	01/23/08	< 0.1	< 0.1	< 0.1	< 0.2	9.5	< 5	< 0.1	< 0.1	0.9	< 0.2	< 29	< 20
	04/15/08	< 0.1	< 0.1	< 0.1	< 0.2	1.2	< 5	< 0.1	< 0.1	< 0.1	< 0.2	81 J	530
	07/17/08	< 0.1	< 0.1	< 0.1	< 0.2	11	< 5	< 0.1	< 0.1	0.2 J	< 0.2	< 29	< 20
	10/16/08	< 0.1	< 0.1	< 0.1	< 0.1	11	< 5	0.2 J	< 0.1	0.4 J 0.2 I	< 0.2	< 31	< 20 24 I
	01/30/09	< 0.1	< 0.1	< 0.1	< 0.2	10.1	<25	< 0.5	< 0.1	< 0.2 J	< 0.2	< 33	24 J
	04/10/09	< 0.5	< 0.5	< 0.5	< 0.5	677	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	< 25
	07/17/09	< 0.5	< 0.5	< 0.5	< 0.5	9.34	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	< 25
	10/29/09	< 0.5	< 0.5	< 0.5	< 0.5	16.7	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	103 J	139
	01/15/10	< 0.5	< 0.5	< 0.5	< 0.5	1.23	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	04/15/10	< 0.5	< 0.5	< 0.5	< 0.5	6.85	3.59	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	07/19/10	< 0.5	< 0.5	< 0.5	< 0.5	5.10	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	10/25/10	< 0.500	< 0.500	< 0.500	<1.00	1.52 D1	<2.50	< 0.500	< 0.500	< 0.500	< 0.500	-	-
	02/20/06	0.1	0.1	0.1	0.0	14	~	0.2.1	0.1	0.1.7	0.0		
GVP POET-INF	03/28/06	< 0.1	< 0.1	< 0.1	< 0.2	14	< 5	0.3 J	< 0.1	0.1 J	< 0.2	-	-
Pw-1 (blanded sample)	09/19/00	< 0.1	0.1 J	< 0.1	< 0.2	42	0.0 J 5 1 J	0.5	< 0.1	0.4 J	< 0.2	-	-
(biended sample)	04/05/07	< 0.1	< 0.1	< 0.1	< 0.2	011	5.1 J	< 0.1	< 0.1	< 0.1	< 0.2	- 28	< 20
	02/20/08	< 0.2	< 0.1	< 0.2	< 0.2	74	66	1.5	< 0.2	04J	< 0.2	83 J	82
	09/04/08	< 0.1	< 0.1	< 0.1	< 0.1	10	5.6 J	0.2 J	< 0.1	0.2 J	< 0.2	-	-
	09/08/08	< 0.1	0.2 J	< 0.1	< 0.2	50	29	1.4	< 0.1	0.5 J	< 0.2	-	-
	09/17/08	< 0.1	< 0.1	< 0.1	< 0.2	3.8	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 32	< 20
	10/16/08	< 0.1	< 0.1	< 0.1	< 0.2	6.8	< 5	0.2 J	< 0.1	< 0.1	< 0.2	< 33	< 20
	12/29/08	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	-	< 300	< 100
	01/30/09	< 0.5	< 0.5	< 0.5	< 0.5	2.46	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	130 J	< 25
	03/18/09	< 0.5	< 0.5	< 0.5	< 0.5	14	6.37	< 0.5	< 0.5	< 0.5	< 0.5	< 40	< 25
	04/10/09	< 0.5	< 0.5	< 0.5	< 0.5	7.72	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	< 25
	05/19/09	< 0.5	< 0.5	< 0.5	< 0.5	1.41	< 2.5	< 0.5	< 0.5	< 0.5	-	< 40	< 25
	00/05/09	< 1	< 1	< 1	< 1	2.00	< 3	< 1	< 1	< 1	< 1	< 40	< 25
	08/12/09	< 0.3	< 0.3	< 0.3	< 0.5	3.07	< 2.3	< 0.5	< 0.5	< 0.5	< 0.3	< 40	< 25
	09/04/09	< 0.5	< 0.5	< 0.5	< 0.5	3.17	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	108 T	419I
	10/29/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	64.4 J	44.8 J
	11/06/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	86.2 J	41.0 J
	12/04/09	< 0.5	< 0.5	< 0.5	< 0.5	11.6	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 345	< 100
	01/25/10	< 0.5	< 0.5	< 0.5	< 0.5	0.86	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	02/09/10	< 0.5	< 0.5	< 0.5	< 0.5	0.69	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	03/01/10	< 0.5	< 0.5	< 0.5	< 0.5	2.76	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	04/15/10	< 0.5	< 0.5	< 0.5	< 0.5	0.940	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	05/10/10	< 0.5	< 0.5	< 0.5	< 0.5	1.00	< 2.5	< 0.5	< 0.5	< 0.5	-	< 300	< 100
	06/07/10	< 0.5	< 0.5	< 0.5	< 0.5	1.21	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	07/19/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-
	10/25/10	< 0.500	< 0.500	< 0.500	<1.00	2.96	<2.50	< 0.500	< 0.500	< 0.500	< 0.500	-	-



GREEN VALLEY PLAZA SUPPLY WELL AND POET SYSTEM ANALYTICAL DATA SUMMARY

						Analy	tes of (Concern (ug/l)				
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE	TPH-DRO	TPH-GRO
MDE GW Clean-up S Type I and II A	Standards for Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10	47	47
GVP POET-MID	09/04/08	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2	-	-
	09/08/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2	-	-
	09/17/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2	41 J	< 20
	10/03/08	< 0.5	< 0.7	< 0.8	< 0.8	< 0.5	< 10	-	-	-	-	-	-
	10/16/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 35	< 20
	12/29/08	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	-	< 300	< 100
	01/30/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 80	< 25
	03/18/09	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5	< 2.5	< 0.5	< 0.3	< 0.3	< 0.3	< 40	< 25
	05/19/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	< 25
	06/05/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	< 25
	07/16/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	< 25
	08/12/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	< 25
	09/04/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	83.6 J	33.8 J
	10/29/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	110 J	52 J
	11/06/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	57.6 J	46.0 J
	12/04/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 360	< 100
	01/15/10				carbon	change o	out con	ducted Jan	nuary 1	5, 2010			
	01/25/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	02/09/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	03/01/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	04/15/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	05/10/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	- 0.5	< 300	< 100
	07/19/10	< 0.5	< 0.3	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	10/25/10	< 0.3	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.3	< 0.3	< 0.3	-	-
	10/25/10	<0.500	<0.500	<0.500	<1.00	<0.500	\2.50	<0.500	<0.500	<0.500	<0.500		
GVP POET-EFF	09/04/08	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2	-	-
	09/08/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2	-	-
	09/17/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 31	< 20
	10/03/08	< 0.5	< 0.7	< 0.8	< 0.8	< 0.5	< 10	-	-	-	-	-	-
	10/16/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 33	< 20
	12/29/08	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	-	< 300	< 100
	01/30/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	< 25
	03/18/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	< 25
	04/10/09	< 0.5	< 0.3	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.3	< 0.3	< 0.5	< 40	< 25
	06/05/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	< 25
	07/16/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	< 25
	08/12/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	< 25
	09/04/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	65.6 J	42.2 J
	10/29/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	89.8 J	121
	11/06/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	86.1 J	70.7 J
	12/04/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 390	< 100
	01/15/10				carbon	change o	out con	ducted Ja	nuary 1	5, 2010			
	01/25/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	02/09/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	03/01/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	04/15/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	05/10/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	-	< 300	< 100
	06/07/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
1								~ 11 5					
	10/25/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	-	



GREEN VALLEY PLAZA SUPPLY WELL AND POET SYSTEM ANALYTICAL DATA SUMMARY

MONROVIA BP / FORMER GREEN VALLEY CITGO 11791 FINGERBOARD RD MONROVIA, MARYLAND

						Analy	ytes of	Concern (u	ug/l)				
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE	TPH-DRO	TPH-GRO
MDE GW Clean-up Type I and II A	Standards for Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10	47	47

MTBE = Methyl-tertiary butyl-ether

TPH = Total petroleum hydrocarbons

TOC = Top of well casing elevation (feet)

TAME = Tert-amyl methyl ether

TBA = Tert-butyl alcohol

DIPE = Di-isopropyl Ether

ETBE = Ethyl tert-butyl ether

GRO = Gasoline-range organics

DRO = Diesel-range organics

TD = Total depth of well (feet)

BOC = Bottom of well casing (feet)

ND = Not Detected

NG = No Guideline

- = Not Applicable / Not Available

J = Estimated Value

D = dilution (secondary value)

* = Represents the sum of o-Xylenes and m,p-Xylenes

Concentrations in ug/l

ug/l = micrograms per liter

Values exceeding the specified MDE criteria are bolded.

<# = Less than the method detection limit of #

TPH-GRO analysis conducted in accordance with EPA Method 8015B.

TPH-DRO analysis conducted in accordance with EPA Method 8015B - modified.

Volatile organic compound (VOC) analysis is conducted in accordance with EPA Method 8260B; only BTEX and oxygenates are summarized Effective 11/09, Volatile organic compound (VOC) analysis on POET samples is conducted in accordance with EPA Method 524.2



GREEN VALLEY SHOPPING CENTER SUPPLY WELL ANALYTICAL DATA SUMMARY

		Analyte	es of Con	cern (ug	ç/l)								
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE	TPH-DRO	TPH-GRO
MDE GW Clean-up S Type I and II Ac	tandards for Juifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10	47	47
FR-73-4918-INF	04/05/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 28	< 20
TOC = 79.06	07/18/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 28	< 20
TD = 360 feet	10/11/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 28	< 20
BOC = 42 feet	01/24/08	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 29	< 20
	04/17/08	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 28	< 20
	07/17/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	33 J	< 20
	10/16/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 34	< 20
	01/15/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 100	33.3
	04/10/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	< 25
	07/16/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	< 25
	10/08/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	44.9 J	43.9 J
	01/14/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	04/15/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	07/22/10	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 2.50	< 0.500	< 0.500	< 0.500	< 0.500	< 300	< 100
	10/26/10	< 0.500	< 0.500	< 0.500	<1.00	< 0.500	< 2.50	< 0.500	< 0.500	< 0.500	< 0.500	-	-
FR-73-6674-INF	04/05/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 28	< 20
TOC = 80.82	07/18/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 28	< 20
TD = 200 feet	10/11/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3	< 5	< 0.1	< 0.1	0.2	< 0.2	< 28	< 20
BOC = 63 feet	01/24/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 29	< 20
	04/17/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 29	< 20
	07/17/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	36 J	< 20
	10/16/08	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2	< 33	< 20
	01/15/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	33.2
	04/10/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	< 25
	07/16/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	< 25
	10/08/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	33.4 J	39.5 J
	01/14/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	04/15/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 300	< 100
	07/22/10	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 2.50	< 0.500	< 0.500	< 0.500	< 0.500	< 300	< 100
	10/26/10	< 0.500	< 0.500	< 0.500	<1.00	< 0.500	< 2.50	< 0.500	< 0.500	< 0.500	< 0.500	-	-



GREEN VALLEY SHOPPING CENTER SUPPLY WELL ANALYTICAL DATA SUMMARY

MONROVIA BP/FORMER GREEN VALLEY CITGO 11791 FINGERBOARD ROAD MONROVIA, MARYLAND

		Analyte	s of Con	cern (ug	;/ I)								
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE	TPH-DRO	TPH-GRO
MDE GW Clean-up S Type I and II Ac	tandards for Juifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10	47	47
FR-73-1687-INF	04/17/07	< 0.1	< 0.1	< 0.1	< 0.2	1.3	< 5	< 0.1	< 0.1	6.3	< 0.2	< 27	< 20
TOC = 79.31	07/18/07	< 0.1	< 0.1	< 0.1	< 0.2	0.6	< 5	< 0.1	< 0.1	3.6	< 0.2	< 28	< 20
TD=100 feet	10/11/07	< 0.1	< 0.1	< 0.1	< 0.2	0.5	< 5	< 0.1	< 0.1	3.9	< 0.2	< 28	< 20
BOC = 43 feet	01/24/08	< 0.1	< 0.1	< 0.1	< 0.2	0.5 J	< 5	< 0.1	< 0.1	1.2	< 0.2	< 28	< 20
	04/17/08	< 0.1	< 0.1	< 0.1	< 0.2	0.5	< 5	< 0.1	< 0.1	4.8	< 0.2	< 29	< 20
	07/17/08	< 0.1	< 0.1	< 0.1	< 0.2	7.2	< 5	< 0.1	< 0.1	10	< 0.2	39 J	23 J
	10/16/08	< 0.1	< 0.1	< 0.1	< 0.2	0.6	< 5	< 0.1	< 0.1	3.0	< 0.2	37 J	< 20
	01/15/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	1.03	< 0.5	< 40	35.2
	04/10/09	< 0.5	< 0.5	< 0.5	< 0.5	1.37	< 2.5	< 0.5	< 0.5	1.19	< 0.5	< 40	< 25
	07/16/09	< 0.5	< 0.5	< 0.5	< 0.5	0.960	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 40	< 25
	10/08/09	< 0.5	< 0.5	< 0.5	< 0.5	1.09	< 2.5	< 0.5	< 0.5	5.06	< 0.5	60.8 J	49.5 J
	12/04/09	< 0.5	< 0.5	< 0.5	< 0.5	0.51	< 2.5	< 0.5	< 0.5	5.74	< 0.5	< 315	< 100
	01/14/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	5.9	< 0.5	< 300	< 100
	04/15/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	3.70	< 0.5	< 300	< 100
	07/22/10	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 2.50	< 0.500	< 0.500	1.67	< 0.500	< 300	< 100
	10/26/10	< 0.500	< 0.500	< 0.500	<1.00	< 0.500	< 2.50	< 0.500	< 0.500	1.81	< 0.500	-	-
													l I

NG = No Guideline

- = Not Applicable / Not Available

J = Estimated Value

* = Represents the sum of o-Xylenes and m,p-Xylenes

Concentrations in ug/l

ug/l = micrograms per liter

Values exceeding the specified MDE criteria are **bolded**.

<# = Less than the method detection limit of #

TPH analysis conducted in accordance with EPA Method 8015B.

Volatile organic compound (VOC) analysis conducted in accordance with EPA Method 8260B; only BTEX and oxygenates are summarized

MTBE = Methyl-tertiary butyl-ether TBA = Tert-butyl alcohol TAME = Tert-amyl methyl ether DIPE = Di-isopropyl Ether ETBE = Ethyl tert-butyl ether TPH = Total petroleum hydrocarbons GRO = Gasoline-range organics DRO = Diesel-range organics TOC = Top of well casing elevation (feet) TD = Total depth of well (feet) BOC = Bottom of well casing (feet)



RESIDENTIAL POTABLE WELL ANALYTICAL DATA SUMMARY

	· · · · · · · · · · · · · · · · · · ·	<u> </u>			Anal	ytes of (Concern (ug/l)			
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE
MDE GW Clean-up for Type I and II) Standards Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10
11892BARINF	05/03/07	< 0.1	0.2 J	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
FR815959	10/09/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
TD = unknown	04/17/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
BOC = unknown	07/17/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	10/15/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
11894BARINF	05/03/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
FR735173	10/09/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
TD = unknown	01/24/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
BOC = unknown	04/18/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	07/24/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	10/15/08	< 0.1	0.1 J	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
11896BARINF	05/24/07	< 0.1	< 0.1	< 0.1	< 0.2	0.4 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
FR735011	10/08/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
TD = unknown	01/23/08	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
BOC = unknown	04/16/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	07/24/08	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	10/17/08	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3717BLUEINF	07/06/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3719BLUEINF	07/06/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3723BLUEINF	07/02/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3724BLUEINF	05/29/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3725BLUEINF	07/02/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3726BLUEINF	05/24/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3727BLUEINF	07/02/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3729BLUEINF	05/23/07	< 0.1	0.2 J	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3731BLUEINF	07/02/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3732BLUEINF	07/02/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3733BLUEINF	07/02/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3734BLUEINF	05/01/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2



RESIDENTIAL POTABLE WELL ANALYTICAL DATA SUMMARY

				,	Ana	lytes of C	Concern (ug/l)			
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE
MDE GW Clean-uj for Type I and II	p Standards Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10
3737BLUEINF FR735013 TD = unknown BOC = unknown	05/21/07 10/11/07 11/14/07 12/19/07 01/24/08 03/12/08 04/16/08 07/16/08		< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 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	10/15/08 01/14/09 04/08/09 07/16/09 10/07/09 01/13/10 07/22/10 10/25/10	< 0.1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 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0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	< 0.1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 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0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	< 0.1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 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3739BLUEINF FR730493 TD = 160 BOC = 21	05/21/07 10/09/07 11/13/07 12/19/07 01/24/08 02/13/08 03/12/08 04/16/08 07/16/08 10/15/08 01/14/09 04/08/09 07/16/09 10/07/09 01/13/10 04/14/10 07/21/10 10/25/10	$\begin{array}{c} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 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RESIDENTIAL POTABLE WELL ANALYTICAL DATA SUMMARY

					Anal	lytes of (Concern (ug/l)			
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE
MDE GW Clean-up for Type I and II	Standards Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10
3740BLUEINF	10/15/08	< 0.1	< 0.1	< 0.1	< 0.2	0.4 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
(Cont.)	04/08/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/16/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/09/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	01/13/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/21/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/25/10	< 0.500	< 0.500	< 0.500	<1.00	< 0.500	<2.50	<0.500	< 0.500	<0.500	< 0.500
3913CHAUCERINF	07/06/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3915CHAUCERINF	06/18/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3919CHAUCERINF	05/24/07	< 0.1	0.2 J	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
4002CORNINF	07/02/07	< 0.1	< 0.1	< 0.1	< 1	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3991DAISYINF	05/31/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3992DAISYINF	05/23/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3993DAISYINF	05/29/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3994DAISYINF	06/18/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3995DAISYINF	05/24/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3996DAISYINF	07/02/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3997DAISYINF	05/29/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3979FARMINF	05/03/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
FR732615	10/11/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
TD = 150	11/14/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
BOC = 23	12/19/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	01/24/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	02/13/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	03/12/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	04/16/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	10/15/08	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	01/15/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/16/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	01/13/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/27/10	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 2.50	< 0.500	< 0.500	< 0.500	< 0.500
	10/25/10	< 0.500	< 0.500	< 0.500	<1.00	60.7	<2.50	< 0.500	< 0.500	3.07	< 0.500



RESIDENTIAL POTABLE WELL ANALYTICAL DATA SUMMARY

					Anal	ytes of C	Concern (ug/l)			
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE
MDE GW Clean-up for Type I and II) Standards Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10
3981FARMINF FR732882 TD = 150 BOC = 22	06/18/07 10/09/07 07/17/08 10/15/08 01/15/09 07/17/09 01/13/10 07/19/10	$\begin{array}{c} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	$\begin{array}{c} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	$\begin{array}{c} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	$\begin{array}{c} < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	$\begin{array}{c} 0.1 \text{ J} \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	< 5 < 5 < 5 < 2.5 < 2.5 < 2.5 < 2.5 < 2.5 < 2.5	$\begin{array}{c} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	$\begin{array}{c} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	$\begin{array}{c} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	$\begin{array}{c} < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$
3983FARMINF FR732884 TD = 150 BOC = 55	07/06/07 10/09/07 11/13/07 12/19/07 01/23/08 02/13/08 04/16/08 10/15/08 01/15/09 07/16/09 01/13/10 07/21/10	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 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0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	$\begin{array}{c} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	$\begin{array}{c} < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	$\begin{array}{c} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	< 5 < 5 < 5 < 5 < 5 < 5 < 5 < 2.5 < 2.5 < 2.5 < 2.5 < 2.5	$\begin{array}{c} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 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< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	$\begin{array}{c} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	$\begin{array}{c} < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$
3984FARMINF FR738553 TD = 160 BOC = 26	05/11/07 10/10/07 11/14/07 12/19/07 01/25/08 02/20/08 03/12/08 07/16/08 10/15/08 01/14/09 07/15/09 01/14/10 07/19/10	$\begin{array}{c} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	$< 0.1 \\< 0.1 \\< 0.1 \\< 0.1 \\< 0.1 \\< 0.1 \\< 0.1 \\< 0.1 \\< 0.1 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 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\\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\$	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	$\begin{array}{c} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	< 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 2.5 < 2.5 < 2.5 < 2.5 < 2.5 < 2.5	$\begin{array}{c} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 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< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	$\begin{array}{c} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	$\begin{array}{c} < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$
3984AFARMINF FR950162 TD = 300 BOC = 51	10/10/07 04/16/08 07/16/08 10/15/08 01/14/09 07/15/09 01/14/10 07/19/10		$\begin{array}{c} 0.2 \text{ J} \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	< 0.1 < 0.1 < 0.1 < 0.1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5		< 0.1 < 0.1 < 0.1 < 0.1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	< 5 < 5 < 5 < 2.5 < 2.5 < 2.5 < 2.5 < 2.5 < 2.5		< 0.1 < 0.1 < 0.1 < 0.1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5		$\begin{array}{c} < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$



RESIDENTIAL POTABLE WELL ANALYTICAL DATA SUMMARY

				,	Ana	ytes of C	Concern (ug/l)			
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE
MDE GW Clean-up for Type I and II	o Standards Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10
3985FARMINF	05/07/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
FR732894	10/08/07	< 0.1	0.1 J	0.6	3.1	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
TD = 150	11/13/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
BOC = 22	12/19/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	03/12/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	04/18/08	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	10/15/08	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	01/15/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	04/08/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/16/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/08/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	01/13/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	04/14/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/20/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/27/10	< 0.500	< 0.500	< 0.500	<1.00	< 0.500	<2.50	< 0.500	< 0.500	< 0.500	< 0.500
3987FARMINF	05/07/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
FR732897	07/27/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
TD = 150	10/09/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
BOC = 23	11/14/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	01/25/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	02/27/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	03/12/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	04/17/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	10/17/08	< 0.1	0.3 J	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	11/21/08	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	04/10/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/09/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	01/15/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/23/10	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 2.50	< 0.500	< 0.500	< 0.500	< 0.500
	10/26/10	< 0.500	< 0.500	< 0.500	<1.00	< 0.500	<2.50	< 0.500	< 0.500	< 0.500	< 0.500
3989FARMINE	05/07/07	< 0.1	< 0.1	< 0.1	< 0.2	02I	< 5	< 0.1	< 0.1	< 0.1	< 0.2
FR732664	07/27/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
TD = 150	10/12/07	< 0.1	< 0.1	< 0.1	< 0.2	0.23	< 5	< 0.1	< 0.1	< 0.1	< 0.2
BOC = 23	11/19/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 I	< 5	< 0.1	< 0.1	< 0.1	< 0.2
DOC - 25	12/19/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	01/23/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	02/20/08	< 0.1	< 0.1	< 0.1	< 0.2	021	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	03/12/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	04/18/08	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	01/30/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 25	< 0.5	< 0.5	< 0.5	< 0.5
	04/10/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/16/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/08/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5



RESIDENTIAL POTABLE WELL ANALYTICAL DATA SUMMARY

					Ana	lytes of (Concern ((ug/l)			
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE
MDE GW Clean-up for Type I and II	o Standards Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10
3989FARMINF	01/14/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
(Cont.)	04/14/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/27/10	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 2.50	< 0.500	< 0.500	< 0.500	< 0.500
	10/26/10	< 0.500	< 0.500	< 0.500	<1.00	< 0.500	<2.50	< 0.500	< 0.500	< 0.500	< 0.500
3990FARMINF	05/01/07	0.4 J	ND	ND	0.2 J	1.100	590 J	33 J	ND	6.2	ND
FR735449	05/16/07	< 0.3	< 0.3	< 0.3	< 0.5	770	440	25	< 0.3	4.5	< 0.5
TOC = 64.90	06/21/07	< 1	< 1	< 1	< 2	1.100	590	33	< 1	5.8	< 2
TD = 80 feet	07/18/07	< 2	< 2	< 2	< 4	1.500	720	34	< 2	5.7 J	< 4
BOC = unknown	08/08/07	< 1	< 1	< 1	< 2	1.300	500	44	< 1	5.8	< 2
	09/26/07	< 2	< 2	< 2	< 4	950	470 J	24	< 2	4.7 J	< 4
	10/10/07	< 2	< 2	< 2	< 4	1.200	560	33	< 2	59I	< 4
	11/14/07	< 1	< 1	< 1	< 2	1.200	520	36	< 1	66	< 2
	12/19/07	< 2	< 2	< 2	< 4	1.300	730	37	< 2	65 I	< 4
	01/23/08	< 1	< 1	< 1	< 2	1,400	530	40	< 1	54	< 2
	02/13/08	< 1	< 1	< 1	< 2	1,400	610	42	< 1	57	< 2
	03/12/08	< 1	< 1	< 1	< 2	1 400	510	38	< 1	5.6	$\langle 2 \\ \langle 2 \rangle$
	04/16/08	< 1	< 1	< 1	$< \frac{2}{2}$	920	580	28	< 1	5.0	$< \frac{2}{2}$
	05/21/08	< 1	< 1	< 1	$< \frac{2}{2}$	920	610	30	< 1	4 8 I	$< \frac{2}{2}$
	06/26/08	< 1	< 1	< 1	< 10	1 100	540 I	28	< 1	0J	< 10
	07/16/08	< 1	< 1	< 1	< 10	1,100	510	20	< 1	56	< 10
	08/20/08	< 1	< 1	< 1	$\langle 2 \rangle$	1,100	520	31	< 1	17 I	$\langle 2 \rangle$
	09/25/08	< 0.5	< 0.5	< 0.5	$< \frac{2}{1}$	1,100	520 620	36	< 0.5	/J	< 2
	10/15/08	< 0.5	< 0.5	< 0.5	<1	1,300	450	30	< 0.5	5.0	< 1
	10/15/08	< 1	< 1	< 1	$< \frac{2}{2}$	1,200	430	33 45	< 1	0.2	$\langle 2 \rangle$
	11/19/08	< 1	< 1	< 1	< 2	1,900	620	45	< 1	9.5	< 2
	12/11/08	< 1	< 1	< 1	< 2	1,400	020 607	20.7	< 1	7.0 8.60	< 2
	01/14/09	0.82	< 0.5	< 0.5	< 0.5	1,520	007	39.7	< 0.5	8.02 10.5	< 0.5
	02/11/09	0.89	< 0.5	< 0.5	< 0.5	2,090	020	45.1	< 0.5	10.5	< 0.5
	03/18/09	0.77	< 0.5	< 0.5	< 0.5	1,500	937	20.5 19.2	< 0.5	11.7	< 0.5
	04/08/09	0.930	< 0.5	< 0.5	< 0.5	2,010	012	40.5	< 0.5	10.0	< 0.5
	10/07/09	0.830	< 0.5	< 0.5	< 0.5	1,300	915 675	40.8	< 0.5	12.4	< 0.5
	10/07/09	0.580	< 0.5	< 0.5	< 0.5	1,420	195	27.6	< 0.5	9.07	< 0.5
	01/13/10 04/14/10	0.510	< 0.5	< 0.5	< 0.5	1,200	403	27.0	< 0.5	7.47	< 0.5
	04/14/10	< 0.5	< 0.5	< 0.5	< 0.5	1,030	405	24.4	< 0.5	7.41 9.20	< 0.5
	$\frac{07}{21}$	< 0.3	< 0.5	< 0.5	< 0.3	1,//0	550	22.0	< 0.5	0.39	< 0.3
	10/20/10	< 0.500	< 0.500	< 0.500	<1.00	1,890	5/1	27.5	< 0.500	8.99	< 0.500
	12/08/10	<0.500	<0.500	<0.500	<1.00	2,040	5/9	38.4	<0.500	15	<0.500
3991FARMINF	05/09/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
FR732663	07/27/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
TD = 150	10/11/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3	< 5	< 0.1	< 0.1	< 0.1	< 0.2
BOC = 21	11/19/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	01/24/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	02/13/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	03/12/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2	< 5	< 0.1	< 0.1	< 0.1	< 0.2



RESIDENTIAL POTABLE WELL ANALYTICAL DATA SUMMARY

		Analytes of Concern (ug/l)									
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE
MDE GW Clean-up for Type I and II) Standards Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10
MDE GW Clean-up for Type I and II 3991FARMINF (Cont.) 3992FARMINF unknown well ID TOC = 64.02 TD = unknown BOC = unknown	Standards Aquifers 04/16/08 07/16/08 10/15/08 01/14/09 04/09/09 07/16/09 10/07/09 01/13/10 04/14/10 07/16/09 10/07/09 01/13/10 04/14/10 07/19/10 10/25/10 05/15/07 05/30/07 06/13/07 07/18/07 08/29/07 09/26/07 10/31/07 11/07/07 12/19/07 01/16/08 02/13/08 03/12/08 04/16/08 05/05/08 06/18/08 07/16/08 08/20/08	$\begin{array}{c} 5 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 0.3 \\ < 0.5 \\ < 1 \\ \end{array}$	1,000 < 0.1 < 0.1 < 0.1 < 0.5 < 0.1 < 1 <	$\begin{array}{c} \textbf{700} \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 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2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5 \\ < 2.5$	$\begin{array}{c} \mathbf{NG} \\ < 0.1 \\ 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0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\$	$\begin{array}{c} \text{NG} \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 1 \\ < 0.3 \\ < 0.5 \\ < 1 \end{array}$	$\begin{array}{c} \text{NG} \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\$	$\begin{array}{c} 10 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.2 \\ < 2 \\ < 2 \\ < 2 \\ < 2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.2 \\ < 0.5 \\ < 1 \\ < 2 \end{array}$
	08/20/08 09/17/08 10/15/08 11/05/08 12/10/08 01/14/09 02/11/09 03/18/09 04/15/09 07/15/09 10/07/09 01/13/10 04/12/10 07/21/10 10/27/10 11/30/10		$ < 1 \\ < 1 \\ < 1 \\ 1.1 J \\ 0.1 J \\ < 1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0$		< 2 < < 2 < < 2 < < 0.2 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 0.5 < < 1.00 < 1.00 < 1.00	1,000 1,300 < 0.1 1,400 1,750 1,710 1,460 2,290 1,020 1,110 381 536 1,280 1,660 1,370	$\begin{array}{c} 400\\ 1,100\\ 500\\ 140\\ 900\\ 1,230\\ 930\\ 906\\ 1,230\\ 413\\ 372\\ 15.6\\ 107\\ 98.6\\ 286\\ 436\\ \end{array}$	23 24 33 < 0.1 39 31.4 31.8 31.3 35.9 14.8 16.8 6.5 7.87 13.0 21.3 22.3		$\begin{array}{c} 4.3 \text{ J} \\ 4.2 \text{ J} \\ 6.2 \\ < 0.1 \\ 8.2 \\ 8.16 \\ 8.65 \\ 10.7 \\ 8.22 \\ 7.07 \\ 6.06 \\ 3.57 \\ 3.92 \\ 6.58 \\ 8.49 \\ 9.36 \end{array}$	



RESIDENTIAL POTABLE WELL ANALYTICAL DATA SUMMARY

				i	Anal	ytes of C	Concern ((ug/l)			
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE
MDE GW Clean-up for Type I and II	o Standards Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10
3993FARMINF FR732474 TD = 150 BOC = 23	04/24/07 07/27/07 10/08/07 11/14/07 12/19/07 01/24/08 02/13/08 03/12/08 04/16/08 10/16/08 01/15/09 04/09/09 07/17/09 10/07/09 01/13/10 07/19/10	$\begin{array}{c} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 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< 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 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3994FARMINF FR732625 TOC = 77.88 TD = 160 feet BOC = 21 feet	04/24/07 05/07/07 05/16/07 06/13/07 07/02/07 08/08/07 09/26/07 10/12/07 11/14/07 12/19/07 01/23/08 02/13/08 02/13/08 03/12/08 04/16/08 05/21/08 06/26/08 07/16/08 08/20/08 09/17/08 10/15/08 11/19/08 12/11/08 01/14/09 02/11/09 03/18/09	< 0.300 < 1 < 1 < 0.5 < 2 < 2 < 1 < 2 < 2 < 1 < 0.5 < 0.5 < 0.5 < 0.5 < 1 < 0.1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 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0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\$	< 0.300 < 1 < 1 < 0.5 < 2 < 2 < 1 < 2 < 2 < 1 < 0.5 < 0.5 < 0.5 < 0.1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	<1.00 <2 <2 <1 <4 <4 <2 <4 <2 <2 <1 <1 <2 <0.2 <2 <2 <2 <2 <2 <2 <2 $<$	 <0.500 480 690 1,000 1,200 1,200 1,100 1,100 1,100 930 850 750 670 610 360 240 790 1,200 1,100 920 1,300 1,600 1,300 1,300 1,360 1,100 	 300 340 540 560 630 420 680 590 430 490 330 370 250 260 130 480 580 640 710 570 1,200 810 786 741 768 	 <0.300 17 18 28 31 30 33 27 26 25 23 20 19 16 9.7 6.5 21 28 27 26 33 38 28 20.2 26.9 22.1 	< 0.300 < 1 < 1 < 0.5 < 2 < 2 < 1 < 2 < 2 < 1 < 0.5 < 0.5 < 0.5 < 1 < 0.1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	 <0.300 3.3 3.2 J 4.6 4.9 J 4.8 J 4.3 J 4.6 J 4.5 4.6 J 4.5 4.6 J 4.7 2.7 2.4 2 J 1.7 4 J 5.9 4.2 J 5.7 6.2 8.3 6.4 5.5 7.53 8.18 	$\begin{array}{c} < 0.300 \\ < 2 \\ < 2 \\ < 1 \\ < 4 \\ < 2 \\ < 4 \\ < 2 \\ < 4 \\ < 2 \\ < 4 \\ < 2 \\ < 2 \\ < 1 \\ < 1 \\ < 2 \\ < 0.2 \\ < 2 \\ < 2 \\ < 2 \\ < 2 \\ < 2 \\ < 2 \\ < 2 \\ < 2 \\ < 2 \\ < 2 \\ < 2 \\ < 2 \\ < 2 \\ < 2 \\ < 2 \\ < 2 \\ < 2 \\ < 2 \\ < 2 \\ < 2 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$
	02/11/09 03/18/09 04/15/09 07/15/09	0.73 0.58 0.560 < 0.5	< 0.5 < 0.5 < 0.5 < 0.5	< 0.5 < 0.5 < 0.5 < 0.5	< 0.5 < 0.5 < 0.5 < 0.5	1,360 1,100 1,780 861	741 768 1,140 660	26.9 22.1 24.8 22	< 0.5 < 0.5 < 0.5 < 0.5	7.53 8.18 5.92 8.14	< 0.5 < 0.5 < 0.5 < 0.5



RESIDENTIAL POTABLE WELL ANALYTICAL DATA SUMMARY

				·	Ana	lytes of (Concern ((ug/l)			
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE
MDE GW Clean-up for Type I and II	o Standards Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10
3994FARMINF	10/07/09	< 0.5	< 0.5	< 0.5	< 0.5	988	389	14.8	< 0.5	4.87	< 0.5
(Cont.)	01/13/10	< 0.5	< 0.5	< 0.5	< 0.5	578	195	10.5	< 0.5	4.08	< 0.5
	04/14/10	< 0.5	< 0.5	< 0.5	< 0.5	970	438	18.5	< 0.5	7.40	< 0.5
	07/21/10	< 0.5	< 0.5	< 0.5	< 0.5	878	284	16.5	< 0.5	8.08	< 0.5
	10/25/10	< 0.500	< 0.500	< 0.500	<1.00	1,990	346	15.2	< 0.500	6.75	< 0.500
3995FARMINF FR732475 TD = 185	04/16/07 07/27/07	< 0.1 < 0.1	< 0.1 < 0.1	< 0.1 < 0.1	< 0.2 < 0.2 < 0.2	0.2 J 0.2 J	< 5 < 5	< 0.1 < 0.1	< 0.1 < 0.1	0.1 J < 0.1	< 0.2 < 0.2 < 0.2
BOC = 23	10/12/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	11/14/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	12/19/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	0.1 I	< 0.2
	01/24/08 02/13/08	< 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1	< 0.2 < 0.2 < 0.2	< 0.1 0.2 J	< 5 < 5	< 0.1 < 0.1 < 0.1	< 0.1 < 0.1	0.1 J < 0.1	<0.2 < 0.2 < 0.2
	03/12/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2	< 5	< 0.1	< 0.1	0.1	< 0.2
	04/14/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	0.2 J	< 0.2
	10/15/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	0.2 J	< 0.2
	01/14/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	04/08/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/17/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/07/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	01/14/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/27/10 10/25/10	< 0.500 < 0.500	< 0.500 < 0.500	< 0.500 < 0.500	< 0.5 < 0.500 <1.00	< 0.5 < 0.500 < 0.500	< 2.50 < 2.50	< 0.500 < 0.500	< 0.500 < 0.500	< 0.500 < 0.500	< 0.500 < 0.500
3996FARMINF	04/16/07	0.2 J	< 0.1	< 0.1	< 0.2	370	260 J	12	< 0.1	2	< 0.2
FR732624	05/03/07	< 0.5	< 0.5	< 0.5	< 1	430	250	12	< 0.5	1.9 J	< 1
TOC = 79.68	06/13/07	< 0.5	< 0.5	< 0.5	< 1	360	220	11	< 0.5	1.9 J	< 1
TD = 150 feet	07/18/07	< 1	< 1	< 1	< 2	390	230 J	9.3	< 1	1.6 J	< 2
BOC = 21 feet	08/08/07	< 0.4	< 0.4	< 0.4	< 0.8	320	190	9.3	< 0.4	1.6 J	< 0.8
	09/27/07 10/12/07	< 0.4	< 0.4	< 0.4	< 0.8	330 250	220 180	8.6 7.6	< 0.4	1.6 J 1.4	< 0.8
	11/14/07 12/19/07 02/13/08	< 0.3 < 0.2 0.1 J	< 0.3 < 0.2 < 0.1	< 0.3 < 0.2 < 0.1	< 0.5 < 0.4 < 0.2	240 230 220	140 140 110	6.2 6.5	< 0.3 < 0.2 < 0.1	1.1 J 1.3	< 0.5 < 0.4 < 0.2
	03/25/08	0.1 J 0.1 < 0.2	< 0.1 < 0.1 < 0.2	< 0.1 < 0.1 < 0.2	< 0.2 < 0.2 < 0.4	160 150	100 100 99	5.8 5.3 4.2	< 0.1 < 0.1 < 0.2	0.9 0.9 0.8 I	< 0.2 < 0.2 < 0.4
	04/18/08 05/21/08	< 0.1 0.1 J	< 0.1 < 0.1	< 0.1 < 0.1	< 0.1 < 0.2 < 0.2	< 0.1 180	< 5 130	< 0.1 6.2	< 0.1 < 0.1	< 0.1 1.1	< 0.2 < 0.2
	06/18/08	< 0.3	< 0.3	< 0.3	< 0.5	310	230	9	< 0.3	1.7	< 0.5
	07/23/08	< 0.5	< 0.5	< 0.5	< 1	350	220	8.4	< 0.5	1.7 J	< 1
	08/20/08	0.3 J	< 0.1	< 0.1	< 0.2	380	240	10	< 0.1	1.9	< 0.2
	09/17/08	< 0.5	< 0.5	< 0.5	< 1	290	180	6.6	< 0.5	1.6 J	< 1
	10/15/08	0.3 J	< 0.3	< 0.3	< 0.5	370	220	9.4	< 0.3	1.9	< 0.5
	11/19/08	< 0.3	< 0.3	< 0.3	< 0.5	360	260	7.9	< 0.3	1.9	< 0.5



RESIDENTIAL POTABLE WELL ANALYTICAL DATA SUMMARY

		Analytes of Concern (ug/l)									
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE
MDE GW Clean-up for Type I and II	o Standards Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10
3996FARMINF	12/29/08	< 0.5	< 0.5	< 0.5	< 0.5	276	91.7	5.23	< 0.5	1.63	-
(Cont.)	01/14/09	< 0.5	< 0.5	< 0.5	< 0.5	289	107	4.97	< 0.5	1.56	< 0.5
	01/30/09	< 0.5	< 0.5	< 0.5	< 0.5	379	104	-	-	-	-
	02/11/09	< 0.5	< 0.5	< 0.5	< 0.5	208	17	3.39	< 0.5	1.35	< 0.5
	03/18/09	< 0.5	< 0.5	< 0.5	< 0.5	222	22.3	2.66	< 0.5	1.75	< 0.5
	04/08/09	< 0.5	< 0.5	< 0.5	< 0.5	182	7.35	2	< 0.5	1.35	< 0.5
	07/15/09	< 0.5	< 0.5	< 0.5	< 0.5	242	32.5	2.58	< 0.5	2.33	< 0.5
	10/08/09	< 0.5	< 0.5	< 0.5	< 0.5	23.7	< 2.5	< 0.5	< 0.5	1.1	< 0.5
	01/14/10	< 0.5	< 0.5	< 0.5	< 0.5	38.3	8.7	< 0.5	< 0.5	2.08	< 0.5
	04/16/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/21/10	< 0.5	< 0.5	< 0.5	< 0.5	29.9	< 2.5	< 0.5	< 0.5	2.30	< 0.5
	10/26/10	< 0.500	< 0.500	< 0.500	<1.00	9.4	< 2.50	< 0.500	< 0.500	1.39	< 0.500
3997FARMINF	04/16/07	< 0.1	< 0.1	< 0.1	< 0.2	14	< 5	0.1 J	< 0.1	1.9	< 0.2
FR732472	05/01/07	< 0.1	< 0.1	< 0.1	< 0.2	3.7	< 5	< 0.1	< 0.1	0.2	< 0.2
TOC = 80.16	06/08/07	< 0.1	< 0.1	< 0.1	< 0.2	140	19 J	2.2	< 0.1	2.7	< 0.2
TD = 140 feet	07/17/07	< 1	< 1	< 1	< 2	710	300	20	< 1	5.8	< 2
BOC = 23 feet	08/08/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	09/26/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	340	< 0.1	< 0.1	< 0.1	< 0.2
	10/10/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	490	< 0.1	< 0.1	< 0.1	< 0.2
	11/14/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	820	< 0.1	< 0.1	< 0.1	< 0.2
	12/19/07	1.1 J	< 1	< 1	< 2	3,300	1,500	100	< 1	18	< 2
	01/16/08	< 2	< 2	< 2	< 4	2,700	1,000	93	< 2	13	< 4
	02/13/08	< 0.5	< 0.5	< 0.5	< 1	640	210	18	< 0.5	4.0	< 1
	03/12/08	< 0.1	< 0.1	< 0.1	< 0.2	130	7.4	3.5	< 0.1	1.6	< 0.2
	04/16/08	< 0.1	< 0.1	< 0.1	< 0.2	110	24 J	2.3	< 0.1	1.4	< 0.2
	05/21/08	< 0.1	< 0.1	< 0.1	< 0.2	130	18 J	3.1	< 0.1	1.5	< 0.2
	06/18/08	< 0.1	< 0.1	< 0.1	< 0.2	56	13 J	1	< 0.1	0.9	< 0.2
	07/16/08	< 0.5	< 0.5	< 0.5	< 1	460	77 J	8.2	< 0.5	4.2	< 1
	08/20/08	< 0.5	< 0.5	< 0.5	< 1	690	200	20	< 0.5	4.8	< 1
	09/17/08	< 0.5	< 0.5	< 0.5	< 1	1,100	400	30	< 0.5	7.0	< 1
	10/15/08	< 0.5	< 0.5	< 0.5	< 1	1,100	400	33	< 0.5	6.4	< 1
	11/19/08	0.9 J	< 0.5	< 0.5	< 1	2,100	980	63	< 0.5	14	< 1
	12/10/08	1.4 J	<1	<1	<2	2,800	1,500	80	<1	16	<2
	12/29/08	< 0.5	< 0.5	< 0.5	< 0.5	500	66.2	-	-	-	-
	01/14/09	< 0.5	< 0.5	< 0.5	< 0.5	493	79.2	8.95	< 0.5	3	< 0.5
	01/30/09	< 0.5	< 0.5	< 0.5	< 0.5	426	61.3	-	-	-	-
	02/11/09	< 0.5	< 0.5	< 0.5	< 0.5	1,110	2/4	23.3	< 0.5	1.7	< 0.5
	03/18/09	0.89	< 0.5	< 0.5	< 0.5	2,060	1,120	53.3	< 0.5	17/ 14-7	< 0.5
	04/08/09	0.870	< 0.5	< 0.5	< 0.5	5,080	1,700	61.8	< 0.5	14.5	< 0.5
	07/15/09 10/07/00	< 0.5	< 0.5	< 0.5	< 0.5	130	21.5 03.1	1.89	< 0.5	3.04 6.40	< 0.5
	10/07/09	< 0.3	< 0.3	< 0.3	< 0.3	000	73.1	0.22	< 0.3	0.49	< 0.3



RESIDENTIAL POTABLE WELL ANALYTICAL DATA SUMMARY

					Ana	lytes of (Concern ((ug/l)			
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE
MDE GW Clean-up for Type I and II	o Standards Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10
3997FARMINF	01/13/10	< 0.5	< 0.5	< 0.5	< 0.5	21.5	< 2.5	< 0.5	< 0.5	1.35	< 0.5
(Cont.)	04/14/10	< 0.5	< 0.5	< 0.5	< 0.5	6.87	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/21/10 10/25/10	< 0.5 < 0.500	< 0.5 < 0.500	< 0.5 < 0.500	< 0.5 <1.00	20.5 60.7	< 2.5 < 2.50	< 0.5 < 0.500	< 0.5 < 0.500	< 0.5 3.07	< 0.5 < 0.500
3998FARMINF	04/16/07	< 0.1	< 0.1	< 0.1	< 0.2	0.7	< 5	< 0.1	< 0.1	< 0.1	< 0.2
FR732623	07/27/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
TD = 400	10/09/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
BOC = 22	11/14/07	< 0.1	< 0.1	< 0.1	< 0.2	0.4 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	01/25/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	02/13/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	03/12/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	04/16/08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	07/16/08	< 0.1	< 0.1	< 0.1	< 0.2	1.4	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	10/1//08	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	01/15/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	04/10/09	< 0.5	< 0.5	< 0.3	< 0.5	< 0.5	< 2.5	< 0.3	< 0.5	< 0.5	< 0.5
	10/09/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	01/15/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/27/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/25/10	< 0.500	< 0.500	< 0.500	<1.00	< 0.500	< 2.50	< 0.500	< 0.500	< 0.500	< 0.500
11703FININF	07/02/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
11711FININF	05/24/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
11902FININF	03/16/07	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 5	< 0.5	< 0.5	-	< 0.5
	04/06/07	< 0.1	< 0.1	< 0.1	< 0.2	0.8	< 5	< 0.1	< 0.1	< 0.1	< 0.2
11906FININF	04/25/07	< 0.1	< 0.1	< 0.1	< 0.2	0.4 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3815GREENINF	07/06/07	< 0.1	< 0.1	< 0.1	< 0.2	1.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3816GREENINF	07/06/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3817GREENINF	07/02/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3818GREENINF	05/07/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3819GREENINF	05/31/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3820GREENINF	05/09/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2



RESIDENTIAL POTABLE WELL ANALYTICAL DATA SUMMARY

	Analytes of Concern (ug/l)										
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE
MDE GW Clean-up for Type I and II) Standards Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10
3821GREENINF	05/31/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	05/05/05	0.1	0.1	0.1				0.1	0.1	0.1	
3822GREENINF	05/07/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3823GREENINF	05/09/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
2825GREENINE	05/09/07	< 0.1	< 0.1	< 0.1	< 0.2	021	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3023UREEMINI	05/07/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 3	~ 5	< 0.1	< 0.1	< 0.1	< 0.2
3826GREENINF	05/07/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3828GREENINF	04/24/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3829GREENINF	04/24/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
FR730009	10/11/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3	< 5	< 0.1	< 0.1	< 0.1	< 0.2
TD = 100	11/14/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
BOC = 20	03/12/08	< 0.1	< 0.1	< 0.1	< 0.2	0.3	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	04/15/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/09/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	04/14/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/26/10	< 0.500	< 0.500	< 0.500	<1.00	< 0.500	<2.50	< 0.500	< 0.500	< 0.500	< 0.500
3830GREENINF	04/26/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3831GREENINF	10/09/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3832GREENINF	04/24/07	< 0.1	< 0.1	< 0.1	< 0.2	0.4 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3833GREENINF	04/26/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
FR735017	07/27/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
TD = unknown	10/08/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
BOC = unknown	11/13/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	01/23/08	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	03/12/08	< 0.1	< 0.1	< 0.1	< 0.2	0.3	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	10/15/08	< 0.1	< 0.1	< 0.1	< 0.2	04J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	01/15/09	< 0.1	< 0.1	< 0.1	< 0.2	< 0.15	< 25	< 0.5	< 0.1	< 0.1	< 0.5
	04/08/09	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	~ 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/16/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	~ 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/08/00	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	01/14/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	01/14/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/20/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/28/10	<0.500	<0.500	<0.500	<1.00	<0.500	<2.50	<0.500	<0.500	<0.500	<0.500
3834GREENINF	04/16/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2



RESIDENTIAL POTABLE WELL ANALYTICAL DATA SUMMARY

		T			Ana	lytes of C	Concern ((ug/l)			
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE
MDE GW Clean-up for Type I and II	o Standards Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10
3835GREENINF	04/16/07	< 0.1	< 0.1	< 0.1	< 0.2	1.2	< 5	< 0.1	< 0.1	< 0.1	< 0.2
FR735019	07/27/07	< 0.1	< 0.1	< 0.1	< 0.2	0.6	< 5	< 0.1	< 0.1	< 0.1	< 0.2
TD = unknown	10/08/07	< 0.1	< 0.1	< 0.1	< 0.2	0.9	< 5	< 0.1	< 0.1	< 0.1	< 0.2
BOC = unknown	11/14/07	< 0.1	< 0.1	< 0.1	< 0.2	1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	12/20/07	< 0.1	< 0.1	< 0.1	< 0.2	0.8	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	04/16/08	< 0.1	< 0.1	< 0.1	< 0.2	0.8	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	08/12/09	< 0.5	< 0.5	< 0.5	< 0.5	0.81	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/09/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	01/13/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/21/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	11/23/10	< 0.500	< 0.500	< 0.500	<1.00	< 0.500	<2.50	< 0.500	< 0.500	< 0.500	< 0.500
3836GREENINF	04/16/07	< 0.1	< 0.1	< 0.1	< 0.2	0.4 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3837GREENINF	04/16/07	< 0.1	< 0.1	< 0.1	< 0.2	1.3	< 5	< 0.1	< 0.1	< 0.1	< 0.2
FR735175	07/27/07	< 0.1	< 0.1	< 0.1	< 0.2	0.5 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
TD = unknown	10/09/07	< 0.1	< 0.1	< 0.1	< 0.2	1.5	< 5	< 0.1	< 0.1	< 0.1	< 0.2
BOC = unknown	11/14/07	< 0.1	< 0.1	< 0.1	< 0.2	1.4	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	12/20/07	< 0.1	< 0.1	< 0.1	< 0.2	1.2	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	01/24/08	< 0.1	< 0.1	< 0.1	< 0.2	0.9	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	03/12/08	< 0.1	< 0.1	< 0.1	< 0.2	1.6	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	04/16/08	< 0.1	< 0.1	< 0.1	< 0.2	1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	07/17/08	< 0.1	< 0.1	< 0.1	< 0.2	1.8	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	10/15/08	< 0.1	< 0.1	< 0.1	< 0.2	2.2	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	01/14/09	< 0.5	< 0.5	< 0.5	< 0.5	1.39	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	04/08/09	< 0.5	< 0.5	< 0.5	< 0.5	1.31	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/23/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	01/14/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/22/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/25/10	< 0.500	< 0.500	< 0.500	<1.00	< 0.500	<2.50	< 0.500	< 0.500	< 0.500	< 0.500
3840GREENINF	04/17/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3904ROSEINF	07/02/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3905ROSEINF	06/08/07	< 0.1	0.1 J	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3906ROSEINF	07/02/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	6.4 J	< 0.1	< 0.1	< 0.1	< 0.2
3907ROSEINF	05/30/07	< 0.1	0.3 J	< 0.1	< 0.2	0.4 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3908ROSEINF	05/23/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3909ROSEINF	05/23/07	< 0.1	< 0.1	< 0.1	< 0.2	0.4 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2



RESIDENTIAL POTABLE WELL ANALYTICAL DATA SUMMARY

		Analytes of Concern (ug/l)									
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE
MDE GW Clean-up for Type I and II) Standards Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10
3913ROSEINF	06/08/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3914ROSEINF	07/02/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3916ROSEINF	06/13/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3918ROSEINF	04/17/07	< 0.1	< 0.1	< 0.1	< 0.2	0.4 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
FR-73-2473 TOC = 84.26 TD = 250 feet BOC = 23 feet	05/21/07 06/13/07 07/18/07 09/26/07 10/10/07 11/14/07 12/19/07 01/23/08 02/13/08 02/13/08 03/12/08 04/17/08 05/05/08 06/18/08 07/16/08 05/05/08 06/18/08 07/16/08 09/17/08 10/15/08 11/19/08 12/29/08 01/14/09 01/30/09 02/11/09 03/18/09 04/08/09 07/15/09 10/07/09 01/13/10	$\begin{array}{c} < 0.1 \\ < 0.1 \\ < 2 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 2.5 \\ < 2 \\ < 1 \\ < 1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 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0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\$	$< 0.1 \\< 0.1 \\< 2 \\< 0.1 \\< 0.1 \\< 0.1 \\< 0.1 \\< 0.1 \\< 2.5 \\< 2 \\< 1 \\< 1 \\< 0.1 \\< 0.1 \\< 0.1 \\< 0.1 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 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< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	$\begin{array}{r} 4.2\\ 76\\ 1,100\\<0.1\\<0.1\\<0.1\\<0.1\\2,600\\2,200\\1,300\\1,200\\54\\6.5\\7.3\\320\\610\\1,000\\810\\2,200\\2,300\\613\\642\\631\\503\\1,480\\2,600\\48\\1,160\\6.52\\2,501\end{array}$	< 5 < 5 360 J < 5 13 J 31 100 1,200 930 520 400 5.1 J < 5 < 5 32 J 160 420 250 1,100 1,100 99 121 149 55.3 806 1,190 16.6 230 < 2.5		< 0.1 < 0.1 < 2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 2.5 < 2 < 1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	$\begin{array}{c} 1.3\\ 2.5\\ 5.7 \text{ J}\\ < 0.1\\ < 0.1\\ < 0.1\\ < 0.1\\ 12 \text{ J}\\ 10\\ 6.8\\ 5.8\\ 1\\ 0.2 \text{ J}\\ 0.5 \text{ J}\\ 3.2\\ 3.9\\ 6.8\\ 5.4\\ 15\\ 13\\ -\\ 4.41\\ -\\ 4.39\\ 12.8\\ 10.7\\ 2\\ 7.44\\ 0.98\end{array}$	
3927ROSEINF	07/21/10 10/25/10 04/06/07	< 0.5 <0.500 < 0.1	< 0.5 <0.500 < 0.1	< 0.5 <0.500 < 0.1	< 0.5 <1.00 < 0.2	12.4 14.9 < 0.1	< 2.5 <2.50 < 5	< 0.5 <0.500 < 0.1	< 0.5 <0.500 < 0.1	2.44 2.73 < 0.1	< 0.5 <0.500 < 0.2



RESIDENTIAL POTABLE WELL ANALYTICAL DATA SUMMARY

	Analytes of Concern (ug/l)										
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE
MDE GW Clean-up for Type I and II	o Standards Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10
3928ROSEINF	04/16/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3930ROSEINF	05/30/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3931ROSEINF	05/07/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3932ROSEINF	05/30/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3933ROSEINF	05/24/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3934ROSEINF	07/02/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3936ROSEINF	07/06/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3937ROSEINF	06/08/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3939ROSEINF	05/24/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3978RYEINF FR734370 TD = 150	05/23/07 10/09/07 01/24/08	< 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1	< 0.2 < 0.2 < 0.2	0.3 J 0.3 J 0.2 J	< 5 < 5 < 5	< 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1	0.2 J 0.2 J 0.1 J	< 0.2 < 0.2 < 0.2
BOC = 21	04/16/08 07/16/08 10/17/08	< 0.1 < 0.1 < 0.1	0.2 J 0.3 J < 0.1	< 0.1 < 0.1 < 0.1	< 0.2 < 0.2 < 0.2 < 0.2	0.2 J 0.1 J 0.2 J	< 5 < 5 < 5	< 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1	0.1 J < 0.1 0.1 J	< 0.2 < 0.2 < 0.2 < 0.2
3979RYEINF	05/21/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3980RYEINF FR882818	07/06/07 04/17/08 07/16/08	< 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1	< 0.2 < 0.2 < 0.2	0.3 J 0.2 J 0.2 J	< 5 < 5 < 5	< 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1	< 0.2 < 0.2 < 0.2
3981RYEINF	05/21/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3982RYEINF TD = 150 BOC = 21	05/31/07 10/08/07 01/24/08 04/15/08 10/16/08	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	0.1 J 0.1 J < 0.1 < 0.1 0.1 J	< 5 < 5 < 5 < 5 < 5 < 5	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2
3983RYEINF	05/03/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3984RYEINF FR734367 TD = 185 BOC = 23	05/03/07 10/09/07 01/24/08 10/17/08	< 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1	< 0.2 < 0.2 < 0.2 < 0.2	< 0.1 < 0.1 < 0.1 0.1 J	< 5 < 5 < 5 < 5	< 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2



RESIDENTIAL POTABLE WELL ANALYTICAL DATA SUMMARY

					Anal	ytes of (Concern (ug/l)			
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE
MDE GW Clean-up for Type I and II	o Standards Aquifers	5	1,000	700	10,000	20	NG	NG	NG	NG	10
3985RYEINF	05/16/07	< 0.1	< 0.1	< 0.1	< 0.2	0.3 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3986RYE INF FR731221 TD = unknown BOC = unknown	05/07/07 10/09/07 01/25/08 04/16/08 07/16/08 10/15/08	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	$\begin{array}{c} 0.1 \ J \\ < \ 0.1 \\ < \ 0.1 \\ < \ 0.1 \\ < \ 0.1 \\ < \ 0.1 \\ < \ 0.1 \end{array}$	< 5 < 5 < 5 < 5 < 5 < 5 < 5	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2
3987RYEINF	05/09/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3988RYEINF FR731218 TD = unknown BOC = unknown	05/03/07 10/10/07 01/23/08 04/16/08 10/16/08	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	0.1 J 0.1 J < 0.1 < 0.1 < 0.1	< 5 < 5 < 5 < 5 < 5 < 5	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<0.2 <0.2 <0.2 <0.2 <0.2 <0.2
3989RYEINF	06/18/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3990RYEINF FR731167 TD = unknown BOC = unknown	05/16/07 10/08/07 01/23/08 04/16/08 07/16/08 10/15/08	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	0.2 J 0.3 J 0.2 J 0.1 J 0.2 J 0.2 J	< 5 < 5 < 5 < 5 < 5 < 5 < 5	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2
3991RYEINF	05/09/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3992RYEINF FR733391 TD = unknown BOC = unknown	05/09/07 10/12/07 01/23/08 04/17/08 07/16/08 01/14/09 07/15/09 01/13/10 07/20/10	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	$< 0.1 \\< 0.1 \\< 0.1 \\< 0.1 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\$	$\begin{array}{c} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \end{array}$	$< 0.2 \\< 0.2 \\< 0.2 \\< 0.2 \\< 0.2 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5$	$\begin{array}{c} 1.9\\ 1.4\\ 1.1\\ 1.9\\ 1.2\\ < 0.5\\ < 0.5\\ < 0.5\\ < 0.5\\ < 0.5\end{array}$	< 5 < 5 < 5 < 5 < 2.5 < 2.5 < 2.5 < 2.5 < 2.5	$< 0.1 \\< 0.1 \\< 0.1 \\< 0.1 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\$	$< 0.1 \\< 0.1 \\< 0.1 \\< 0.1 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\$	$< 0.1 \\< 0.1 \\< 0.1 \\< 0.1 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\$	$< 0.2 \\< 0.2 \\< 0.2 \\< 0.2 \\< 0.2 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\< 0.5 \\$
3994RYEINF FR733390 TD = 140 BOC = 21	04/05/07 10/09/07 01/23/08 04/16/08 07/16/08 01/15/09 07/17/09			$ \begin{array}{r} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \end{array} $		0.1 J 0.2 J 0.2 J < 0.1 0.1 J < 0.5 < 0.5	<5 <5 <5 <5 <5 <2.5 <2.5		$ \begin{array}{r} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \end{array} $	$ \begin{array}{r} < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.5 \\ < 0.5 \end{array} $	<0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.5 <0.5



RESIDENTIAL POTABLE WELL ANALYTICAL DATA SUMMARY

MONROVIA BP / FORMER GREEN VALLEY CITGO 11791 FINGERBOARD ROAD MONROVIA, MARYLAND

Analytes of Concern (ug/l)											
Location ID	Sample Date	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES *	MTBE	TBA	TAME	ETBE	DIPE	NAPH- THALENE
MDE GW Clean-up	o Standards	5	1 000	700	10.000	20	NC	NC	NC	NC	10
for Type I and II	Aquifers	Э	1,000	700	10,000	20	NG	NG	NG	NG	10
3994RYEINF	01/13/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
(Cont.)	07/21/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
3995RYEINF	04/06/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3996RYEINF	04/05/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
FR733495	10/10/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
TD = 160	04/18/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
BOC = 28	10/17/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	07/17/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	01/14/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
3997RYEINF	04/06/07	< 0.1	< 0.1	< 0.1	< 0.2	0.4 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
3998RYEINF	04/06/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
FR733496	07/27/07	< 0.1	< 0.1	< 0.1	< 0.2	0.1 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
TD = 200	10/08/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
BOC = 21	01/24/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	04/16/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	07/17/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	10/15/08	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
	01/15/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/16/09	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	01/13/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
	07/22/10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5
11711SEREINF	04/16/07	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 5	< 0.1	< 0.1	< 0.1	< 0.2
11712SEREINF	04/16/07	< 0.1	< 0.1	< 0.1	< 0.2	0.4 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2
11713SEREINF	04/06/07	< 0.1	< 0.1	< 0.1	< 0.2	0.2 J	< 5	< 0.1	< 0.1	< 0.1	< 0.2

NG = No Guideline

- = Not Applicable / Not Available

J = Estimated Value

Concentration in ug/l = micrograms per liter

Values exceeding the specified MDE criteria are **bolded.**

<# = Less than the method detection limit of #

* = Represents the sum of o-Xylenes and m,p-Xylenes

TPH analysis conducted in accordance with EPA Method 8015B.

MTBE = Methyl-tertiary butyl-ether

TBA = Tertiary butyl alcohol

TAME = Tertiary-amyl methyl ether

DIPE = Di-isopropyl Ether

ETBE = Ethyl tertiary-butyl ether

TOC = Top of well casing elevation (feet)

TD = Total depth of well (feet)

BOC = Bottom of well casing (feet)

Samples analyzed for VOCs by EPA Method 524.2, only BTEX and oxygenates are summarized


ISCO GROUNDWATER MONITORING WELL DATA SUMMARY

MONROVIA BP (FORMER GREEN VALLEY CITGO) 11791 FINGERBOARD ROAD MONROVIA, MARYLAND

		ISCO Pilot Test Analytes of Concern (µg/l)									
Monitoring Well ID	Sample Date	Chemical Oxygen Demand (COD)	Total Organic Carbon	Total Dissolved Solids	Total Suspended Solids	Chromium	Sulfate as SO4	Iron (total)	Iron (dissolved)		
MW-7	11/23/10	60,400	8340	142,000	312,000	14.6	<10,000	15,000	<20.0		
MW-8	11/23/10	<15,000	1160	212,000	1,070,000	125	<10,000	33,700	<20.0		
MW-10	11/23/10	<15,000	2,130	261,000	<4,000	<1.00	<10,000	55.9	<20.0		
MW-13	11/23/10	23,400	1,340	332,000	<4,000	<1.00	<10,000	26.6	<20.0		
MW-14S	11/23/10	21,400	1,840	378,000	24,000	2.65	<10,000	572	<20.0		
MW-14D	11/23/10	17,100	1,230	267,000	38,000	1.57	<10,000	865	43.8		
MW-16	11/23/10	<15,000	<500	369,000	64,000	1.11	<10,000	964	<20.0		
MW-17	11/23/10	65,400	5,470	371,000	17,000	1.24	<10,000	570	<20.0		
MW-18S	11/23/10	215,000	50,100	2,730,000	3,560,000	1,590	<10,000	497,000	340		
MW-18S	12/08/10	435,000	36,500	6,390,000	496,000	71.6	<10,000	23,700	359		
MW-18D	11/23/10	87,700	10,800	448,000	1,310,000	23.6	45,900	15,900	33.9		
MW-18D	12/08/10	38,100	7,690	352,000	202,000	8.5	53,500	4,460	<20.0		

 $\mu g/l = micrograms per liter$



CHEMICAL OXIDATION GEOCHEMICAL DATA SUMMARY

MONROVIA BP/FORMER GREEN VALLEY CITGO 11791 FINGERBOARD RD. MONROVIA, MD

NOVEMBER 30, 2010

	Depth to Water Headspace								Temp	erature	Dissolve	d Oxygen	рН		Oxidation-Reduction Potential (ORP)	
Well ID	feet below	top of casing	PID ppm		LE	LEL %		$O_2 \%$		degrees Celsius		ns per liter	standard units		millivolts	
	Baseline	End of Day	Baseline	End of Day	Baseline	End of Day	Baseline	End of Day	Baseline	End of Day	Baseline	End of Day	Baseline	End of Day	Baseline	End of Day
MW-18S	64.28	64.25	12.4	0.0	NM	0	NM	20.9	15.3	14.1	11.3	10.4	11.1	6.6	-65.2	-1.1
MW-18D	100.92	100.37	1.0	1.8	NM	0	NM	20.9	14.3	12.9	6.0	11.4	10.0	7.9	-65.4	-20.4
VE-1	-	NM	0.6	0.0	NM	NM	NM	NM	-	NM	-	NM	-	NM	-	NM
MW-13	62.76	62.65	0.1	0.0	NM	0	NM	20.9	15.4	15.3	0.7	0.4	6.1	5.6	-45.3	-7.0
MW-15D	63.67	63.69	4.5	2.3	NM	0	NM	20.2	14.4	14.4	0.5	0.5	6.7	6.7	-56.0	-31.2
MW-7	64.22	64.25	7.6	0.8	NM	0	NM	20.9	15.3	14.9	0.7	0.4	5.6	5.6	-50.0	-19.7
MW-17	58.72	58.75	0.3	NM	NM	NM	NM	NM	14.1	14.5	0.8	0.5	7.2	5.8	-70.1	-22.0
MW-14D	65.25	65.07	1.9	NM	NM	NM	NM	NM	14.5	14.4	1.4	0.7	8.7	8.8	-69.8	-25.4

Notes:

NM = Not measured

PID = Photoionization detector (VOC measurements)

LEL = Lower explosive limit

O₂ = Oxygen

ppm = parts per million

VOC = Volatile organic compounds



CHEMICAL OXIDATION EVENT SUMMARY

MONROVIA BP/FORMER GREEN VALLEY CITGO 11791 FINGERBOARD ROAD MONROVIA, MARYLAND

NOVEMBER 29, 2010

Hydrogen Peroxide Injection 11/30/2010									
Batch #	Well ID	H ₂ O ₂ Concentration (%)	Injection Volume (approx. gal)	Max Flow Rate (gpm) Max Pressure					
1 (24 gal)	IW-1S	17.5%	1.0	50.0					
	Total Injection Volume: 20 gallons								

Notes:

psi

 H_2O_2 = Hydrogen Peroxide

= Pounds per square inch

gpm = Gallons per minute

scfm = Standard cubic feet per minute



CHEMICAL OXIDATION SVE DATA

MONROVIA BP/FORMER GREEN VALLEY CITGO 11791 FINGERBOARD ROAD MONROVIA, MARYLAND

NOVMEBER 29, 2010

Well ID	Flow scfm	Vacuum	SVE Effluent PID (ppm)							
		1.w.	11:20 AM	11:38 AM	11:55 AM	12:15 PM	12:30 PM			
VE-1	20	72	39.8 17.7 11.5 8.8							

Notes:

PID = Photoionization detector (VOC Measurements)

scfm = Standard cubic feet per minute

i.w. = Inches of water column

ppm = Parts per million





APPENDIX A

Maryland Department of the Environment Correspondence

MARYLAND DEPARTMENT OF THE ENVIRONMENT



Oil Control Program, Suite 620, 1800 Washington Blvd., Baltimore MD 21230-1719 410-537-3442 • 410-537-3092 (fax) 1-800-633-6101

Martin O'Malley Governor Shari T. Wilson Secretary

Anthony G. Brown Lieutenant Governor

Robert M. Summers, Ph.D. Deputy Secretary

June 17, 2010

Mr. John Phelps Carroll Independent Fuel Company 2700 Loch Raven Boulevard Baltimore MD 21208

Mr. Arshad M. Ranjha and Mr. Saquib Iqbal Khan Mr. Znafar Saaba Corporation 2926 Summit Circle Ellicott City MD 21207 Mr. Kiran M. Dewan, Resident Agent 1657 Whitehead Court Baltimore MD 21207

Mr. Samir Andrawos and Timbercrest LP P.O. Box 369 Damascus MD 20872 Ms. Jennifer Andrawos, Resident Agent 25133 Silver Crest Drive Gaithersburg MD 20882

RE: REQUEST FOR CORRECTIVE ACTION PLAN

Case No. 2005-0834-FR Notice of Violation NV-2007-069 Green Valley Citgo 11791 Fingerboard Road, Monrovia Frederick County, Maryland Facility I.D. No. 11836

Dear Messrs. Phelps, Ranjha, Khan, Znafar, and Dewan, and Mr. and Ms Andrawos:

The Oil Control Program recently completed a review of the case file for the above-referenced property, including the *Update Report and Work Plan - March 15, 2010*. In September 2009, two deep monitoring wells (MW-14D and MW-15D) and two shallow monitoring wells (MW-16 and MW-17) were installed on the south side of the Green Valley Plaza and north of the impacted off-site residential properties. At that time, the new monitoring wells were completed as open boreholes with steel casing installed in each to a depth of between 10 and 11 feet below ground surface (bgs). In October 2009, pilot testing activities included a step drawdown test, a 72-hour pumping test, and four individual short-term pumping tests. In November 2009, geophysical testing was completed on monitoring wells MW-14D, MW-16, and MW-17. Additionally, packer testing was completed on MW-14D.

A review of the long-term pumping test data suggests the presence of a preferred pathway for groundwater/contaminant migration (northeast-southwest) at the site. Additionally, the long-term pumping test data indicate that MW-15D could be used as a groundwater extraction well to capture contaminated groundwater on the north and northeast areas of the site; however, this well would not exert hydraulic influence on the southern portion of the site. Short-term pumping suggests that monitoring wells MW-13 and MW-16 are hydraulically connected to the contaminant plume and may serve as part of a groundwater recovery system.

The November 2009 geophysical evaluation identified numerous potential water bearing features (e.g. fractures, bedding planes) in the area of the site bisected by shallow monitoring wells MW-16 and MW-17 and deep monitoring well MW-14D. Additionally, packer testing of four isolated intervals in MW-14D indicate these water bearing features are hydraulically well connected throughout the vertical profile bisected by MW-14D and further suggests that MW-14D could function as a groundwater recovery well.

Considering the results of pilot testing, the *Update Report and Work Plan - March 15, 2010* proposes additional investigative work at the site including: construction of two 2-inch monitoring wells within MW-14D; completion of MW-15D, MW-16, and MW-17 as permanent 4-inch monitoring wells; continued on-site and off-site groundwater sampling; and the submittal of a *Corrective Action Plan (CAP)*.

Based on our review of the Update Report and Work Plan - March 15, 2010 and the continued presence of methyl tertiary-butyl ether (MTBE) in the monitoring well network and off-site private drinking water supply wells, the Department hereby requires the responsible parties to submit a CAP for our review and approval. In accordance with Code of Maryland Regulations (COMAR) 26.10.09.07, the CAP must be designed to mitigate any potential risk to human health and the environment and must plan to capture, contain, and reduce the migration of the existing groundwater contaminant plume centered around the former and currently active underground storage tank (UST) systems.

The proposed *CAP* must aggressively remediate contaminated soil and groundwater at the subject property. Site assessment activities completed thus far (e.g. groundwater monitoring, pumping test, geophysical evaluation) indicate the possibility of using deep monitoring wells MW14D and MW-15D and shallow monitoring wells MW-13 and MW-16 as groundwater recovery wells. The Department acknowledges that modifications to the *CAP* may be required as site conditions change.

- <u>No later than August 6, 2010</u>, submit a Corrective Action Plan (CAP) in accordance with the Department's Maryland Environmental Assessment Technology (MEAT) for Leaking Underground Storage Tanks guidance document, which may be accessed at: http://www.mde.state.md.us/assets/ document/MEAT_Guidance.pdf.
- 2) The *CAP* must fully delineate the migration of the subsurface dissolved-phase hydrocarbon plume and mitigate any potential current and future risks to on-site and/or off-site receptors. The proposed *CAP* must thoroughly assess the vertical and horizontal extent of petroleum contamination in the soil and groundwater, giving due consideration to the migration of dissolved phase petroleum hydrocarbons off-site via groundwater and/or any preferential subsurface pathways.

Messrs. Phelps, Ranjha, Khan, Znafar, and Dewan, and Mr. and Ms Andrawos Case No. 2005-0834-FR Page Three

- 3) The *CAP* must fully describe any treatment and/or disposal measures used as part of remedial activities to handle any waste materials generated (e.g. treated groundwater, contaminated soils).
- 4) Prior implementation of remedial technologies, other than SVE, may require additional pilot tests to demonstrate effectiveness.
- 5) Following Departmental approval of the *CAP*, immediately implement field activities to address on-site environmental conditions. Provide the Oil Control Program at least five (5) days prior notice so that representatives have an opportunity to observe field activities.

Based on our review of the Update Report and Work Plan - March 15, 2010, the Department requires the following:

- 6) The Department requires that the open borehole at MW-14D be completed as a 4-inch well with a screened depth as indicated in the work plan. A new 4-inch diameter monitoring well, MW-14S, must be installed adjacent to MW-14D and screened between 40 and 100 feet bgs to allow for fluctuations in groundwater elevation. MW-14S must be installed following the previously approved methods for this site.
- 7) The Department concurs with the completion of open boreholes at MW-15D, MW-16, and MW-17 as 4-inch monitoring wells.
- 8) Continue quarterly (every three months) sampling of the monitoring well network, including the newly constructed monitoring wells (MW-14S, MW-14D, MW-15D, MW-16, and MW-17). All samples collected must be analyzed for full-suite volatile organic compounds (VOCs), including fuel oxygenates, using EPA Method 8260 and for total petroleum hydrocarbons/diesel- and gasoline-range organics (TPH/DRO and TPH/GRO) using EPA Method 8015B.
- 9) <u>In June 2010</u>, begin **quarterly (every three months)** sampling of the granular activated carbon (GAC) filtration system installed on the Green Valley Plaza drinking water supply wells. Samples must be collected pre-, mid-, and post-filtration and analyzed for full-suite VOCs, including fuel oxygenates, using EPA Method 524.2. The Department does not require analyses for TPH/DRO and TPH/GRO.
- 10) Continue **quarterly (every three months)** sampling of the private drinking water supply wells where point-of-entry treatment systems have been installed:
 - 3990, 3992, 3994, 3996, and 3997 Farm Lane; and
 - 3923 Rosewood Road.
- 11) Continue quarterly (every three months) sampling of the private drinking water supply wells at:
 - 3985, 3987, 3989, 3991, 3993, 3995, and 3998 Farm Lane;
 - 3829, 3833, 3835, and 3837 Green Ridge Drive; and
 - 3737, 3739, and 3740 Blueberry Court.

Messrs. Phelps, Ranjha, Khan, Znafar, and Dewan, and Mr. and Ms Andrawos Case No. 2005-0834-FR Page Four

12) Continue semi-annual (every six months) sampling of the private drinking water supply wells at:

- 3979, 3981, 3983, and 3984 Farm Lane; and
- 3992, 3994, 3996, and 3998 Rye Lane.
- 13) All samples collected from the above off-site private drinking water supply wells must be analyzed for full-suite VOCs, including fuel oxygenates, using EPA Method 524.2. Provide a copy of the sampling results to the property owner, the Frederick County Health Department (Attn: George Keller), and the MDE-Oil Control Program (Attn: Jim Richmond).

When submitting documentation to the Oil Control Program, provide two hard copies and one copy on a compact disc (CD) for updating the Oil Control Program's *Remediation Sites* list on the MDE website. If you have any questions, please contact the case manager, Mr. Jim Richmond, at 410-537 3337 (email: jrichmond@mde.state.md.us) or me at 410-537-3499 (email: <u>sbull@mde.state.md.us</u>).

Susan R. Bull, Western Region Section Head Remediation and State-Lead Division Oil Control Program

JWR/nln

cc: Ms. Cari Finch (Environmental Alliance) Mr. George Keller (Frederick County Health Dept.) Mr. John Grace (MDE-Water Supply Program) Priscilla Carroll, Esq. Mr. Christopher H. Ralston Mr. Horacio Tablada



MARYLAND DEPARTMENT OF THE ENVIRONMENT

Oil Control Program, Suite 620, 1800 Washington Blvd., Baltimore MD 21230-1719 410-537-3442 • 410-537-3092 (fax) 1-800-633-6101

Martin O'Malley Governor

Anthony G. Brown Lieutenant Governor Shari T. Wilson Secretary

Robert M. Summers, Ph.D. Deputy Secretary

November 18, 2010

Mr. Herbert M. Meade Environmental, Health and Safety Director Carroll Independent Fuel Company 2700 Loch Raven Boulevard Baltimore MD 21208

Mr. Arshad M. Ranjha and Mr. Saquib Iqbal Khan Mr. Znafar Saaba Corporation 2926 Summit Circle Ellicott City MD 21207

Mr. Samir Andrawos and Timbercrest LP P.O. Box 369 Damascus MD 20872 Mr. Kiran M. Dewan, Resident Agent 1657 Whitehead Court Baltimore MD 21207

Ms. Jennifer Andrawos, Resident Agent 25133 Silver Crest Drive Gaithersburg MD 20882

RE: WORK PLAN APPROVAL

Case No. 2005-0834-FR Notice of Violation NV-2007-069 Green Valley Citgo 11791 Fingerboard Road, Monrovia Frederick County, Maryland Facility I.D. No. 11836

Dear Messrs. Meade, Ranjha, Khan, Znafar, and Dewan, and Mr. and Ms Andrawos:

The Oil Control Program recently completed a review of the case file for the above-referenced property, including the *Groundwater Sampling Report - August 31, 2010* and the *In-Situ Chemical Oxidation Pilot Test Work Plan - September 9, 2010*. In June 2010, the Department required the submittal of a *Corrective Action Plan (CAP)* to address the elevated concentrations of methyl tertiary-butyl ether (MTBE) remaining in the onsite monitoring well network and several off-site private drinking water supply wells. In July 2010, groundwater sampling detected MTBE up to 12,800 parts per billion (ppb) in the vicinity of the active underground storage tank (UST) field. In addition, pre-filtration samples collected from the impacted off-site private drinking water wells detected MTBE up to 1,770 ppb.

Messrs. Meade, Ranjha, Khan, Znafar, and Dewan, and Mr. and Ms Andrawos Case No. 2005-0834-FR Page Two

In September 2010, the Department was notified by the Carroll Independent Fuel Company (CIFC) of their intent to evaluate in-situ chemical oxidation (ISCO) as a possible remedial technology. The *Chemical Oxidation Pilot Test Work Plan* proposes to inject hydrogen peroxide and ozone at three distinct subsurface intervals, in an area to the south of the active tank field, during a two-day pilot test. The proposed ISCO pilot test activities include the installation of three nested injection wells (IW-1, IW-2, IW-3), a nested observation well (MW-18N), and a vapor extraction well (VE-1). In addition, eleven existing on-site monitoring wells will be used to evaluate the aquifer for changes in groundwater chemistry and elevation. Prior to the start of pilot test activities, groundwater samples will be collected from the five identified monitoring wells (MW-7, MW-14D, MW-15D, MW-17, and MW-18N) in the vicinity of the study area. Post-injection samples will also be collected from the same five monitoring wells after one week and after four weeks following the oxidant injections. To minimize the potential for vapor migration, pilot test activities will include hourly vapor monitoring using the above five monitoring wells. Additionally, vapor monitoring will be conducted within the occupied areas of the Green Valley Plaza building.

The Department understands that should changing site conditions warrant, pilot testing activities will cease and the contingency plans, including groundwater extraction, vapor extraction, and increased vapor monitoring, will be enacted to further ensure that pilot testing activities do not pose a threat to human health or the environment.

In October 2010, the Department received the *Proposed Groundwater and Potable Well Sampling Program - October 13, 2010.* The *Sampling Program* proposes to use U.S. EPA approved low flow sampling procedures when collecting samples from the monitoring well network. In addition, the *Sampling Program* proposes to eliminate total petroleum hydrocarbons/diesel-range organics from the list of required analytes.

Based our review of the data submitted thus far, the Department hereby approves the *In-Situ Chemical* Oxidation Pilot Test Work Plan - September 9, 2010 for immediate implementation, contingent upon the following modifications.

- The Department requires the addition of monitoring wells MW-8, MW-10, MW-13, MW-14S, and MW-16 to the list of monitoring wells (MW-7, MW-14D, MW-15D, MW-17, and MW-18N) at which samples will be collected as part of the baseline and post-pilot test groundwater sampling plans. The Department reserves the right to require additional groundwater sampling and vapor monitoring as deemed necessary.
- 2) All wastewater generated as a result of pilot test activities will be containerized for off-site disposal at an approved facility.
- 3) The Department anticipates receiving a complete report evaluating the results of approved pilot test activities and submission of the *Corrective Action Plan* no later than January 31, 2011.
- 4) The Department approves the collection of samples from the monitoring well network in accordance with U.S. EPA approved low flow sampling techniques and as proposed in the *Sampling Program* October 13, 2010.

Messrs. Meade, Ranjha, Khan, Znafar, and Dewan, and Mr. and Ms Andrawos Case No. 2005-0834-FR Page Three

- 5) Continue **quarterly (every three months)** sampling of the monitoring well network, including the newly constructed monitoring well MW-18N. All samples collected must be analyzed for full-suite volatile organic compounds (VOCs), including fuel oxygenates, using EPA Method 8260 and for total petroleum hydrocarbons/diesel and gasoline-range organics (TPH/DRO and TPH/GRO) using EPA Method 8015B. The Department will review the request to eliminate TPH/DRO from the list of required analyses pending an evaluation of the low flow sampling data and pilot testing activities.
- 6) Continue sampling of the granular activated carbon (GAC) filtration system installed on the transient non-community supply wells serving the Green Valley Plaza, as directed in the Department's correspondence dated June 17, 2010. Additionally, continue sampling supply wells FR-88-1366, FR-88-1394, and FR-81-5955 on an annual basis. All samples collected from the transient non-community supply wells must be analyzed for full-suite VOCs, including fuel oxygenates, using EPA Method 524.2. The Department does not require analyses for TPH/DRO and TPH/GRO for samples collected from the transient non-community supply wells.
- 7) Continue sampling the three transient non-community supply wells serving the Green Valley Shopping Center on a quarterly (every three months) basis. All samples collected from the transient noncommunity supply wells must be analyzed for full-suite VOCs, including fuel oxygenates, using EPA Method 524.2. The Department does not require analyses for TPH/DRO and TPH/GRO for samples collected from the transient non-community supply wells.
- 8) Continue **quarterly (every three months)** sampling of the private drinking water supply wells where point-of-entry treatment systems have been installed:
 - 3990, 3992, 3994, 3996, and 3997 Farm Lane; and
 - 3923 Rosewood Road.
- 8) Continue quarterly (every three months) sampling of the private drinking water supply wells at:
 - 3985, 3987, 3989, 3991, 3993, 3995, and 3998 Farm Lane;
 - 3829, 3833, 3835, and 3837 Green Ridge Drive; and
 - 3737, 3739, and 3740 Blueberry Court.
- 9) Continue semi-annual (every six months) sampling of the private drinking water supply wells at:
 - 3979, 3981, 3983, and 3984 Farm Lane; and
 - 3992, 3994, 3996, and 3998 Rye Lane.
- 10) All samples collected from the above off-site private drinking water supply wells must be analyzed for full-suite VOCs, including fuel oxygenates, using EPA Method 524.2. Provide a copy of the sampling results to the property owner, the Frederick County Health Department (Attn: George Keller), and the MDE-Oil Control Program (Attn: Jim Richmond).

Messrs. Meade, Ranjha, Khan, Znafar, and Dewan, and Mr. and Ms Andrawos Case No. 2005-0834-FR Page Four

Notify the Oil Control Program at least five (5) working days prior to starting pilot test activities so we can be on-site to observe field activities. When submitting documentation to the Oil Control Program, provide two hard copies and a digital copy on a labeled compact disc (CD) for updating the Oil Control Program's *Remediation Sites* list on the MDE website. If you have any questions, please contact the case manager, Mr. Jim Richmond, at 410-537 3337 (email: jrichmond@mde.state.md.us) or me at 410-537-3499 (email: sbull@mde.state.md.us).

Sincerely,

ATH DE FOR

Susan R. Bull, Western Region Section Head Remediation and State-Lead Division Oil Control Program

JWR/nln

cc: Mr. Steven M. Slatnick (Groundwater and Environmental Services, Inc.) Mr. Norman B. Handler (Resident Agent) Robert S. Bassman, Esquire (Bassman, Mitchell & Alfano) Dwight W. Stone, Esquire (Whiteford, Taylor, Preston) Mr. Christopher J. Miceli (VERTEX) Mr. George Keller (Frederick County Health Dept.) Mr. John Grace (MDE-Water Supply Program) Ms. Priscilla Carroll, Esquire Mr. Christopher H. Ralston Mr. Thomas L. Walter Mr. Horacio Tablada



APPENDIX B

Site History



Monrovia BP/Former Green Valley Citgo 11791 Fingerboard Road, Monrovia, Frederick County, MD

Site History

1990 – 2000: 2000:	The facility was operated by Timbercrest LP. Underground storage tanks (USTs) were registered to Carroll Independent Fuels
June 13, 2001:	Company (Carroll). Three soil borings (SB-1AR, SB-2AR and SB-3) were advanced onsite and soil
	samples were collected by ATC Associates (ATC) as part of a Phase II Environmental Assessment.
July 24, 2001:	ATC completed a <i>Phase II Environmental Assessment</i> report.
January 28, 2005:	The Maryland Department of the Environment – Oil Control Program (MDE- OCP) conducted a compliance inspection, during which elevated levels of petroleum vapors were detected in the vicinity of the tank field, around tank top
	components and in the tank field monitoring wells
June 1, 2005:	MDE correspondence required vapor leak testing, containment sump and catchment basin testing, the installation of groundwater monitoring wells to
	comply with High Risk Groundwater Use Area Regulations, and the submittal of a <i>Subsurface Investigation Work Plan</i> to assess the vertical and lateral extent of any contamination of soil and/or groundwater. OCP Case #2005_0824_EP was
	any containination of son and/or groundwater. OUP Case #2003-0854-FK was
Luly 9, 2005.	A Work Dign Subauface Investigation and Emergence Deculation Compliance
July 8, 2005.	A work Plan – Subsurjace Investigation and Emergency Regulation Compliance
	was submitted to the MDE by Environmental Annance (EA), proposing a son
	bornig event, instantation of four monitoring wens, groundwater sampling, slug
Amount 19, 2005.	The MDE approved the Week Dlaw with modifications and provided driabing
August 18, 2005:	The MDE approved the <i>work Plan</i> , with modifications, and required a drinking
0 1 14 15 2005	water well survey within a half-mile radius of the site be conducted.
September 14-15, 2005:	Ten soil borings (GP-1 through GP-10) were advanced.
February 6-7, 2006:	Four bedrock monitoring wells (MW-1 through MW-4) were installed.
March 28, 2006:	Methyl tertiary butyl ether (MTBE) was detected at a concentration of
	14 micrograms per liter (μ g/L) in a blended influent sample collected from two onsite drinking water wells supplying Green Valley Plaza (GVP), the shopping center that houses the station
April 2006	Mr. Archad Paniha doing business as Saaha Corporation registered as the new
April 2000.	UST owner.
May 24, 2006:	An Assessment for the Emergency Regulations Compliance Report was submitted to the MDE, detailing the soil boring event, the monitoring well instellation groundwater compling compling of the onsite potable wells, and a
	sonsitive recentor survey
$J_{11}J_{12} = 7 - 2006$	The MDE responded to the Assassment Report and required semi-annual
July 7, 2000.	sampling of the monitoring wells the tank field wells and the Site's supply
	wells, and submittal of boring logs for the onsite drinking water supply wells and
	the hadroak monitoring walls
Santambar 10, 2006	MTDE was detected in a blanded influent comple from the CVD's supply wells at
September 19, 2000.	a concentration of $42 \mu g/L$.
November 17, 2006:	A <i>Semi-Annual Sampling Report</i> was submitted to the MDE detailing the results of groundwater sampling and the potable well sampling, and the intention to install a point-of-entry treatment (POET) system on GVP's water supply.



January 22, 2007:	The MDE issued a <i>Request for Interim Corrective Action Plan</i> (ICAP) <i>and</i> <i>Supplemental Investigation</i> , requiring the submittal of an ICAP to reduce vapor concentrations in the tank field, including a soil vapor extraction (SVE) test on the tank field and monitoring well MW-3, an investigation of surface drains, and increased frequency of monitoring well and tank field well sampling from semi- annually to quarterly. The submittal of a <i>Site Conceptual Model</i> (SCM) and a supplemental <i>Work Plan</i> to further develop the SCM were also required. Quarterly sampling of GVP's and the adjacent Green Valley Shopping Center's (GVSC's) potable wells, initial sampling of several private offsite potable wells, and a detailed drinking water well survey within a half-mile radius of the site was required.
March 23, 2007:	An extension request for the submittal of the ICAP was submitted to the MDE, noting that there was more than one potentially responsible party at the Site.
April 5, 2007:	MDE correspondence acknowledged that more than one potentially responsible party existed at the Site.
April 5, 2007:	The MDE issued <i>Notice of Violation (NOV) NV-2007-069</i> to all potentially responsible parties for failure to meet the requirements of the January 22, 2007 directive letter within the specified deadlines. The MDE also sent correspondence regarding the case to the Frederick County Health Department.
April 5-6, 2007:	An initial round of samples was collected from select offsite residential potable wells.
April 11, 2007:	EA met with the MDE's Water Supply Division to discuss installing a POET system on GVP's water supply.
April 12, 2007:	Email correspondence to MDE proposed sampling of additional select residential potable wells. The proposal was approved.
April 19, 2007:	Email correspondence to MDE proposed sampling of additional select residential potable wells. The proposal was approved.
April 25 2007	An ICAP was submitted to the MDE proposing SVE feasibility testing
April 25, 2007:	A <i>Sampling Results and Work Plan</i> was submitted to the MDE detailing the results of sampling of offsite residential potable wells, the GVP supply wells and the GVSC supply wells, and included plans for future sampling.
April 30, 2007:	A <i>Drinking Water Well Survey</i> detailing the results of a search for potable wells within a half-mile radius of the site was submitted to the MDE.
April 30, 2007:	GAC POET systems were installed at two residences (3996 and 3994 Farm Lane) where MTBE was detected above the MDE's action level of $20 \mu g/L$.
May 7, 2007:	The MDE approved the ICAP, with modifications, and required monthly sampling of certain residential potable wells. EA submitted <i>Site Conceptual Model and Supplemental Work Plan</i> to the MDE. A POET system was installed at 3990 Farm Lane.
May 11, 2007:	A POET system was installed at 3923 Rosewood Lane.
May 17, 2007:	A Surface Drain Evaluation was submitted to the MDE.
May 22, 2007:	Modifications to the Work Plan and the ICAP was submitted to the MDE via email.
May 23, 2007:	A POET system was installed at 3992 Farm Lane.
May 31 – June 1, 2007:	Soil vapor monitoring points SV-1, SV-2 and SV-3 were installed around the
	tank field in preparation for SVE testing. Soil boring SB-1 was also advanced.
June 9, 2007:	A POET system was installed at 3997 Farm Lane.
June 21-22, 2007:	SVE feasibility testing was performed onsite.
June 27, 2007:	The MDE approved the Supplemental Work Plan.
July 2007:	Down-noie geophysical testing of GVP drinking water wells FR-88-1356 and FR-94-1233 was conducted.



July 27, 2007:	The MDE sent <i>Request to Sample Drinking Water Supply Well</i> notices to seven residences surrounding the Site
August 8, 2007:	The MDE issued the directive <i>Off-Site Domestic Well Sampling Frequencies</i> requiring monthly sampling of 25 residences with potable wells and the submission of <i>Monthly Status Reports</i> , and quarterly sampling of 14 residences with potable wells and the submission of <i>Quarterly Drinking Water Supply Well Sampling Reports</i> .
October 15, 2007:	A Potable Well Sampling Report was submitted to the MDE. A Quarterly Sampling Report was also submitted and included details of the SVE testing
March 27, 2008:	The MDE issued <i>Modifications to Off-Site Domestic Well Sampling Frequencies</i> <i>and Request for Site Status</i> , reducing the reporting frequency for all data and the sampling frequency of certain potable wells to quarterly, but still required monthly sampling of wells outfitted with POET systems. The MDE requested an update on the proposed installation of a POET system on the GVSC supply wells, and the installation of five monitoring wells required in the April 5, 2007 NOV.
May 6, 2008:	A Supplemental Work Plan Addendum was submitted to the MDE proposing changes to the construction and installation of monitoring wells.
May 12-15 2008:	Four shallow groundwater monitoring wells (MW-5 through MW-8) were installed. The monitoring wells were left as open boreholes in the water-bearing zone. Monitoring well MW-3 was abandoned in anticipation of upcoming UST removal activities.
May 28, 2008.	The MDF approved the Supplemental Work Plan Addendum
June 2008:	Down-hole geophysical testing of monitoring wells MW-6, MW-7 and MW-8 was conducted
June 20, 2008:	A <i>Response to Directive</i> was submitted to the MDE, proposing the installation of four monitoring wells rather than five.
July 21-25, 2008:	One 2,000-gallon diesel UST and three 10,000-gallon gasoline USTs were removed from the Site. MDE was onsite to observe UST removal activities. Over 1,100 tons of soil, approximately 523.5 tons of which were petroleum- impacted, were removed from the Site. Soil vapor point SV-3 and tank field wells TF-1 and TF-2 were destroyed during UST removal activities. Site surface water discharge was reconfigured during Site upgrade activities.
August 2008:	A new UST system, consisting of two 10,000-gallon gasoline USTs, one 10,000-gallon diesel UST and one 4,000-gallon diesel UST, was installed at the Site. SVE piping was installed, connected to the tank field monitoring wells.
August 2008:	Water treatment permit was approved for modifications to the GVP supply well.
August 22 2008.	A UST System Closure Report was submitted to the MDF
Sontombor 2008:	A DOET system was installed on the CVD water supply
September 2008.	A POET system was instance on the OVP water suppry.
September 16, 2008:	A Hydrogeologic Investigation Update Report and Work Plan was submitted to the MDE, and included results of the down-hole geophysical well testing. The Work Plan proposed the installation of monitoring wells within the open boreholes of monitoring wells MW-5 through MW-8, installation of additional shallow monitoring wells, additional SVE testing, modifications to the potable well sampling plan, and preparation of an updated SCM.



December 12, 2008:	The MDE approved the <i>Work Plan</i> with modifications. The MDE did not approve the installation of new shallow monitoring wells, but requested the evaluation of need for deep monitoring wells near the tank field and offsite to the south and southeast; frequency of sampling POET systems at three residential addresses was increased to semi-monthly, frequency of the other three residential POET systems remained monthly; frequency of sampling at certain residences with potable wells was changed to quarterly, and others were changed to semi- annually. The MDE sent letters to area residents to inform them of the sampling frequency change.
December 16, 2008:	The need for installation of shallow monitoring wells in order to better place deep monitoring wells was verbally discussed with Jim Richmond of MDE.
December 17, 2008:	Susan Bull of MDE approved, via email, the installation of shallow monitoring wells if the data from them was needed in order to place deep monitoring wells.
December 30, 2008:	A <i>Response to Directive</i> was sent to the MDE.
January 16, 2009:	SVE feasibility testing was conducted.
February 3, 2009:	The MDE issued <i>Work Plan Clarification</i> , approving the installation of shallow
,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	wells in order to better place deep monitoring wells, and clarified the frequency of monitoring of the GVP and CVSC supply wells and residential potable wells.
February 2009:	Permanent screened monitoring wells were constructed in the open boreholes of monitoring wells MW-5 through MW-8.
February 27, 2009:	EA submitted Soil Vapor Extraction (SVE) Pilot Testing Results to the MDE.
March 12, 2009:	Five shallow monitoring wells (MW-9 through MW-13) were installed.
May 20, 2009:	The MDE issued Changes to Off-Site Sampling Frequency, changing the
June 5, 2009:	frequency of sampling residential POET systems to quarterly, and restating the required frequency of sampling offsite residential potable wells. The MDE also sent letters to area residents to inform them of the sampling frequency changes. A <i>Hydrogeologic Investigation Update and Work Plan</i> was submitted to MDE, detailing recent monitoring well installation, groundwater and potable well sampling, and updating the SCM. The <i>Work Plan</i> proposed the installation and geophysical testing of one deep monitoring well, installation of five shallow
August 21, 2009:	monitoring wells to help monitoring pump testing, packer testing of the deep monitoring well, pump testing of monitoring well MW-10, installation of an injection well, and injection testing of that well. A meeting was conducted with representatives of Carroll, EA, and MDE to discuss monitoring well installation and aquifer testing activities proposed in the <i>Work Plan</i> . It was decided that additional investigation in the vicinity of the tank field was necessary, and that short-term and long-term aquifer testing would be completed on monitoring wells close to the tank field in order to determine
August 26, 2009:	hydraulic conductivity and determine if any of the selected wells could function as recovery wells. <i>Work Plan Update</i> was submitted to the MDE, proposing installation of two deep monitoring wells, installation of two shallow monitoring wells, down-hole geophysical testing, packer testing of proposed deep monitoring well PMW-14D, a 72-hour pumping test on proposed deep monitoring well PMW-15D, and 4- hour pumping tests on monitoring wells MW 10 and MW 13, and proposed
September 22, 2009:	monitoring wells PMW-16, and PMW-17. The MDE approved the <i>Work Plan Update</i> , but required a brief report be submitted prior to packer testing, and a brief report be submitted prior to the short-term pumping tests



- September 21–25, 2009:Deep monitoring wells MW-14D and MW-15D and shallow monitoring wells MW-16 and MW-17 were installed. The monitoring wells were left as open boreholes.
- October 8, 2009: EA submitted *Response to September 22, 2009 Directive*, and included the required details of the planned short-term pumping tests.
- October 19, 2009: Pumping tests were performed onsite, including a step-drawdown test and subsequent 72-hour pumping test on monitoring well MW-15D.
- November 2, 2009: Geophysical testing of monitoring wells MW-14D, MW-16 and MW-17 was performed.
- November 4, 2009: *Packer Testing Work Plan* was submitted to the MDE.
- November 2009: Packer testing was completed on monitoring well MW-14D.
- December 29, 2009: A groundwater infiltration investigation (percolation test) was conducted on-site.
- March 15, 2010: EA submitted *Update Report and Work Plan* to the MDE detailing monitoring well installation, step testing, pump testing, geophysical well testing and packer testing. The *Work Plan* proposed the installation of 2-inch wells within monitoring well MW-14D, conversion of monitoring wells MW-15D, MW-16 and MW-17 to permanent screened wells, and the submittal of a *Corrective Action Plan* (CAP).
- June 17, 2010: MDE issued *Request for Corrective Action Plan*, requiring the submittal of a CAP by August 6, 2010. The MDE also required that monitoring well MW-14D be finished as a 4-inch well, and a new 4-inch well, MW-14S be installed adjacent to it; and approved the completion of monitoring wells MW-15D, MW-16, and MW-17 as permanent screened wells, continued quarterly groundwater sampling, the initiation of quarterly sampling of the GVP POET system, continued quarterly sampling of residential POET systems, continued quarterly sampling of 14 residential potable wells, continued semi-annual sampling of 8 residential potable wells.
- July 9, 2010: Carroll submitted a response to the MDE's request for a CAP, requesting an extension of the deadline for the submittal of a CAP to October 31, 2010.
- July 19-21, 2010:Monitoring well MW-14S was installed onsite.Monitoring wells MW-15D,
MW-16, and MW-17 were converted to permanent screened wells.
- August 9, 2010: The MDE approved the extension of the deadline for CAP submittal.
- August 10, 2010: A meeting was conducted between GES, Carroll, and the MDE.
- September 2010: The case was transferred from EA to GES.
- September 9, 2010: GES submitted *Pilot Scale Study Work Plan* to the MDE, proposing the installation of three nested injection wells, a nested observation well, and a vapor extraction well; and an ISCO pilot test involving the injection of hydrogen peroxide and ozone at three subsurface intervals during a two-day pilot test.
- October 13, 2010: A *Proposed Groundwater and Potable Well Sampling Program* was submitted to the MDE, proposing low-flow sampling methods and the collection of field measurements to replace the current purge and sample method for groundwater sampling; and the removal of Total Petroleum Hydrocarbons Diesel Range Organics (TPH-DRO) from the list of parameters analyzed for all monitoring and non-transient, non-community supply wells. All POET system sampling, non-transient, non-community supply well sampling and residential potable well sampling was to remain on the schedule previously followed.

November 16–19, 2010:Nested monitoring wells MW-18S and MW-18D, vapor extraction well VE-1 and injection wells IW-1S/D, IW-2S/D and IW-3S/D were installed onsite.



November 18, 2010:	The MDE approved the <i>Pilot Scale Study Work Plan</i> , with slight modifications, and the use of low-flow sampling techniques at the Site. The MDE approved the elimination of TPH-DRO and TPH-Gasoline Range Organics (GRO) from analysis of samples collected from the GVP POET system, the GVP supply wells, and the GVSC supply wells. The MDE stated that the request to eliminate TPH-DRO from the analysis of groundwater would be considered pending a review of low-flow sampling data and pilot testing activities.
November 30, 2010:	ISCO pilot testing was conducted onsite.
December 1, 2010:	Carroll informed the MDE of the results of the pilot testing via email, and included a proposed plan to redevelop the injection wells and introduce air to see if they could be used for further injection testing. Carroll also requested to modify the post-ISCO pilot test groundwater sampling plan proposed in the <i>Pilot Scale Study Work Plan</i> . Monitoring wells sampled prior to the pilot testing (with the exception of MW-18S and MW-18D) would be omitted from additional groundwater sampling in December 2010. The MDE approved both proposals via email.
December 8, 2010: December 15, 2010: January 4, 2011:	Injection wells IW-1S/D, IW-2S/D and IW-3S/D were re-developed. Slug testing was conducted on monitoring wells MW-18S and MW-18D. Monitoring wells MW-18S and MW-18D, vapor extraction well VE-1 and injection wells IW-1S/D, IW-2S/D and IW-3S/D were surveyed into the existing well network.



APPENDIX C

Soil Boring Log and Monitoring Well Construction Documentation

		K	LO Dat Dat Tot Bor Bec Ele Rer	g of Boring te Started: al Depth (ft): 'ing Diameter Irock Depth (f vation (ft-msl) nark:	g: GP 09 10 (in): 2 ft): N	01Project Code:1953/14/05Project Name:Green Valley Citgo/14/05Drilled By:Earth Matters, Inc00Logged By:Jason ThomasDrill Rig:Simco Earthprobe 200ADrill Method:Direct pushASampling Method:Acetate sleeves				
Depth	Sample Number	Sample Interval	Recovery (inches)	Blow Counts	PID Units	Lithological Description	Interpreted Lithology	Well Construction	Comments	
0	1		48		0.0	ASPHALT SC: Red sandy clay, dry, no odor.				
-5	2		48		19.4	SHALE: Red/orange silty sandy weathered shale, dry.				
-10 -	3		36		96.3					
	4		36		770				Sample collected 11'-14' for laboratory analysis. Slight petroleum odor 11'-16'.	
-15 -	5		24		575					







		K	Lo Dat Dat Tot Bor Bec Ele Rer	g of Boring te Started: te Completed: al Depth (ft): fing Diameter lrock Depth (f vation (ft-ms) nark:	g: GP 0 1 (in): 2 ft): N 0: N	-05 9/14/05 9/14/05 2.50 I/A I/A	Project Code:1953Project Name:Green Valley CitgoDrilled By:Earth Matters, Inc.Logged By:Jason ThomasDrill Rig:Simco Earthprobe 200Drill Method:Direct pushSampling Method:Acetate sleeves				
Depth	Sample Number	Sample Interval	Recovery (inches)	Blow Counts	PID Units	Lithological Description	Interpreted Lithology	Well Construction	Comments		
0 - -	1		48		0.0	ASPHALT SHALE: Red silty shale, dry, no odor.					
-5-	2		48		0.0						
-	3		36		0.0				Collected sample 8'-11' for laboratory analysis.		
-10 -	4		18		0.0						

		2	Lo Dat Dat Tot Bot Bec Ele Ret	bg of Borin te Started: te Completed: tal Depth (ft): ring Diameter drock Depth (vation (ft-ms) mark:	g: GP 0 1 (in): 2 ft): N): N	-06 9/15/05 9/15/05 7.00 I/A I/A	Project Code:1953Project Name:Green Valley CitgoDrilled By:Earth Matters, Inc.Logged By:Jason ThomasDrill Rig:Simco Earthprobe 200Drill Method:Direct pushSampling Method:Acetate sleeve			
Depth	Sample Number	Sampte Interval	Recovery (inches)	Blow Counts	PID Units	Lithological Description		Interpreted Lithology	Well Construction	Comments
0	1		48		49.5	ASPHALT SHALE: Silty sandy weathered shale, dry, brown/orange, no odor.				
-5-	2		48		540					
-10	3		36		803					Sample collected 8'-11' for laboratory analysis.
-	4		36		221					
-15 –	5		24		225					
-	6		12		137					

Log of Boring Date Started: Date Completed: Total Depth (ft): Boring Diameter Bedrock Depth (f Elevation (ft-msl) Remark:						-07 9/15/05 9/15/05 4.00 I/A	Project Code:1953Project Name:Green Valley CitgoDrilled By:Earth Matters, Inc.Logged By:Jason ThomasDrill Rig:Simco Earthprobe 200Drill Method:Direct pushSampling Method:Acetate sleeves			
Depth	Sample Number	Sample Interval	Recovery (inches)	Blow Counts	PID Units	Lithological Description	Interpreted Lithology	Well Construction	Comments	
0	1		48		0.0	ASPHALT CL: Red clay, dry, no odor.				
-5	2		48		308	SHALE: Silty sandy weathered shale, orange/brown, dry, no odor.				
-	3		36		246					
-10 -	4		36		502				Sample collected 11'-14' for laboratory analysis.	
15 En	viron	iment	al All	iance, Inc	•				Page 1 of 1	

		R	LO Dat Dat Tot Bor Bec Ele Rer	g of Boring te Started: te Completed: al Depth (ft): fing Diameter lrock Depth (f vation (ft-msl) nark:	g: GP 0 1 (in): 2 ft): N 0: N	-08 P 9/15/05 P 9/15/05 D 7.00 L 1/A D 1/A S	Project Code:1953Project Name:Green Valley CitgoDrilled By:Earth Matters, Inc.Logged By:Jason ThomasDrill Rig:Simco Earthprobe 200Drill Method:Direct pushSampling Method:Acetate sleeves				
Depth	Sample Number	Sample Interval	Recovery (inches)	Blow Counts	PID Units	Lithological Description	Interpreted Lithology	Well Construction	Comments		
0	1		48		0.0	ASPHALT MH: Red silty clay, dry, no odor.					
-5	2		48		0.0						
1	3		36		0.0	dry, brown/orange, changes to red at 11'.					
-10	4		36		0.0						
-15 -	5		24		398				Sample collected 14'-16' for laboratory analysis.		
- - -	6		12		0.0						

Log of Boring Date Started: Date Started: Date Completed: Total Depth (ft): Boring Diameter (Bedrock Depth (ft Elevation (ft-msl): Remark:						-09 9/15/05 9/15/05 0.00 I/A I/A	Project Code:1953Project Name:Green Valley CitgoDrilled By:Earth Matters, Inc.Logged By:Jason ThomasDrill Rig:Simco Earthprobe 200Drill Method:Direct pushSampling Method:Acetate sleeves			
Depth	Sample Number	Sample Interval	Recovery (inches)	Blow Counts	PID Units	Lithological Description	Interpreted Lithology	Well Construction	Comments	
0- - -	1		48		0.0	ASPHALT SHALE: Red/brown silty sandy weathered shale, dry, no odor.				
- -5	2		48		0.0					
-10 –	3		36		0.0					
-	4		36		0.0					
-15 -	5		24	:	0.0					
- - -20	6 7		36 12		0.0 0.0				Sample collected 18'-20' for laboratory analysis.	



Log of Boring: MW-1Date Started:02/07/06Date Completed:02/07/06Total Depth (ft):61.50Boring Diameter (in):6Bedrock Depth (ft):38Elevation (ft-msl):N/ARemark:N/A							Project Code:1953Project Name:Green Valley CitgoDrilled By:EichelbergersLogged By:Andrew ApplebaumDrill Rig:Schramm T450WSDrill Method:Air rotarySampling Method:N/A		
Depth	Sample Number	Sample Interval	Recovery (inches)	Blow Counts	PID Units	Lithological Description	Interpreted Lithology	Well Construction	Comments
-5-					0.0	ASPHALT: and gravel fill. MH: Orange brown/tan alternating micaceous silt, dry. Soft spot, damp at 12'.			Background air PID 0.0. Set 2" Sch. 40 PVC well at 60.5' with 20' of 0.01"-slot screen and 40' of casing. #1 sand 61.5'-38', bentonite 38'- 2', cement/set manhole 2'- grade.
-10 – -15 –									
-20 -									
-25 - -30 -					0.0	SAPROLITE: Tan micaceous weathered rock, dry, harder drilling with depth.			
-35 -									
-40 -					0.0	BEDROCK: Gray micaceous rock, dry, hard drilling, possible soft			
-45 -						2011es at 55 to 57.			
-50 -									
-55 -									
-60 - -									

Log of Boring Date Started: Date Started: Date Completed: Total Depth (ft): Boring Diameter Bedrock Depth (ft Elevation (ft-msl) Remark:						V-2 2/07/06 2/07/06 1.50 3 I/A	Project Code Project Nam Drilled By: Logged By: Drill Rig: Drill Methoo Sampling Me	e: 1953 e: Green Va Eichelber Andrew A Schramm l: Air rotar; ethod: N/A	alley Citgo rgers Applebaum n T450WS y
Depth	Sample Number	Sample Interval	Recovery (inches)	Blow Counts	PID Units	Lithological Description	Interpreted Lithology	Well Construction	Comments
0- -5- -10 - -15 - -20 -					0.0	ASPHALT: and gravel fill. MH: Orange brown micaceous silt, grades to red brown, soft, dry to damp with depth.			Background air PID 0.0. Set 2" Sch. 40 PVC well at 60.5' with 20' of 0.01"-slot screen and 40' of casing. #1 sand 61.5'-37', bentonite 37'- 2',cement/set manhole 2'- grade.
-25 -					0.0	SAPROLITE: Orange brown to red brown weathered micaceous rock & rock fragments, dry.			
-35 -					0.0	BEDROCK: Gray micaceous rock, dry, darker moist zones at 41' 47', 53' & 57'. The 53' & 57' zones produce water.			
-40 -									
-50 -									
-55 - - - -60									

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			LO Dat Dat Tot Bot Bec Ele Ret	by of Borin te Started: te Completed: tal Depth (ft): ring Diameter drock Depth (vation (ft-ms) mark:	g: MV 0 0 (in): 6 (in): 6 (t): 3): N	V-3 Pr 2/07/06 Pr 2/07/06 Dr 1.50 Lo Dr 2 Dr V/A Sa	roject Code roject Nam rilled By: ogged By: rill Rig: rill Methoo mpling Me	e: 1953 e: Green Va Eichelber Andrew J Schramm h: Air rotar ethod: N/A	alley Citgo rgers Applebaum n T450WS y
Depth	Sample Number	Sample Interval	Recovery (inches)	Blow Counts	PID Units	Lithological Description	Interpreted Lithology	Well Construction	Comments
0					0.0 14.9	ASPHALT: and gravel fill. MH: Orange brown to red			Background air PID 0.0. Backfilled borehole to 64' with bentonite and 64' to 60' with #1 sand. Set 2" Sch. 40 PVC
-10 -						fragments, dry. Soft damp zone 8'-9'.			well at 60' with 20' of0.01"-slot screen and 40' of casing. #1 sand 60'-38', bentonite 38'-2', cement/set manhole 2'-grade.
-20					7.9				
-25						micaceous weathered rock, dry.			
-30					2.2	BEDROCK: Orange brown to tan micaceous rock, dry.			
-40 -						-			
-45 -						BEDROCK: Gray micaceous rock, dry, with darker discoloration/damp			
-50 -						at 47'.			
-55 -									
-65 –			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1						
-70 -									
-75									
-80 -									

		K	Lo Dat Dat Tot Bor Bec Ele Rer	g of Borin te Started: te Completed: tal Depth (ft): ring Diameter drock Depth (f vation (ft-msl) nark:	g: MV 0 (in): 6 (in): 6 (it): 2	/-4 2/06/06 1 2/06/06 1 1.50 1 8 1/A 5	Project Code Project Nam Drilled By: Logged By: Drill Rig: Drill Method Sampling Mo	e: 1953 e: Green Va Eichelbe Andrew Schramn l: Air rotar ethod: N/A	alley Citgo rgers Applebaum n T450WS y
Depth	Sample Number	Sample Interval	Recovery (inches)	Blow Counts	PID Units	Lithological Description	Interpreted Lithology	Well Construction	Comments
0- -5- -10 - -10 -					0.0	ASPHALT: and gravel fill. MH: Orange brown micaceous silt, some fine to medium sand & rock fragments, grades to micaceous silt, dry.			Background air PID 0.0. Set 2" Sch. 40 PVC well at 60.5' with 20' of 0.01"-slot screen and 40' of casing. #1 sand 61.5'-38', bentonite 38'- 2',cement/set manhole 2'- grade.
-20 -					0.0 0.0	MH: Orange-red micaceous silt, dry to damp.			
-25 — -						micaceous weathered rock, dry.			
-30 -						BEDROCK: Tan micaceous rock, competent, harder drilling, dry			
-35 —						uly.			
-40 - -									
-45 -						BEDROCK: Gray micaceous rock with soft spot/dust reduction at 49'- 50' and 58'.			
-50 -									
-55 -									
-60 -									

Log of Boring: Date Started: Date Completed: Total Depth (ft): Boring Diameter (in Bedrock Depth (ft): Elevation (ft-msl): Remark:						-1 Pr 5/31/07 Pr 5/31/07 Dr 5.25 Lc Dr V/A Dr V/A Sa	oject Code oject Nam filled By: ogged By: fill Rig: fill Methoo mpling Me	e: 1953 e: Green Va Earth Ma Aaron Ha Boart Lon I: Hollow st ethod: Split spoo	alley Citgo atters, Inc. artman ngyear tem auger on	
Depth	Sample Number	Sample Interval	Recovery (inches)	Blow Counts	Old	Lithological Description	Interpreted Lithology	Well Construction	Comments	
-5-	2		9	10-30-38-40	0.0 0.0 0.0	SC: Orange-brown micaceous silt with phyllite gravel, dry.				
- -10	3		10	18-46-51/4"	0.0 0.0 0.0 0.0 0.0 0.0	SAPROLITE: Micaceous phyllite (saprolite, orange brown, silty, dry).				
-15 -	4		10	20-51/5"	0.0 0.0 0.0 0.0 0.0 0.0 0.0	SAPROLITE: Light brown micaceous phyllite, silty, dry. SAPROLITE: Same as above with quartz gravel.				
	A / 9	k	Lo Dat Dat Tot Bot Bec Ele Ret	g of Borin te Started: te Completed: tal Depth (ft): ring Diameter drock Depth (vation (ft-ms) mark:	g: SV 0 3 (in): 8 ft): N): N	-1 5/31/07 5/31/07 5.25 V/A V/A	Project Code:1953Project Name:Green Valley CitgoDrilled By:Earth Matters, Inc.Logged By:Aaron HartmanDrill Rig:Boart LongyearDrill Method:Hollow stem augerSampling Method:Split spoon			
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Depth	Sample Number	Sample Interval	Recovery (inches)	Blow Counts	Old	Lithological Description	Interpreted Lithology	Well Construction	Comments	
-20	5 6 7		12 16 7	20-51/5" 51/4" 51/4.5"	0.0 0.0 0.0 0.0 0.0 0.0	SAPROLITE: Orange brown silt with quartz gravel, moist. SAPROLITE: Orange brown, with quartz gravel dry.				
- -25 –	9 10 11		6 1 NA	51/5" 71/6" 100/1"	0.0 0.0 0.0 0.0 0.0	SAPROLITE: Orange brown gray phyllite.			Collected soil sample from 24.5' for laboratory analysis of VOCs, fuel oxygenates, TPH- DRO & TPH-GRO.	
-30 -	12		NA		0.1	SAPROLITE: Same as above with fine cuttings.				
-35 -	13	××××	3	51/3"		above with larger phyllite cuttings. SAPROLITE: Same as above with fine cuttings - green/dark gray on fresh surfaces.				

		k	LC Da Da To Bo Be Ele Re	bg of Boring te Started: te Completed: tal Depth (ft): ring Diameter drock Depth (f evation (ft-msl) mark:	g: SV 0 3 (in): 8 (t): N :: N	-2 Pr 5/31/07 Pr 5/31/07 Dr 0.25 Lc J/A Dr I/A Sa	Project Code:1953Project Name:Green Valley CitgoDrilled By:Earth Matters, Inc.Logged By:Aaron HartmanDrill Rig:Boart LongyearDrill Method:Hollow stem augerSampling Method:Split spoon			
Depth	Sample Number	Sample Interval	Recovery (inches)	Blow Counts	QId	Lithological Description	Interpreted Lithology	Well Construction	Comments	
0 - -5	1		45	10 10 46 45	0.1	SC: Orange brown micaceous silt with phyllite gravel.				
	2		15	12-12-16-15	0.1 0.0 0.0 1.0	SAPROLITE: Dark brown silt, gravel & sand (highly weathered phyllite).		anders the structure of the statement of School S		
-10 -	3		18	12-51/4.5"	1.0 9.0	SAPROLITE: Orange brown micaceous silt/phyllite.				
-15	4		3	51/3"	6.0	SAPROLITE: Light brown micaceous silt/phyllite.				

	Depth Sample Number Sample Interval			g of Borin e Started: te Completed: al Depth (ft): ting Diameter lrock Depth (vation (ft-msl nark:	g: SV 0 3 (in): 8 ft): N): N	-2 H 5/31/07 H 5/31/07 H 0.25 H 1/A H 1/A S	Project Code:1953Project Name:Green Valley CitgoDrilled By:Earth Matters, Inc.Logged By:Aaron HartmanDrill Rig:Boart LongyearDrill Method:Hollow stem augerSampling Method:Split spoon				
Depth	Sample Number	Sample Interval	Recovery (inches)	Blow Counts	Q	Lithological Description	Interpreted Lithology	Well Construction	Comments		
-20 -	5		1	51/1"	1.0	SAPROLITE: Light brown & gray phyllite.			Collected soil sample from 20' for laboratory analysis of VOCs, fuel oxygenates, TPH- DRO & TPH-GRO.		
-25 -	6	***	5	51/5"	14.3	SAPROLITE: Same as above.			Collected soil sample for laboratory analysis of TPH- DRO as composite sample from 25' & 30' due to insufficient volume.		
-30 -	7	xxxx	3	51/3"	20.3 30.2				Collected soil sample from 30' for laboratory analysis of VOCs, fuel oxygenates & TPH-GRO.		
-35 -											

		R	LC Da Da To Bo Be Elc Re	bg of Boring te Started: te Completed: tal Depth (ft): ring Diameter drock Depth (f evation (ft-msl) mark:	g: SV- 04 32 (in): 8 (i): N (i): N	-3 Pr 6/01/07 Pr 6/01/07 Dr 2.00 Lo Dr //A Dr //A Sa	Project Code:1953Project Name:Green Valley CitgoDrilled By:Earth Matters, Inc.Logged By:Chris ThoenyDrill Rig:Boart LongyearDrill Method:Hollow stem augerSampling Method:Split spoon			
Depth	Sample Number	Sample Interval	Recovery (inches)	Blow Counts	OIA	Lithological Description	Interpreted Lithology	Well Construction	Comments	
0-	1				0.0	SC: Orange brown micaceous silt, moist, with pieces of mica schist/phyllite (quartz veins).				
-5 -	2		14	9-25-32-40	3.6 2.7	SC: Saprolite crushes to gravel & silt. PID screening of cuttings 4.0-35.0.				
-10 - - -	3		15	16-23-24-24	24.6 39.0	SAPROLITE: Orange red saprolite/phyllite. PID screening of cuttings 29.0-16.0.			Collected soil sample from 10' to 12' and 15'-17' for laboratory analysis of VOCs, fuel oxygenates, TPH-DRO & TPH-GRO.	
-15 - - -	4		14	24-51/5"	24.0 55.0	SAPROLITE: Orange red silt (crushed saprolite) with minor pieces of rock. PID screening of cuttings 21.9-16.0.				
-20 - - -	5		15	35-51/4"	17.4 36.3	SAPROLITE: Weathered phyllite, satiny texture, crushes to gravel & silt, orange red & tan, high angle foliations. PID screeningof cuttings 29 5-42 6				
-25	6		4	51/4"	11.3 21.7	SAPROLITE: Red, micaceous, orange red silt with some rock fragments. PID screening of cuttings 52.1-14.5.				
-30	7		5	51/4"	10.2 6.8	SAPROLITE: Red orange phyllite/saprolite.				

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	Depth Sample Number Sample interval			bg of Boring te Started: te Completed: tal Depth (ft): ring Diameter drock Depth (f evation (ft-msl) mark:	g: SB 04 1 (in): 8 ft): N : N	-1 Pr 6/01/07 Pr 6/01/07 Dr 7.00 Lo Dr I/A Dr I/A Sa	Project Code:1953Project Name:Green Valley CitgoDrilled By:Earth Matters, Inc.Logged By:Chris ThoenyDrill Rig:Boart LongyearDrill Method:Hollow stem augerSampling Method:Split spoon			
Depth	Sample Number	Sample Interval	Recovery (inches)	Blow Counts	Olq	Lithological Description	Interpreted Lithology	Well Construction	Comments	
0	1				0.0	SC: Pinkish brown micaceous silt with pieces of phyllite.				
-5	2		13	11-18-18-24	0.0	SAPROLITE: Red silt with crushed micaceous phyllite.				
-10	3		18	10-20-40-46	0.0	SAPROLITE: Gray & red weathered phyllite with high laminations/foliation.				
-15	4		13	51/5"	0.0	SAPROLITE: Reddish brown silt, red-gray saprolite, relict structure, satiny texture (phyllite).			Collected soil sample from 15'-17' for laboratory analysis of VOCs, fuel oxygenates, TPH-DRO & TPH-GRO.	

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		L Da Da Da Da Ta Ba Ba El Ra	og of Bo ate Started: ate Complet otal Depth (oring Diame edrock Dept levation (ft-) emark:	ring: MV ted: (ft): ft): ft eter (in): th (ft): f msl): f Permi	V-5 05/12/08 02/23/09 70.00 12"/8" 36 N/A t # FR-95-0982	Project C Project N Drilled B Logged B Drill Rig: Drill Met Sampling	Code: [ame:] y:] y:] y:] hod:] g Method:	1953 Monrovia BP (fo Eichelbergers Chris Thoeny Schram T450 Air Hammer Ro Cuttings	rmer Green Valley Citgo) Dtary
Depth	Sample Number	Sample Interval	Recovery (inches)	PID/ FID	Lithological Description		Interpreted Lithology	Well Construction	Comments
-5 -10 -15 -20 -25 -30 -35 -35 -40 -45 -55 -55 -60 -55				0.3 0.3 0.2 0.2 0.2 0.2 1.4 0.7 0.7	SAPROLITE: Asphalt then orange-tan silt ar with pieces of flat, ang silver-gray phyllite / sa SAPROLITE: Saprolit to pinkish brown mica SAPROLITE: Light tar micaceous saprolite a SAPROLITE: Saprolit to varicolored orange- slightly micaceous silt SAPROLITE: Saprolit above, all soft drilling increase in crushed ro fragments at 29'. SAPROLITE: Saprolit above, possible soft z and 34'. BEDROCK: Bedrock a shows increase in dus cuttings change to gra crushed phyllite/schist moist and discolored t tan at 39', then more of drilling by 40'. BEDROCK: Phyllite/schist moist and discolored t tan at 39', then more of drilling by 40'. BEDROCK: Phyllite/schist moist and discolored t tan at 39', then more of drilling by 40'. BEDROCK: Phyllite/schist moist and discolored t tan at 39', then more of drilling by 40'. BEDROCK: Phyllite/schist moist and discolored st tan at 39', then more of drilling by 40'. BEDROCK: Phyllite/schist moist and discolored st tan at 39', then more of drilling by 40'. BEDROCK: Phyllite/schist moist and discolored st tan at 39', then more of drilling by 40'. BEDROCK: Phyllite/schist pack to gray at 49.5' w drilling.	, gravel nd clay gular, aprolite. e crushed ceous silt. n colored s above. e crushed brown, e as with ock e as one at 33 at 36' t and ty silt (from). Slightly an-light competent chist as zone at d brown rock hange with harder bove. zones at dicated by oloration. chist, / zone at Soft			0-5' soft dig with air knife. 5'-14' drill with a 12" dual roller bit Drill out hole with 8" diameter air hammer. Well Construction - Flushmount: Steel casing 0 to 14-ft. bgs. Cement placed from 0 to 30-ft. bgs. Bentonite placed from 30 to 33-ft. bgs Filter pack of #1 sand placed from 33 to 70-ft. bgs. 4-inch Schedule 40 PVC riser placed from 0 to 40-ft. bgs 4-inch Schedule 40 PVC 0.020-inch slotted screen placed from 40 to 70-ft. bgs
-70 – Env	vironm	ental Al	liance, I	nc.	zone with some discol 69-70'	oration			End boring at 70' Page 1 of 1

	the second secon		Dg of Bol ate Started: ate Complet tal Depth (ring Diame drock Dept evation (ft- mark:	ring: MW 6 6 6 6 6 6 6 6 6 6 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8	/-6 5/12/08 2/23/09 6.00 2"/8" 8 I/A # FR-95-0983	Project Code:1953Project Name:Monrovia BP (former Green ValleyDrilled By:EichelbergersLogged By:Chris ThoenyDrill Rig:Schram T450Drill Method:Air Hammer RotarySampling Method:Cuttings			rmer Green Valley Citgo) otary
Depth	Sample Number	Sample Interval	Recovery (inches)	PID/ FID	Lithological Description		Interpreted Lithology	Well Construction	Comments
-5- -10-				1.7 2.0	SAPROLITE: Asphalt, then orange-tan silt an with pieces of flat, ang silver-gray phyllite / sa SAPROLITE: Saprolite to brown slightly micac Cuttings change from a brown to brown at ~ 10	gravel d clay ular, prolite a, crushed æous silt. orange-)'.			0-5' soft dig with air knife. 5'-14' drill with a 12" dual roller bit
-15				0.4	SAPROLITE: Cuttings. micaceous silt with fine schist/phyllite and quar fragments.	, brown 9 grain rtz	$\begin{bmatrix} \wedge \\ \\ \\ \wedge \end{bmatrix}$		Drill out hole with 8" diameter air hammer. Well Construction - Flushmount
-25				4.8	SAPROLITE: As above drilling at 26.5'	e, soft	$\begin{bmatrix} \land & \\ & \land \\ & \land \\ & \land \\ & \land \end{bmatrix}$		Steel casing 0 to 14-ft. bgs. Cement placed from 0 to 33-ft. bgs. Bentonite placed from 33 to 36-ft. bgs Filter pack of #1 sand placed from 36 to 59.5-ft. bgs.
-35 -				0.0	SAPROLITE: Cuttings soft, moist zone at 35' reddish brown discolor	as above, with ation.			riser placed from 0 to 39.5- ft. bgs 4-inch Schedule 40 PVC 0.020-inch slotted screen placed from 39.5 to 59.5-ft. bgs
-45				0.0	SAPROLITE: Saprolite Cuttings: Brown, micac	: œous silt.			
-50 - -							$\begin{bmatrix} A \\ A \end{bmatrix}$		
-55 - -60 - -65 -				22.4	BEDROCK: Harder dri cuttings change to silve greenish gray phyllite/s slightly micaceous with veins. Begin show wat Possible fracture at 64. Showing good water by	ling at 58', ar and schist, i quartz er at 62'. y 66'.			Boring depth measures 59.5' indicating the bedrock that the boring infiltrated collapsed. End boring at 66'
Env	ironm	ental Al	liance, I	nc.			I		Page 1 of 1

		L D: D: To Bo Bo El Ro	og of Bo ate Started: ate Complet otal Depth (oring Diame edrock Dept evation (ft- emark:	ring: MV (ed: () ft): { eter (in): { h (ft): { nsl): } Permin	V-7 05/12/08 02/24/09 80.60 12"/8" 50 N/A t # FR-95-0984	Project C Project N Drilled B Logged E Drill Rig Drill Met Sampling	Code: lame: y: Jy: sy: thod: g Method:	1953 Monrovia BP (fo Eichelbergers Chris Thoeny Schram T450 Air Hammer Ro Cuttings	rmer Green Valley Citgo) otary
Depth	Sample Number	Sample Interval	Recovery (inches)	PID/ FID	Lithological Description		Interpreted Lithology	Well Construction	Comments
-5 -10 -15 -20 -25 -30 -35 -40 -45 -55 -60 -65 -70 -75				0.0 0.3 0.2 0.3 0.8 0.8 9.8 9.8	SAPROLITE: Asphalt, then orange-tan silt ar with pieces of flat, ang silver-gray phyllite / sa SAPROLITE: Pinkish, micaceous saprolite g sand and clay with pie grain rock fragments. SAPROLITE: As abov from 15-16', harder dr 19' SAPROLITE: Orange- micaceous silt. Soft z SAPROLITE: Cuttings become slightly darken harder drilling at 32'. SAPROLITE: Cuttings soft zone at 41' and 46 change to orange at 4 BEDROCK: Cuttings of silver-blue-gray, very of Soft zone at 60', cuttin to green-brown phyllite End boring at 63'. BEDROCK: Phyllite, v shades of brown and r cuttings with small frag phyllite. 73'-74' evidence of wa	, gravel nd clay gular, aprolite round to cess of fine // // // // // // // // // /			 0-5' soft dig with air knife. 5'-14' drill with a 12" dual roller bit Drill out hole with 8" diameter air hammer. Well Construction - Flushmount: Steel casing 0 to 19.5-ft. bgs. Cement placed from 0 to 48.5-ft. bgs. Filter pack of #1 sand placed from 52 to 80.6-ft. bgs. 4-inch Schedule 40 PVC 0.020-inch slotted screen placed from 53 to 80-ft. bgs Begin adding water at 50' to keep dust down.
-80 -	ironm	ental Al	liance, I	nc.					End boring at 80.6' Page 1 of 1

	Log of Bo Date Started Date Comple Total Depth Boring Diam Bedrock Dep Elevation (ft Remark:			ing: MW-8 Project 05/12/08 Project ed: 02/23/09 Drilled t): 71.00 Logged ter (in): 12"/8" Drill Rig n (ft): 38 Drill Mo nsl): N/A Samplin Permit # FR-95-0985 답 Lithological			Code:1953Name:Monrovia BP (former Green Valley Citgo)By:EichelbergersBy:Chris Thoenyig:Schram T450lethod:Air Hammer Rotaryng Method:Cuttings			
Depth	Sample Number	Sample Interval	Recovery (inches)	PID/ FID	Lithological Description		Interpreted Lithology	Well Construction	Comments	
-5 -10 -15 -20 -25 -30 -35				0.4	SAPROLITE: Asphalt, g then orange-tan silt and with pieces of flat, angu silver-gray phyllite / sap SAPROLITE: Pinkish-ta micaceous phyllite, soft Color change to deeper Slightly firmer drilling by SAPROLITE: Crushed S light tan-brown micaceo grain silt.	ravel clay lar, rolite n, at 10'. orange. 15' Saprolite: us fine			0-5' soft dig with air knife; Rain; Breathing Zone PID 2.1-5.1 5'-15' drill with a 12" dual roller bit Drill out hole with 8" diameter air hammer. Well Construction - Flushmount: Steel casing 0 to 15-ft. bgs. Cement placed from 0 to 33-ft. bgs. Bentonite placed from 33 to 36-ft. bgs Filter pack of #1 sand placed from 36 to 71-ft. bgs. 4-inch Schedule 40 PVC riser placed from 0 to 45-ft. bgs 4-inch Schedule 40 PVC 0.020-inch slotted screen placed from 45 to 70-ft. bgs	
-40				0.4	BEDROCK: Greenish g schist, crushed to silt wi grain pieces of slightly micaceous rock.	ray th fine	$\Lambda^{\wedge}\Lambda^{\prime}$ $\Lambda^{\wedge}\Lambda^{\prime}$ $\Lambda^{\wedge}\Lambda^{\prime}$		Slightly harder drilling	
-45				1.8	BEDROCK: Possible wa bearing zone, softer dril decrease in dust.	ater ling and				
-55				1.8 2.4 2.4	BEDROCK: Major incre dust at 55'. Rock fragm dark green, slightly mica schist with quartz veins.	ase in ents: aceous			Drill out boring at 60' clear hole and let sit for recharge	
-60 -65 -65				0.2	BEDROCK: Cuttings: C phyllite/schist as bluish- fairly dry. Soft zone at 6 some brown discoloratio Cuttings show gradual c in dust 66-70'.	rushed gray silt, 64' with on. lecrease			water accumulated in hole after allowing to sit for 24 hours.	
-70 -							$\sqrt{\Lambda}$		End boring at 71'	
Env	ironm	ental Al	lliance, Iı	nc.					Page 1 of 1	

		Lo Da Da Da To Bo Be Ele Re	Dg of Bo ate Started: te Complet tal Depth (ring Diame drock Dept evation (ft- mark:	0 ted: 0 ft): 7 eter (in): 8 th (ft): 2 msl): N Permit	/-9 2/25/09 3/11/09 8.00 2 I/A # FR-95-1216	Project Co Project Na Drilled By Logged By Drill Rig: Drill Meth Sampling	ode: 1 ame: M /: E y: M S nod: A Method: 0	953 Aonrovia BP (for Eichelbergers Aegan Brown Schramm T450 Air Hammer Ro Cuttings	rmer Green Valley Citgo) otary
Depth	Sample Number	Sample Interval	Recovery (inches)	PID/ FID	Lithological Description		Interpreted Lithology	Well Construction	Comments
-10 -10 -15 -20 -25 -30 -35 -40 -45 -55 -60		<i>w</i> =		0.0 0.0 0.0 0.0	SAPROLITE: Saprolite, with rock (phyllite) fragr 17'-17.5 Orange with no fragments. BEDROCK: Phyllite, va shades of brown and m cuttings with rock (phyll fragments. 22' Increase in amount fragments. 55'-56' Soft zone. 56'-58' Grey. 61'-64' Grey. 64'-66' Greenish. 71'-73' Greenish. 71'-78' Greenish.	brown nents. prock			Well Construction - Flushmount: Steel casing 0 to 10.5-ft. bgs. Cement placed from 0 to 40-ft. bgs. Bentonile placed from 40 to 46-ft. bgs Filter pack of #1 sand placed from 46 to 78-ft. bgs. 4-inch Schedule 40 PVC 0.020-inch slotted screen placed from 48 to 78-ft. bgs
-65 -							$\begin{array}{c} \wedge & \wedge \\ & \wedge & \\ & \wedge & \wedge \\ & & \wedge & \wedge \\ & & & \wedge & \wedge$		drilling. Drill was stopped at 78' bgs and the boring was allowed to sit for approximately half an hour. When drill was reengaged
-70 -				0.0					water was present. End boring at 78'.
Env	vironm	ental Al	liance, I	nc.					Page 1 of 1

		La Da Da To Bo Be Ela Re	og of Bol ate Started: te Complet tal Depth (i ring Diame drock Dept evation (ft- mark:	ring: MV (ed: () ft): { eter (in): { h (ft): 2 nsl): 1 Permit	V-10 02/25/09 03/11/09 80.00 8 21 N/A ± # FR-95-1217	Project C Project N Drilled B Logged B Drill Rig: Drill Met Sampling	ode: 1 ame: M y: F y: N y: N S hod: A Method:	953 Monrovia BP (fo Eichelbergers Megan Brown Schramm T450 Air Hammer Ro Cuttings	rmer Green Valley Citgo) otary
Depth	Sample Number	Sample Interval	Recovery (inches)	PID/ FID	Lithological Description		Interpreted Lithology	Well Construction	Comments
-10 -10 -15 -10 -15 -20 -25 -30 -35 -30 -40 -45 -55 -60 -65 -70 -75				0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	MH: Clayey silt. SAPROLITE: Brown w fragments of phyllite. 11'-16' Micaceous. 16'-21' More fragments phyllite. BEDROCK: Phyllite, va shades of brown and n cuttings with small rock fragments. 32'-34' Shades of grey 40'-43' Soft zone. 47.5'-48' Soft zone. 54'-55' Green. 56'-60' Red; soft zone. 64'-70' Green/grey/bro 64' Evidence of water. 70' Saturated cuttings n high concentration of ra fragments (rock fragme include orange phyllite, trace amount of quartz 76-80' Green/brown.	ith s of arying nicaceous < (phyllite) wn. with a ock ants , blue and a).			Well Construction - Flushmount: Steel casing 0 to 10.5-ft. bgs. Cement placed from 0 to 32.5-ft. bgs. Bentonite placed from 32.5 to 38.5-ft. bgs Filter pack of #1 sand placed from 38.5 to 80-ft. bgs. 4-inch Schedule 40 PVC 0.020-inch slotted screen placed from 40 to 80ft. bgs Placed from 40 to 80ft. bgs Drill held at 55' bgs for approximately 10 minutes; when reengaged no evidence of water. Indication of water at 64' bgs; drill held for 10 minutes. When reengaged small amount of water present. Drill to 70' bgs to extend water column. End boring at 70'.
Env	ironm	ental Al	liance, I	nc.	L				Page 1 of 1

	Image: Second system Image: Second system Image: Second system Ima		og of Bo ate Started: ate Complet atal Depth (: oring Diame drock Dept evation (ft- mark:	ring: MW-11 02/25/09 red: 03/11/09 ft): 77.00 oter (in): 8 h (ft): 19.5 msl): N/A Permit # FR-95-1219		Project Code:1953Project Name:MonrovDrilled By:EichelbLogged By:MeganDrill Rig:SchramDrill Method:Air HanSampling Method:Cutting		953 Monrovia BP (for Eichelbergers Megan Brown Schramm T450 Air Hammer Ro Cuttings	rmer Green Valley Citgo) otary
Depth	Sample Number	Sample Interval	Recovery (inches)	PID/ FID	Lithological Description		Interpreted Lithology	Well Construction	Comments
-10 -15 -10 -15 -20 -25 -30 -35 -40 -45 -55 -60 -55 -60 -55 -60 -55				0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	SAPROLITE: Brown, weathered rock. 0-15' Fragments of ph quartz. 15'-16' Orange/brown 16'-18.5' Red/brown. BEDROCK: Phyllite, V shades of brown with fragments of phyllite th and quartz fragments 34'-35' Soft zone. 51'-59' Dark grey/brow grey/green; an increas rock fragments. 53'-59.5' Soft zone. 62'-63.5' Blue/grey with concentration of rock 68' Evidence of water 74'-77' Blue/grey.	micaceous ayllite and varying small hroughout to 44'. vn to se in small th larger high fragments.			Well Construction - Flushmount: Steel casing 0 to 10.5-ft. bgs. Cement placed from 0 to 38-ft. bgs. Bentonile placed from 38 to 45-ft. bgs Filter pack of #1 sand placed from 45 to 77-ft. bgs. 4-inch Schedule 40 PVC riser placed from 0 to 47-ft. bgs 4-inch Schedule 40 PVC 0.020-inch slotted screen placed from 47 to 77-ft. bgs Stop drill at 51' bgs for 10 minutes; when drill is reengaged no evidence of water. Continue drilling. Evidence of water at 68' bgs.
-75 -		ontol Al	liance	0.0					End boring at 77'.
Env	vironm	ental Al	lliance, l	nc.					Page 1 of 1

70	Date Started Date Comple Total Depth (Boring Diam Bedrock Dep Elevation (ft- Remark:	ted: 0 ft): 8 eter (in): 8 th (ft): 3 msl): N Permit	2/25/09 Project 3/12/09 Drilled 4.00 Logged Drill Ri Drill Ri 5 Drill Mi I/A Samplin # FR-95-1218 Project	Name: By: By: g: ethod: ng Method:	Monrovia BP (fo Eichelbergers Megan Brown Schramm T450 Air Hammer Re Cuttings	rmer Green Valley Citgo) Dtary
Depth Sample Number	Sample Interval Recovery (inches)	PID/ FID	Lithological Description	Interpreted Lithology	Well Construction	Comments
-5 -10 -15 -20 -25 -30 -35 -40 -45 -50 -55 -60 -65 -70		0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	ASPHALT SAPROLITE: Varying shades of brown, clayey, micaceous, crushed weathered rock, relict structures. 0.5'-10' Small fragments of phyllite and quartz. 15'-17' Orange. 21'-23.5' Orange. 26'-27' Red with an increase of small fragments of phyllite. 27'-29.5' Orange. 32'-35' Yellow tint. BEDROCK: Phyllite. 35'-37.5' Brown becoming more yellow at 37' with large rock (phyllite) fragments. 37.5'-84' Alternating between brown and blue/grey. 43'-44' Blue/grey with a high concentration of rock fragments. 51'-56' High concentration of rock fragments. 71'-78' Blue with larger rock fragments. 81'-84' Blue.			Well Construction - Flushmount: Steel casing 0 to 10.5-ft. bgs. Cement placed from 0 to 35-ft. bgs. Bentonite placed from 35 to 42-ft. bgs Filter pack of #1 sand placed from 42 to 82-ft. bgs. 4-inch Schedule 40 PVC riser placed from 0 to 44-ft. bgs 4-inch Schedule 40 PVC 0.020-inch slotted screen placed from 44 to 82-ft. bgs Stop drill at 78' bgs for 10 minutes; when drill is reengaged no evidence of water. Drill to 84' bgs. No clear water bearing zone observed.
-80 -	tal Allianza T	0.0				End boring at 84'.

	Log of Bon Date Started: Date Complet Total Depth (f Boring Diame Bedrock Dept Elevation (ft-r Remark:			ring: MV (ed: () ft): 8 ter (in): 8 h (ft): 2 nsl): 1 Permit	V-13)2/26/09)3/12/09 34.00 3 20 V/A ; # FR-95-1215	Project Code:1953Project Name:Monrovia BP (former Green Valley CirDrilled By:EichelbergersLogged By:Megan BrownDrill Rig:Schramm T450Drill Method:Air Hammer RotarySampling Method:Cuttings			rmer Green Valley Citgo) Dtary
Depth	Sample Number	Sample Interval	Recovery (inches)	PID/ FID	Lithological Description		Interpreted Lithology	Well Construction	Comments
-5 -10 -25 -25 -30 -25 -30 -40 -45 -55 -60 -65 -70 -75 -80				0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	ASPHALT SAPROLITE: Saproliti micaceous. 0.5'-11' Brown with lar fragments of phyllite a 11'-20' Orange into bro 20' Increase in rock fra 30-34' Shades of brov 20' Increase in rock fra 30-34' Highe concentra rock fragments. 34'-38' Grey/green wit concentration of rock i 38'-56' Shades of brov 56'-84' High concentra very small rock fragme 60.5'-76' Shades of gr 76' Evidence of water. 76'-84' Brown with blu	e, clayey, ge ind quartz. own at 15'. nicaceous wn. agments. ration of h a high fragments. wn. eits. ey. e tint.			Well Construction - Flushmount: Steel casing 0 to 10.5-ft. bgs. Cement placed from 0 to 41-ft. bgs. Bentonite placed from 41 to 47-ft. bgs Filter pack of #1 sand placed from 47 to 84-ft. bgs. 4-inch Schedule 40 PVC 0.020-inch slotted screen placed from 49 to 84-ft. bgs
Env	ironm	ental Al	liance, I	nc.			<u>^`</u> ^`		End boring at 84'. Page 1 of 1

Log of Bol Date Started: Date Complet Total Depth (1 Boring Diame Bedrock Dept Elevation (ff-r Remark:			bg of Boi te Started: te Complet tal Depth (i ring Diame drock Dept evation (ft-n mark:	ring: MW 0 red: 0 ft): 1 eter (in): 1 th (ft): 3 msl): N N/A	J-14S Project 7/20/10 Project 07/21/10 Drille 00.00 Logget 2"/8" Drill I 77' Drill I V/A Samp	et Code: et Name: d By: d By: Rig: Rig: Method: ling Method:	go e			
Depth	Sample Number	Sample Interval	Penetration Rate (Ft/Min)	믭	Lithological Description	Interpreted Lithology	Well Construction	Comments		
0 -5 -10 -15 -20 -25 -30 -25 -30 -35 -40 -45 -55 -60 -65 -70 -75 -80 -75 -80 -90 -95 -10				0.0	TOPSOIL: Grass/Top soil SAPROLITE: Varying color (brown, red-brown, orange- brown, tan), crushes to silt, some weathered phyllite, dry, micaceous, 35-36' soft BEDROCK: Phyllite varying browns 49-50' soft zone 52-55' orange-brown soft zone 60-63' orange-brown soft zone, water-bearing 70' more competent 75-90' olive-brown 90-100' competent, blue phyllite with some quartz			8" diameter steel casing set at 11-ft. bgs and grouted in place - Well Construction - Flushmount: - Sand placed from 0 to 10- ft. bgs. - Bentonite placed from 10 to 37.25-ft. bgs - 4-inch Schedule 40 PVC riser placed from 37.25 to 100-ft. bgs. - 4-inch Schedule 40 PVC 0.020-inch slotted screen placed from 40 to 100-ft. bgs PID did not function properly due to high humidity		
Env	Environmental Alliance, Inc. Page 1 of 1									

	4	LC Da Da To Bo Bet Elé Rei	bg of Boi te Started: te Complet tal Depth (f ring Diame drock Dept evation (ft-r mark:	ring: MW 0 ed: 0 ît): 2 ter (in): 1 h (ft): 5 nsl): N N/A	J-14DProject C9/24/09Project N9/24/09Drilled B73.00Logged B2"/8"Drill Rig:0Drill MetV/ASampling	Code: Name: Name: Sy: Sy: Chod: Sy: Sy: Sy: Sy: Sy: Sy: Sy: Sy: Sy: Sy	1953 Green Valley Cit Eichelbergers Megan Brown Schramm T450 Air Rotary Cuttings	go
Depth	Sample Number	Sample Interval	Recovery (inches)	Old	Lithological Description	Interpreted Lithology	Well Construction	Comments
-10 -15 -15 -20 -25 -30 -35 -40				0.0 0.0 0.0	UNKNOWN: Top Soil ML: Brown silt; very micaceous, with some weathered phyllite fragments SAPROLITE: Saprolite weathered phyllite with relict structures, 2.75-10.75' Brown, 10.75-23' Red/orange brown, 23-50' brown & orange-brown 48' soft zone			Air knifed & vacuum extracted soil to 3.25' bgs before refusal 10.5' of 8'' diameter; 3/8'' thick, steel casing set at 10.75' bgs & grouted in place
-45 -50						\land		
-55 -60 -65				0.0	BEDROCK: Phyllite, 50-51' grey, 51-74' Brown, orange, yellow/orange, 74-273' Competent bedrock; soft directly above, almost completely phyllite rock			
-70 -75 -80				0.0	free water is observed; blue- grey cuttings, small phyllite fragmetns with little quartz. 124' little brown phyllite fragments, 126' blue-grey.			
-85 -90 -95				0.0	150' amount of quartz fragments increase. 164-170' brown. 170-190' blue-grey, 190-203' purple-grey, 199' possible small fracture, 203'			
-100 -					phyllite large rock fragments. 239-257' blue-grey, decreased amount of orange			
-110					phyllite fragments; increase in amount of quartz. 257' cuttings become very fine	$\wedge \wedge \wedge \wedge$		
-115 -				0.0	grained, groundwater is very silty; blue-grey.			
-125 -				0.0				
-135								
-140				0.0				

	A	LC Da Da To Bo Be Ela Re	Dg of Bo te Started: te Complet tal Depth (f ring Diame drock Dept evation (ft-1 mark:	ring: MW 0 ed: 0 ft): 2 ter (in): 1 h (ft): 5 nsl): N N/A	/-14D 9/24/09 9/24/09 73.00 2"/8" 0 I//A	Project Code: Project Name: Drilled By: Logged By: Drill Rig: Drill Method: Sampling Method	1953 Green Valley (Eichelberger: Megan Brow Schramm T4 Air Rotary od: Cuttings	Citgo s n 50
Depth	Sample Number	Sample Interval	Recovery (inches)	OIA	Lithological Description	Interpreted Lithology	Well Constructio	Comments n
-145 -150 -155 -160 -165 -170 -175 -180 -175 -180 -195 -190 -195 -200 -205 -210 -215 -220 -215 -220 -225 -230				0.0 0.0 0.0				
-240 -245 -250 -255				0.0				
-260 -265 -270				0.0				

		Lo Da Da To Bo Be Ele Re	bg of Bo te Started: te Complet tal Depth (ring Diame drock Dept evation (ft- mark:	ring: MV ord: 0 ft): 2 eter (in): 1 th (ft): 5 msl): N N/A	V-14D Projec 9/24/09 Projec 9/24/09 Drillec 07/21/10 Drillec 273.00 Logge 2"/8" Drill F 50 Drill N V/A Sample	t Code: t Name: l By: d By: lig: lig: fethod: ing Method:	1953 Green Valley Cit, Eichelbergers Megan Brown Schramm T450 Air Rotary Cuttings	go
Depth	Sample Number	Sample Interval	Penetration Rate (Ft/Min)	멉	Lithological Description	Interpreted Lithology	Well Construction	Comments
0 -5 -10 -15 -20 -25 -30 -35 -40 -45 -50				0.0 0.0 0.0	UNKNOWN: Top Soil ML: Brown silt; very micaceous, with some weathered phyllite fragment SAPROLITE: Saprolite weathered phyllite with relic structures, 2.75-10.75' Brown, 10.75-23' Red/orange brown, 23-50' brown & orange-brown 48' soft zone	s t		Air knifed & vacuum extracted soil to 3.25' bgs before refusal 10.5' of 8" diameter; 3/8" thick, steel casing set at 10.75' bgs & grouted in place Well constructed in previous open borehole
-55 -60 -65 -70 -75 -80 -75 -80 -90 -95 -100 -105 -110 -115 -120 -125 -130		8		0.0 0.0 0.0 0.0	BEDROCK: Phyllite, 50-51' grey, 51-74' Brown, orange, yellow/orange, 74-273' Competent bedrock; soft directly above, almost completely phyllite rock fragments in cuttings. 83' free water is observed; blue grey cuttings, small phyllite fragments with little quartz. 124' little brown phyllite fragments, 126' blue-grey, 150' amount of quartz fragments increase. 164-17/ brown. 170-190' blue-grey, 190-203' purple-grey, 199' possible small fracture, 203' green mineral, 223' orange phyllite large rock fragments 239-257' blue-grey, decreased amount of orang phyllite fragments; increase in amount of quartz. 257' cuttings become very fine grained, groundwater is very silty; blue-grey.			- Well Construction - Flushmount: - Sand placed from 0 to 10- ft. bgs. - Bentonite placed from 10 to 196-ft. bgs - 4-inch Schedule 40 PVC riser placed from 0 to 201- ft. bgs - Filter pack of #2 sand placed from 196 to 224-ft. bgs. - 4-inch Schedule 40 PVC 0.020-inch slotted screen placed from 201 to 221-ft. bgs - Bentonite placed from 224 to 241-ft. bgs - Grout placed from 241 to 273-ft. bgs

Page 1 of 2

				Log of Be Date Started Date Compl Total Depth Boring Dian Bedrock De Elevation (fin Remark:	bring: MW l: 0 eted: 0 (ft): 2 neter (in): 1 pth (ft): 5 -msl): N/A	<i>I</i>-14D 9/24/09 7/21/10 73.00 2"/8" 0 J/A	Project C Project N Drilled B Logged E Drill Rig Drill Met Sampling	Code: Name: Y: By: : : thod: g Method:	1953 Green Valley Cit _i Eichelbergers Megan Brown Schramm T450 Air Rotary Cuttings	go
	Depth	Sample Number	Sample Interval	Penetration Rate (Ft/Min)	DIA	Lithological Description		Interpreted Lithology	Well Construction	Comments .
-14	0				0.0					
-14	5 -									
-15	0 -									
-15	5									
-16	0				0.0		R0	^^^/		
-16	5									6
-17	0 -				96			$\wedge \land \land \land$		
-17	5	×								
-18	0 -				0.0	×				
-18	5				0.0					5
-19										
-19								$\wedge \wedge \wedge'$		
-20	5				0.0			$\land \land \land$		
-21								$\wedge \land \land$	·	
-21	5 -									
-22	0 -	e.								
-22	5									
-23	0 -									
-23	5 -									
-24	0 1				0.0					
-24	5 -					22			210 P/0	
-25	0 -								P/0 P/0 P/ P/	3
-25	5 -					×				5. 15
-26	0 =				0.0	13			5000	
-26	5									
-27	0			5				A^_^		

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	4	La Da Da Ta Ba Ba El Re	og of Boi ate Started: ate Complet otal Depth (f oring Diame edrock Dept evation (ft-1 emark:	ring: MW 0 ed: 0 ît): 1 ter (in): 1 h (ft): 4 nsl): N N/A	V-15D Project (0) 19/28/09 Project N 19/28/09 Drilled B 32.00 Logged I 2"/8" Drill Rig 3' Drill Me V/A Sampling	Code: 1 Name: C By: F By: N :: S thod: A g Method: G	953 Green Valley Cit Eichelbergers Megan Brown Schramm T450 Air Rotary Cuttings	go WS		
Depth	Sample Number	Sample Interval	Recovery (inches)	DIA	Lithological Description	Interpreted Lithology	Well Construction	Comments		
0- -5-				0.0	ASPHALT ML: Brown, very micaceous silt; some weathered phyllite;dry			Air knifed & vacuum clear soil to 3' bgs before native material too hard to clear		
-10 – -15 –				0.0	brown, weathered phyllite; phyllitic structures; very micaceous. 2' medium to large rock fragments, 5' rock fragment size decreases		<u>Б.::Б</u> .:	10' of 8" diameter; 3/8" thick, steel casing set at		
-20 -				0.0				10.5' bgs & grouted in place		
-30 -										
-35 - -40 -				0.0						
-45 –					BEDROCK: Bedrock; grey phyllite. 43-50.5' tan & brown; medium rock fragments 50.5-57.5' orange-					
-50 -				0.0	brown; brown; yellow-brown silty cuttings with small rock fragments. 57.5-71' brown with larger rock fragments 61-61.5' red/orange-brown.					
-55 - -60 -					71-132' competent bedrock- slower drilling; grey with larger rock fragments. 75' very sily free water. 77' free water is more abundant but					
-65 -				0.0	silty. 83' free water becomes less silty. 85' no silt; little quartz. 83-88' slower drilling; 91' trace orange phyllite fragments					
Env	Environmental Alliance, Inc. Page 1 of 2									

	4	LC Da Da To Bo Bet Elé Rei	bg of Bo te Started: te Complet tal Depth (f ring Diame drock Dept evation (ft-1 mark:	ring: MW 0 ed: 0 ft): 1 ter (in): 1 h (ft): 4 nsl): N N/A	7-15D 9/28/09 9/28/09 32.00 2"/8" 3' I/A	Project C Project N Drilled By Logged B Drill Rig: Drill Met Sampling	ode: 1 ame: C y: F y: N S hod: A Method: 0	953 Green Valley Cit Eichelbergers Megan Brown Schramm T450 Air Rotary Cuttings	go WS
Depth	Sample Number	Sample Interval	Recovery (inches)	QIA	Lithological Description		Interpreted Lithology	Well Construction	Comments
-70 -									
-75 - -				0.0 0.0					
-80 - - - -									
-85 - - -				0.0					
-90 — - -									
-95 - - - -									
-100 - - - - -105 -				0.0					
-110 -									
- - -115 –									
- - -120 —									
-125 —									
- - -130 - -							$\overset{\wedge}{\overset{\wedge}{\overset{\wedge}{\overset{\wedge}{\overset{\wedge}{\overset{\wedge}{\overset{\wedge}{\overset{\wedge}$		

		Le Da Da To Bo Be Ele Re	og of Bon ate Started: ate Complet otal Depth (i oring Diame drock Dept evation (ft- mark:	ring: MW ed: 0 ft): 1 eter (in): 1 h (ft): 4 msl): N N/A	J-15D Project () 9/28-09 Project () 9/7/19/10 Drilled I 32.00 Logged () 2"/8" Drill Rig 3' Drill Me V/A Samplin	Code: Name: By: By: s: thod: g Method:	1953 Green Valley Cit; Eichelbergers Megan Brown Schramm T450 Air Rotary Cuttings	go WS
Depth	Sample Number	Sample Interval	Penetration Rate (Ft/Min)	입	Lithological Description	Interpreted Lithology	Well Construction	Comments
0- -5-				0.0	ASPHALT ML: Brown, very micaceous silt; some weathered phyllite;dry			Air knifed & vacuum clear soil to 3' bgs before native material too hard to clear
-10 -		17		0.0	SAPROLITE: Saprolite brown, weathered phyllite; phyllitic structures; very micaceous. 2' medium to			к ж
-15 - -20 -					fragment size decreases			10' of 8" diameter; 3/8" thick, steel casing set at 10.5' bgs & grouted in place
-25 -				0.0		$\left \begin{array}{c} \wedge \\ \wedge \\ \wedge \end{array} \right $		
-30 -				đ	4. 11	\land		
-35 -				0.0		$\left \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \right $		Well constructed in previous open borehole
-45 -			e.		BEDROCK: Bedrock; grey phyllite. 43-50.5' tan & brown; medium rock			- Well Construction - Flushmount: - Sand placed from 0 to 7-
-50 -	21	2	a.	0.0	brown; brown; yellow-brown silty cuttings with small rock fragments. 57.5-71' brown with larger rock fragments			ft. bgs. - Bentonite placed from 7 to 41-ft. bgs - 4-inch Schedule 40 PVC riser placed from 0 to 45.5-
-55					61-61.5' red/orange-brown. 71-132' competent bedrock- slower drilling; grey with larger rock fragments. 75' very silv free water. 77' free			ft. bgs - Filter pack of #2 sand placed from 41 to 133.5-ft. bgs. - 4-inch Schedule 40 PVC
-65 -				0.0	water is more abundant but silty. 83' free water becomes less silty. 85' no silt; little quartz. 83-88' slower drilling; 91' trace orange phyllite fragments			0.020-inch slotted screen placed from 45.5 to 133.5- ft. bgs

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		Lo Da Da To Bo Be Ele Re	bg of Boi te Started: te Complet tal Depth (f ring Diame drock Dept wation (ft-r mark:	ing: MW 0° ed: 0 it: 1 ter (in): 1 h (ft): 4 nsl): N/A	7-15D 9/28-09 7/19/10 32.00 2"/8" 3' 1/A	Project C Project N Drilled B Logged B Drill Rig: Drill Met Sampling	ode: ame: y: y: y: hod: Method:	1953 Green Valley Citg Eichelbergers Megan Brown Schramm T450V Air Rotary Cuttings	io WS
Depth	Sample Number	Sample Interval	Penetration Rate (Ft/Min)	DIA	Lithological Description	5	Interpreted Lithology	Well Construction	Comments
-70 -			e a	0.0 0.0	2	ä			
-85 -				0.0					
-90 -									
-95 -		17							
-100 -					3- 2				
-105 -	-	с ^о 8		0.0					10
-110 -		2				¢.			
-115 -									
-120 -									
-125 -		51							
-130 -			: :	N.					

1	A	L D D T B B B R R	-og of Bo Date Started: Date Complet Cotal Depth (1 Boring Diame Bedrock Dept Clevation (ft-1 Clevation (ft-1	ring: MW 0 ed: 0 ft): 1 ter (in): 1 h (ft): N nsl): N N/A	Image: Notes of the image is a state of the image is a	Code: 1 Name: 9 By: 1 g: 2 sthod: 2 g Method:	1953 Green Valley Cit Eichelbergers Megan Brown Schramm T450 Air Rotary Cuttings	go WS
Depth	Sample Number	Sample Interval	Recovery (inches)	Old	Lithological Description	Interpreted Lithology	Well Construction	Comments
-10 -15 -15 -20				0.0	ML: Brown, very micaceous silt with small phyllite rock fragments, dry SAPROLITE: Weathered phyllite, crushes to micaceous silt 2-31 dry 2-6 brown 6-8 dark brown 8-21 orange-brown			Air knifed & vacuum extracted soil to 4.5' bgs before refusal 9.57' of 8'' diameter; 3/8'' thick, steel casing set at 11.25' bgs & grouted in place
-20 -				0.0 0.0 0.0				
-30 -					BEDROCK: Bedrock-phyllite 31-34.5' grey, 34.5-35.5'			
-35 - -40 - -					35.5-51.5 brown; orange- brown & tan. 51.5-52.5' grey- brown 52.5-53 dark brown 53-57.5' brown & orange- brown, 54' first water			
-45 -				0.0	57.5-61 red/orange-brown 61-85' browns, tan; orange- brown, 68' soft zone; possible water bearing fracture			
-50 -				0.0				
-55 - -						$\begin{bmatrix} & & & \\ & & & \\ & & & \\ & & & & & \\ & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & & \\ $		
-60 -				0.0				
-65 -								

	4	La Da Da To Bo Be Ela Re	og of Bon te Started: te Complet tal Depth (f ring Diame drock Dept evation (ft- mark:	ring: MW 0 ed: 0 ft): 1 ter (in): 1 h (ft): N nsl): N N/A	/-16 9/21/09 9/21/09 20.00 2"/8" 1/A 1/A	Project Code:1953Project Name:Green Valley CitgoDrilled By:EichelbergersLogged By:Megan BrownDrill Rig:Schramm T450WSDrill Method:Air RotarySampling Method:Cuttings				
Depth	Sample Number	Sample Interval	Recovery (inches)	OId	Lithological Description		Interpreted Lithology	Well Construction	Comments	
-70 - -75 -										
-80-										
-85 - -				0.0	BEDROCK: Compet bedrock-harder drillir	ent ng; blue-				
-90 - - -					grey phyllte cuttings; quartz; free water sta silty; by 115' free wa cloudy by cuttings ha	ittle arts very ter is ave no	$\begin{array}{c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ \end{array}$			
-95 - - -				0.0	visible silt in them					
-100 - - -										
-105 - - -										
-110 - - -				0.0						
-115 - - -										
-120 -				0.0						

		La Da Da To Bo Be Ela Re	og of Boi ate Started: ate Complet otal Depth (i oring Diame drock Dept evation (ft-r mark:	ring: MW 0' ed: 0 ft): 1 ter (in): 1 h (ft): N nsl): N N/A	J-16 Project 9/21/09 Project 7/20/10 Drille 20.00 Logget 2"/8" Drill I I/A Drill I I/A Samp	Project Code:1953Project Name:Green Valley CitgoDrilled By:EichelbergersLogged By:Megan BrownDrill Rig:Schramm T450WSDrill Method:Air RotarySampling Method:Cuttings					
Depth	Sample Number	Sample Interval	Penetration Rate (Ft/Min)	QL	Lithological Description	Interpreted Lithology	Well Construction	Comments			
0- -5- -10- -15-				0.0	ML: Brown, very micaceous silt with small phyllite rock fragments, dry SAPROLITE: Weathered phyllite, crushes to micaceous silt 2-31 dry 2-6 brown 6-8 dark brown 8-21 orange-brown	5		Air knifed & vacuum extracted soil to 4.5' bgs before refusal			
-20 -		r.		0.0	÷			9.57' of 8" diameter; 3/8" thick, steel casing set at 11.25' bgs & grouted in place			
-30 -	r.			0.0 0.0	BEDROCK: Bedrock-phyllit			Well constructed in previous open borehole			
-35 -				2	51-34.5 grey, 54.5-35.5 brown-grey 35.5-51.5 brown; orange- brown & tan. 51.5-52.5' gre brown 52.5-53 dark brown 53-57 5' brown & orange-	y-					
-45 -				0.0	brown, 54' first water 57.5-61 red/orange-brown 61-85' browns, tan; orange- brown, 68' soft zone; possible water bearing fracture			- Well Construction - Flushmount: - Sand placed from 0 to 10- ft. bgs. - Bentonite placed from 10 to 35.5-ft. bgs - 4-inch Schedule 40 PVC			
-50 -				0.0				riser placed from 0 to 39-ft. bgs - Filter pack of #2 sand placed from 35.5 to 121-ft. bgs. - 4-inch Schedule 40 PVC 0.020-inch slotted screen placed from 39 to 121-ft.			
-60 -								bgs			

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		Le Da Da To Bo Be Ele Re	og of Bor the Started: the Complet that Depth (for the Diame drock Dept evation (ft- mark:	ring: MW 0 red: 0 ft): 1 ter (in): 1 h (ft): N nsl): N N/A	J-16 Project 9/21/09 Project 7/20/10 Drilled 20.00 Logged 2"/8" Drill Ri I/A Drill Ma X/A Samplin	Code: Name: By: By: g: ethod: ng Method:	1953 Green Valley Cit, Eichelbergers Megan Brown Schramm T450 Air Rotary Cuttings	go WS
Depth	Sample Number	Sample Interval	Penetration Rate (Ft/Min)	DIA	Lithological Description	Interpreted Lithology	Well Construction	Comments
-65 -		24	8 - 2	0.0	E.			2
-80 - -80 - - 85 -				0.0	BEDROCK: Competent bedrock-harder drilling; blue-			
-90 - - -95 -		a T			grey phylite cuttings; little quartz; free water starts very silty; by 115' free water is cloudy by cuttings have no visible silt in them			
-100 -				0.0	а. С			
-105 -		14						
-110 -				0.0				
-115 - - - -					· *			
-120 -				0.0				

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	4	L D D T B B E R	og of Boi ate Started: ate Complet otal Depth (f oring Diame edrock Dept levation (ft- emark:	ring: MW 0 eed: 0 ft): 1 eter (in): 1 th (ft): N nsl): N N/A	J-17 Pro 9/21/09 Pro 9/21/09 Dri 20.00 Log 2"/8" Dri J/A Dri	iject Code: iject Name: lled By: gged By: ll Rig: ll Method: npling Method:	go	
Depth	Sample Number	Sample Interval	Recovery (inches)	Old	Lithological Description	Interpreted Lithology	Well Construction	Comments
0- -5- -10- -15- -20- -25- -30- -35- -40-				0.0	ML: Brown, very micace silt with weathered phylli fragments SAPROLITE: Saprolite: micacous silty cuttings w phyllite rock fragments; orange-brown 22-23' red/orange-brown 24-26.5' red/orange-brown 29-31 red BEDROCK: Phyllite, 33- green/grey- brown 35-36' red 36-38' orange-brown 38-40' red 40-74' browns;orange- brown;tan 63 first water, very silty	ous te very vith n wn 35'		Air knifed & vacuum extracted soil to 4.5' bgs before refusal 10.5' of 8" diameter; 3/8" thick, steel casing set at 11' bgs & grouted in place
-45 - 					74-120' competent bedro phyllite rock fragments; groundwater is less silty, blue-grey	ock,		
-55 - -60 -								
-65 -								

	4	LC Da Da To Bo Be Elc Res	og of Bor te Started: te Complet tal Depth (f ring Diame drock Dept evation (ft- mark:	ring: MW 0 ed: 0 ft): 1 tter (in): 1 h (ft): N nsl): N N/A	7-17 9/21/09 9/21/09 20.00 2"/8" 1/A 1/A	Project Code: Project Name: Drilled By: Logged By: Drill Rig: Drill Method: Sampling Method:	go)	
Depth	Sample Number	Sample Interval	Recovery (inches)	OId	Lithological Description	Interpreted Lithology	Well Construction	Comments
-70 -								
-75 - -								
-80 								
-85 -							<u>^</u>	
-90								
-95 -								
-100 -								
-105 –								
-110 -								
-115 -								
-120 -								

		Lo Da Da To Bo Be Ele Re	bg of Boi te Started: te Complet tal Depth (i ring Diame drock Dept evation (ft-i mark:	ring: MV ed: (ft): 1 ter (in): 1 h (ft): 1 nsl): 1 N/A	V-17 Project () 09/21/09 Project () 07/20/10 Drilled () 120.00 Logged () 12"/8" Drill () V/A Drill () V/A Sampling	Code: 1 Name: C By: F By: N : S thod: A g Method:	ode: 1953 ame: Green Valley Citgo y: Eichelbergers y: Megan Brown Schramm T450 hod: Air Rotary ; Method: Cuttings			
Depth	Sample Number	Sample Interval	Penetration Rate (Ft/Min)	DIA	Lithological Description	Interpreted Lithology	Well Construction	Comments		
-10 -15 -10 -15 -20 -25 -30 -40 -45 -55 -60 -55 -60 -75 -80 -90 -105 -105 -105 -105				0.0	ML: Brown, very micaceous silt with weathered phyllite fragments SAPROLITE: Saprolite: very micacous silty cuttings with phyllite rock fragments; orange-brown 22-23' red/orange-brown 24-26.5' red/orange-brown 29-31 red BEDROCK: Phyllite, 33-35' green/grey- brown 35-36' red 36-38' orange-brown 38-40' red 40-74' browns;orange- brown;tan 63 first water, very silty 74-120' competent bedrock, phyllite rock fragments; groundwater is less silty, blue-grey			Air knifed & vacuum extracted soil to 4.5' bgs before refusal 10.5' of 8" diameter; 3/8" thick, steel casing set at 11' bgs & grouted in place Well constructed in previous open borehole - Well Construction - Flushmount: - Sand placed from 0 to 10- ft. bgs. - Bentonite placed from 10 to 35-ft. bgs - 4-inch Schedule 40 PVC riser placed from 0 to 41-ft. bgs - Filter pack of #2 sand placed from 35 to 121-ft. bgs. - 4-inch Schedule 40 PVC 0.020-inch slotted screen placed from 41 to 121-ft. bgs		
-120 -		×,		01-01-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0						
Env	ironm	ental Al	liance, I	nc.				Page 1 of 1		



INJECTION POINT IW-1 GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

2142 Priest Bridge Ct. - Suite 1, Crofton, MD (800) 220-3606

Client: Carrol Fu	lei			Depth	to Water	Site Elevation Datum			
Well: IW-1	Addrood			(ft. from m	easuring pt.)	Ground Elevation			
Monrovia BP	11791 F	ingerboard Rd.	. Monvoria. MD	Date		Lat N39 ⁰ 20 611			
Drilling Company	y: Method:		,,	-	not measured	Long. W77 ^o 15.245			
BL Myers	Air Rota	ary - 6" down-ho	ole hammer	-	for either zone	Top of Casing			
Date Started:		Date Con	npleted:		тос	Shallow = Not determined			
Boring Depth:			11/10/10	Permit #	100	Deep - Not determined			
73.5' (Nested 3/	4" Injectio	on Points termin	nating at 66.5' &	73.5')					
	DEPTH (ft. balaw)	DEED	Decover	SAMPLES	DID				
SHALLOW	(II. below grade)	DEEF	(inches)	Count	(ppm)	SOIL DESCRIPTION			
	0								
55		22	NA	not taken		$\frac{0-1}{2}$			
	5				2.1	Orange brown SILT w/ rock frags			
						<u>2' -42'</u> Orange, brown cuttings			
	10				0				
	15				2.2				
	20				9.7				
	25								
					7.1				
	30				8.9				
					10.6				
	35				11.9				
	40				7.3				
					1.0	42' -50' Orange, brown, grey cuttings			
					5.2				
	45				8.5				
	50				1.7	50' -60' Brown, green, grev cuttings			
						<u> </u>			
	55				6.2				
					-				
	60				3	60' -70' Grev, brown cuttings			
						Ŭ			
KIIII KIIII		111112 VIIIII							
	65				2				
[
	70				0.9	70' -73.5 Grey, brown green cuttings			
					1.1				
					<u> </u>				
NOTE : PID values Rig: Schramm T45	s are preser 50 with 6" he	nted were bagged s ammer	creened, collected	as cutting grab	samples	Legend			
						Cement			
Shallow Zone S	Specificati	ons:	- 1 (man 00 (1 -))	07 (h					
vveii screen: ¾ i Riser: ¾ inch sta	ncn stainle	ess steel screene	a trom 63 tbg to (o 63 fba	pai 1a		3/4" SS Injection Point Riser			
Sand: 60 fbg to	67 fbg		9			Bentonite Seal			
Bentonite: 55.5 f	bg to 60 f	bg							
Grout: surface t	o 55.5 fbg	s:				::::::::::::::::::::::::::::::::::::::			
Well screen: 34 i	nch stainle	ss steel screene	d from 69 fbg to 3	73 fbg		.020 Slot 3/4" SS Injection Screen			
Riser: ¾ inch sta	ainless stee	el from surface t	o 69 fbg	-					
Sand: 68.5 fbg t	o 73.5 fbg	ha (intermediate	e sealing zone)			Native Soil			
Grout: 66.5 fbg f	to 67 fbg (intermediate se	aling zone)			GES			

INJECTION POINT IW-2 GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

2142 Priest Bridge Ct. - Suite 1, Crofton, MD (800) 220-3606

Client: Carrol F	uel			Depth	to Water	Site Elevation Datum			
Well: IW-2				(ft. from m	easuring pt.)		Ground Elevation		
Site Name:	Address	S: Singerboard B-	Monvoria MD	Date	DTW		NA Lat Nac ⁰ ao coo		
Drilling Compar	nv: Method			_	not measured		Long. W77 ⁰ 15.241		
BL Myers	Air Rot	ary - 6" down-h	ole hammer	-	for either zone		Top of Casing		
Date Started:		Date Cor	npleted:				Shallow = Not determined		
11/18/10 Boring Depth:			11/19/10	Permit #	TOC		Deep = Not determined		
103.5' (Nested	3/4" Inject	tion Points term	inating at 91' & 1	103')					
	DEPTH			SAMPLES					
SHALLOW	(ft. below	DEEP	Recover.	Blow	PID (ppm)		SOIL DESCRIPTION		
	0		(increa)	Oddin	(ppin)				
		_	NA	not taken		0 - 1'	Asphalt, fill, gravel		
	8					1'-3	WEATHERED ROCK Orange brown SILT w/ rock frags		
	- · -						g-		
	L _				0.1	<u>3' -10'</u>	Orange, brown, grey cuttings		
	16				0				
	- '' -				Ū				
	L _				0.1				
	24				0				
	_ 24 _				0				
					0.5	10' -30'	Orange, brown cuttings		
	_ 32 _				22				
					2.2				
					5.7	30' -40'	Orange, brown, grey cuttings		
	_ 40 _				4.4		(Driller notes "bedrock" encounted @ 30'-32')		
					4.1	40' -46'	Orange, brown cuttings		
	48				15.1	47'	Brown, grey green cuttings		
						47' -55'	Orange, brown, grey cuttings		
	56				10.5				
					4				
	64				7.5				
	72				0.5				
						55' -75'	Brown, grey, green cuttings		
	L –				0.1				
	80				0.1				
					0.1				
	88				0.1				
	_ ** _				0				
						75' -90'	Grey, brown cuttings		
	96				0		(Driller notes that rock "hardens")		
	-								
	┣ ─				0.1	90' -100	Grey cuttings		
	102						, ,		
	L _								
	110								
	F -								
	<u> </u>								
	115								
NOTE : PID value	es are preser	nted were bagged :	screened, collected	as cutting grab :	samples				
Rig: Schramm T4	50 with 6" ha	ammer					Legend		
Challaw Zana	Cussifiest						Ormant		
Well screen: 34	inch stainle	ess steel screene	d from 87 fba to 9	91 fba			Cement		
Riser: ¾ inch st	ainless ste	el from surface t	o 87 fbg	5			3/4" SS Injection Point Riser		
Sand: 86 fbg to	91 fbg	-				-	Denter its Cool		
Grout: surface	y to 86 fb(to 83 fha	9				<u>v///////</u> /////////////////////////////	Bentohite Seal		
Deep Zone Spe	ecification	<u>s:</u>					#2 Morie Sand		
Well screen: 3/4	inch stainle	ess steel screene	ed from 99 fbg to	103 fbg			a		
Riser: ¾ inch st	ainless ste	el from surface t	o 99 fbg				.020 Slot 3/4" SS Injection Screen		
Bentonite: 96 fb	g to 98 fb	g (intermediate	sealing zone)				Native Soil		
Grout: 95.5 fbg	to 96 fbg	(intermediate se	ealing zone)						
Cave-In Slough	:91 fbg to	95.5 fbg (harde	ned)				Slough (cave-in native soil)		

INJECTION POINT IW-3 GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

2142 Priest Bridge Ct. - Suite 1, Crofton, MD (800) 220-3606

	Second				_		Site Elevation Datum			
Client: Carrol F	uel				Depth	to Water		Site Elevation Datum		
vvell: IW-3					(tt. from m	easuring pt.)		Ground Elevation		
Site Name:	Address	S:			Date	DTW		NA		
Monrovia BP	11791	ingerboar	d Rd., Monv	oria, MD				Lat. N39 ² 20.609		
Drilling Compai	ny: Method				-	not measured		Long. W77~15.238		
BLINIYERS	AIF ROT	ary - 6° do	wn-nole nan	hmer	-	for either zone		I op of Casing		
Date Started:		Date		•		TOO		Shallow = Not determined		
Dering Denthu			11/19/1	0	Dormit #	100		Deep = Not determined		
Boring Depth:	/4" Inicatio	n Dainta ta		407 0 4						
134 (Nested 3)		on Points te	erminating a		34)					
SHALLOW	(ft below	DEEP	Re	cover	Blow	PID				
OTIVILLOW	grade)	DELI	(in	ches)	Count	(mag)				
	0		,	/						
				NA	not taken		0 - 1'	Asphalt, fill, gravel		
						0.9	1' -4' 8"	WEATHERED ROCK		
	10					1.8		Orange brown SILT w/ rock frags		
						0.3	4' 8' -10'	Orange, brown, grey cuttings		
	20					0.4				
	L _					0.2				
	30					0.2				
	L _					0.2	10' -30'	Orange, brown cuttings		
	40					0.6				
	L _					1.3				
							30' -40'	Orange, brown, grey cuttings		
	_ 50 _					2.5		(Driller notes "bedrock" encounted @ 30'-32')		
						10.7	401 401	Oran and harring an utilizers		
						10.7	40' -46'	Orange, brown cuttings		
	60					6.6	47			
	_ 00 _					0.0	47	Brown, grey green cullings		
						15				
						1.5	17' -55'	Orange brown grov cuttings		
	70					12	47 -55	Orange, brown, grey cuttings		
	- '' -					4.2				
						0.4				
						0.4				
	80					0.6				
	- ** -					0.0				
						0.1				
						••••				
	90					0.1				
							55' -75'	Brown, grey, green cuttings		
						0.3				
	100					0.3				
	L _					0.3				
	_ 110 _					0.4				
	⊢ –					0.3	75' 00'	Grov brown cuttings		
	100					0.2	10 -90	(Driller notes that rock "hardens")		
KUUA VUUA	<u>⊢ '∠∪</u> –	VIIIA VI				0.5		(Driner Holes that HOLK Haruells)		
₽ <i>~~~</i> H~~~	125					0.4				
	⊢					<u></u>	90' -100	Grev cuttings		
••••••	L _		and the					,		
¥1111111111111	130	YIIIIA YI								
L	┢ –									
	135		***							

NOTE · PID value	es are preser	nted were ba	nged screened	collected	as cutting grab	samples		Legend		
Rig: Schramm T4	50 with 6" h	ammer	ggeu sereenee	, concolcu	as calling grap i	bampies		Slough (cave-in native soil)		
								elough (ouro in haire con)		
Shallow Zone	Specificati	ions:						Cement		
Well screen: 3/4	inch stainle	ess steel sci	reened from	123 fbg to	127 fbg			-		
Riser: ¾ inch st	tainless ste	el from surf	ace to 123 f	bg				3/4" SS Injection Point Riser		
Sand: 122 fbg	to 127 fbg			-						
Bentonite: 117	fbg to 122	fbg						Bentonite Seal		
Grout: surface	to 117 fbg							=		
Deep Zone Sp	ecification	<u>s:</u>						#2 Morie Sand		
Well screen: 3/4	inch stainle	ess steel sci	reened from	130 fbg to	134 fbg					
Riser: ¾ inch st	tainless ste	el from surf	ace to 130 f	bg				.020 Slot 3/4" SS Injection Screen		
Sand: 129.5 fb;	g to 134.5 f	fbg								
Bentonite: 127	fbg to 129	fbg (interm	ediate seali	ng zone)				Native Soil		
Grout: None us	sed in inter	mediate se	aling zone							

C

Groundwater & Environmental Services, Inc.

Some = 20-30%

And = >40%

Adjective = 30-40%

ID NO.VE-1

10-30 = Medium

30-50 = Dense

>50 = Very Dense

VE-1

p. 1 of 1

8-15 = Stiff

>30 = Hard

15-30 = Very Stiff

Projec	et: Moni	rovia l	BP/I	Fmr G	reen Va	Regulatory Case #: 2005-0834-FR								
Addre	ess: 117	91 Fin	nger	board	Rd,Mor	nrovia,N	MES Job	#: 0402	632	Regulator	ry Case I	Mgr: J	im Richmond	
Count	y: Fred	erick,	M)			GES Pro	ject Mg	r:Gregory Reichart	Permit #:				
Logged	By: Pete	e Reicha	ardt				Date Drille	ed: 11-18	8-2010 11 18 2010	Split Spoon/Acetate Sleeve Diameter:				
Drilling Drill O	g Company	y: BL M Paul Fil	viyer kes				Drilling M	on Date: lethod: D a	11-18-2010 wn-hole Air Hammer	Soil Classifica	cetate Slee	m Bu	gin: NA rmister	
Drill Ri	ig Type: S	chram	m T4	50			Sampling	Method:	Cuttings	Field Screenin	ig: PID 10	.9 eV La	amp (ppm)	
Borehole Details:Well CompletiBorehole Diameter:6''Riser Length:Total Boring Depth:28 fbg.Well Diameter:Initial Depth to Water:Not encounteredScreen LengthLongitude:Screen Slot SizLattitude:Total Depth:							ion #1: 8 ft : 4 in. 20 ft. ae: 0.20 NA		Well Completion #2: Riser Length: 8 ft. Well Diameter: 4 in. Screen Length: 20 ft Screen Slot Size: Slot #20 Total Depth: 28 fbg	Completion Details: Grout Seal: NA Type of Seal: Bentonite Chips Sand Type: #2 Sand, etc. Well Material Type: Schedule 40 PVC				
Depth	Sample	Recov	very	Field	Screen	Blow	Counts		Geologic Description		Comm	ents	Well Completion	<u>1:</u>
	Interval			(pr	om)		1 50							
(feet)	(feet)	(inche	es)		0 1		<u> </u>							
0-							\wedge	· ·	Asphalt: Asphalt	/	12 in. Fl	ush-		
-									SILT: Orange-brown S with weathered rock fr (Schist-phyllite)	GILT matrix agments	mount Manway 2ft. x 2ft Concrete Pad	r in e		
5 - -	5	NA		0.5	1				PHYLLIC: Red, orang cuttings	e and brown	0-4 fbg (0-8 fbg \$ PVC Ris 4-8 fbg	Grout Solid ser		
- 10 — -	10	NA		0.4			50 26 1 No Da				Bentonit Seal	e		
15 — -	15	NA		0.2			ata Collected				6-28 fbg Filter Sa	nd		
- 20 - -	20	NA		0.6	0.1		50 26				8-28 fbg 0.020 in PVC We Screen	Slot II		
25 – -	25	NA		0.3			↓				Threade End Car	d		
Propor	tions Used	<u>l:</u>	1	Notes:			1 .		Blow Count Pent	ration Resistanc	<u>e:</u>	Symbo	ols:	
Trac	e = <5%	,	NA =	= not ava inches:	illable; fb ft.= feet	g. = feet t ppm = p_{1}	below grade	lion	$\frac{\text{Consistency (M\&C)}}{<2 = \text{Verv Soft}}$	Density (Density (G&S) Apparent Water Level			
Littl	w = 5 - 10% le = 10 - 20	6)%	Soil	Litholog	ies based o	on field of	oservations of	only.	2-4 = Soft 4-8 = Medium	$\begin{array}{c c} 0-4 = \text{Very Loose} \\ 4-10 = \text{Loose} \end{array}$ Lab Sample Location			ample Location	



APPENDIX D

State of Maryland Well Completion Reports
C 1	5 (N	SEQUENC	e no. Onl.y)		THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 (THIS NUMBER IS TO BE IN COLS, 3-6 ON ALL CA	6 E PUNCHED ARDS))		FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY NUMBER
ST/CO USE ONLY DATE Received	DA	TE WEL		ETED Depth of Well	PERMIT NO. FROM "PERMIT TO DRILL WELL"
MM DD YY	-	<u> </u>	<u>°</u>	$22 \xrightarrow{133} 26$	FR-95-1670
OWNER Timber	, Crest	- Lto	L Per	+ Concell Freels	
STREET OR RFD_	last narr	1179	I Fur	igerboard Rame TOWN_	Monrovia
					LOT
Not required	for driven	wells		WELL HAS BEEN GROUTED	
STATE THE KIND OF FOR COLOR, DEPTH, THICKN	MATIONS PEI ESS AND IF V	NETRATED	THEIR	TYPE OF GROUTING MATERIAL (Circle one)	
DESCRIPTION (Use additional sheets if needed)	FROM	EET TO	check if water bearing	CEMENT (CM) BENTONITE CLAY BC	
Roma Sill			×	NO. OF BAGS 2 2 NO. OF POUNDS 2 D 6 3 GALLONS OF WATER 3 2	PUMPING RATE (gal. per min.)
overbuilt	0	20		DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE
		52		from $\frac{122}{48}$ TOP $\frac{52}{54}$ ft. to $\frac{122}{54}$ BOTTOM $\frac{58}{54}$ ft.	WATER LEVEL (distance from land surface)
orey Rock	32	133		casing CASING RECORD	BEFORE PUMPINGft.
				types insert ST CO	WHEN PUMPING ft.
				code PL OT	22 25
Two wells				PLASTIC OTHER	A air P piston T turbine
completel in				CASING top (main) casing of main casing	
the some			-	ST 1 129	27 Centrifugal K rotary U (describe below)
boschole				<u>60 61 63 64 66 70</u>	jet S submersible
		ŀ		A diameter depth (feet)	
					PUMP INSTALLED DRILLER INSTALLED PUMP YES (NO)
				s 1 2 2	(CIRCLE) (YES or NO)
				SCREEN BECORD	MUST BE COMPLETED FOR ALL WELLS.
				or open hole ST BR HO	PLACE (A,C,J,P,R,S,T,O) 29 IN BOX 29.
				appropriate STEEL BRASS OPEN BRONZE HOLE	
				below PL OT	(to nearest gallon) 31 35
					PUMP HORSE POWER
NUMBER OF UNSUCCES	SFUL WEL	LS:	0		PUMP COLUMN LENGTH (nearest ft.)
WELL HYDROFRACTURE	Ð	yes Y	N	$\begin{bmatrix} 1 & 5 \\ 3 & 9 \end{bmatrix} \xrightarrow{1} 1 \xrightarrow{1} 29 \\ 15 & 17 \end{bmatrix} \xrightarrow{1} 3 \xrightarrow{21}$	CASING HEIGHT (circle appropriate box and enter casing height)
CIRCLE APPR	OPRIATE L			$\frac{1}{1}\frac{2}{23}\frac{5}{24}\frac{1}{26}\frac{1}{30}\frac{1}{32}\frac{1}{32}\frac{1}{36}$	49 LAND SURFACE
A WELL WAS ABAND WHEN THIS WELL W	ONED AND	SEALED TED		s C 3	below (nearest)
D TEST WELL CONVER	NNED TED TO PRO	DUCTION		R 38 39 41 45 47 51 E	
WELL HEREBY CERTIFY THAT THIS	WELL HAS BE	EN CONSTR	UCTED IN	E SLOT SIZE 1 <u>0 1 0</u> 2 3	A SHOW PERMANENT STRUCTURE SUCH AS
ACCORDANCE WITH COMAR 20 IN CONFORMANCE WITH ALL C CAPTIONED PERMIT, AND THA VEREIN IS ACCURATE AND THA	ONDITIONS S	TATED IN TI	LE ABOVE	OF SCREEN INCH)	LANDMARKS AND INDICATE NOT LESS
KNOWLEDGE.		INE BES		from to	(MEASUREMENTS TO WELL)
DRILLERS LIC. NO. I	MUD	42	+	GRAVEL PACK	Fingerboard Rd Ja
DRULLERS SIGNATORE	1			WAS FLOWING WELL 122 68 127	· · · · · · · · · · · · · · · · · · ·
(MUST MATCH'SIGNATURE		ATION)	_	MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)	100~5 X
LIC. NO. I	U		- '	ı (E.R.O.S.) W.Q	A
SITE SUPERVISOR (sign	. of driller o	r journeyn	nan	70 72 74 75 76	Shopping lenter
responsible for sitework if	different fro	m permitte	ee)	CASING INDICATOR OTHER DATA	

DENV-CR00



C 1	SEQUEN (MDE USE	ce no. Only)		THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 6 (THIS NUMBER IS TO BE PUN IN COLS. 3-6 ON ALL CARDS)	CHED)		FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY NUMBER
ST/CO USE ONLY DATE Received	DATE WEL		ETED Depth of Well	PERMIT NO. FROM "PERMIT TO DRILL WELL"
MM DD YY 8 13		19 1	22 7 3 26 (TO NEAREST FOOT)	FR-95-1672
OWNER Timber	Crest	L	to Partnership Curr	II Rel
STREET OR RFD	last name	21 F	ingenboard Red First name TOWN	Monteoria
SUBDIVISION				LOT
Not required for d	riven wells			
STATE THE KIND OF FORMATION COLOR, DEPTH, THICKNESS AN	NS PENETRATED	, THEIR ARING	(Circle Appropriate Box) 44 44 TYPE OF GBOUTING MATERIAL (Circle one)	PUMPING TEST
	FEET	check if water		HOURS PUMPED (nearest hour)
	FROM TO	bearing		PUMPING RATE (gal. per min.)
Blow Silly			GALLONS OF WATER <u>(C)</u>	METHOD USED TO MEASUBE PUMPING RATE, NO TELT.
ourburden	0 32		from $\frac{1}{42}$ $\frac{1}{200}$ $\frac{1}{50}$ ft. to $\frac{1}{54}$ $\frac{1}{50}$ ft.	WATER EVEL (distance from land surface)
			(enter 0 if from surface)	
Ung Reak	32 73			
			(insert appropriate) STEEL CONCRETE	WHEN PUMPINGft.
Two vells				TYPE OF PUMP USED (for test)
completed in			PLASTIC OTHER MAIN Nominal diameter Total depth	A air P piston T turbine
the sime			CASING top (main) casing of main casing TYPE (nearest inch)! (nearest foot)	27 27 27 other (describe)
borchale			ST 1 69	27 Eritingal (country (country below)
			60 61 63 64 66 70	jet S submersible
-			A diameter depth (feet)	2/
			S I	(CIRCLE) (YES or NO)
				IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
			screen type SCREEN RECORD	TYPE OF PUMP INSTALLED
			insert STEEL BRASS OPEN	IN BOX 29
			(appropriate code) BRONZE HOLE	
			below PLASTIC OTHER	(to nearest gallon) 31 35
			C 2 DEPTH (nearest ft.)	
NUMBER OF UNSUCCESSFUL	WELLS:	0		(nearest ft.) $\frac{43}{47}$
WELL HYDROFRACTURED	yes Y	ดี	$E_{A} = \frac{3}{8} \frac{3}{9} \frac{1}{11} \frac{15}{15} \frac{1}{17} \frac{21}{21}$	CASING HEIGHT (circle appropriate box and enter casing height)
CIRCLE APPROPRIA			$^{\rm C}_{\rm H^2} = \frac{5t}{23} \frac{62}{24} \frac{62}{26} \frac{62}{29} \frac{66}{22} \frac{66}{29}$	49 LAND SURFACE
A WELL WAS ABANDONED WHEN THIS WELL WAS CO	AND SEALED		S S C 3	_ below (nearest)
E ELECTRIC LOG OBTAINED		J	R 38 39 41 45 47 51	49 / <u></u>
WELL			E SLOT SIZE 1 010 2 3	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCHAS
ACCORDANCE WITH COMAR 26.04.04 " IN CONFORMANCE WITH ALL CONDITI CARTIONED PERMIT AND THAT THE	WELL CONSTRUCTIONS STATED IN	TION" AND	DIAMETER (NEAREST OF SCREEN INCH)	BUILDING, SEPTIC TANKS, AND /OR
HEREIN IS ACCURATE AND COMPLI KNOWLEDGE.	ETE TO THE BE	ST OF MY	56 60 from to	THAN TWO DISTANCES
DRILLERS LIC. NO. 1 M	UD 42	- (I	GS 73	" Fingerhoud Rd 50
RA-R	7		IF WELL DAILLED	
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON A	APPLICATION)		MDE USE ONLY	×
LIC. NO. 1	_ D	_ •	(NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	
			70 72	
SITE SUPERVISOR (sign. of dr responsible for sitework if different	riller or journey	nan ree)	TELESCOPE LOG 74 75 76	Shopping lenter
	en nom pennit		CASING INDICATOR OTHER DATA	

DENV-CR00



C 1	SE (MD	QUENCE DE USE (E NO. DNLY)		THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 6 (THIS NUMBER IS TO BE PU IN COLS, 3-6 ON ALL CARD				FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY NUMBER
ST/CO USE ONLY DATE Received	DATI			ETED Depth of Well	PERMIT NO. FROM "PERMIT TO DRILL WELL"
8 13	15	Ц	9	$\begin{array}{c} 20 \\ \hline \\ 20 \\ \hline \\ $	<u>F12 75 16 74</u> 28 29 30 31 32 33 34 35 36 37
OWNER Timber	last name	<u>+ []</u>	- <u>d</u>	Part Corroll Fuels	Mederaul
SUBDIVISION				SECTION	LOT
WELL Not required for	LOG r driven we	ells		GROUTING RECORD	
STATE THE KIND OF FORMAT COLOR, DEPTH, THICKNESS	IONS PENE	TRATED,	THEIR RING		HOURS PUMPED (nearest hour) Monate
DESCRIPTION (Use additional sheets if needed)	FEI	ET TO	if water bearing	NO. OF BAGS	8 9 ' PUMPING RATE (gal. per min.) سخب ((•
Brown sith				GALLONS OF WATER 15	METHOD USED TO
Overboy din	C	32		from $\frac{O}{48}$ TOP 52 ft. to $\frac{V}{54}$ BOTTOM 58 ft.	WATER LEVEL (distance from land surface)
Grey Rock	32	130		43 (enter 0 if from surface) 120 CASING RECORD	BEFORE PUMPING
				types insert ST CO	WHEN PUMPING ft.
				code below PL OT	22 25 TYPE OF PUMP USED (for test)
Two wells				MÁIN Nominal diameter Total depth	A air P piston T turbine
completed in				CASING top (main) casing or main casing TYPE (nearest inch)! (nearest foot)	C centrifugal R rotary O dter (describe below)
the some				$\frac{120}{60 \ 61} \frac{2}{63 \ 64} \frac{120}{66} \frac{70}{70}$	J jet S submersible
borehole				E OTHER CASING (if used) A diameter depth (feet) inch from to	27 27
					PUMP INSTALLED DRILLER INSTALLED PUMP YES (R)
				Ĭ Ŋ G []	(CIHCLE) (YES or NO)
				screen type SCREEN RECORD	TYPE OF PUMP INSTALLED
				insert STEEL BRASS OPEN	
				(code below) BRONZE HOLE (O T	GALLONS PER MINUTE (to nearest gallon) 31 35
,					PUMP HORSE POWER
NUMBER OF UNSUCCESSF	UL WELLS	3:	0		PUMP COLUMN LENGTH (nearest ft.)
WELL HYDROFRACTURED	د آ	Y	Ĝ	$E \frac{1}{8} \frac{1}{9} \frac{1}{11} \frac{1}{15} \frac{1}{17} \frac{1}{21} \frac{3}{21}$	CASING HEIGHT (circle appropriate box and enter casing height)
CIRCLE APPROP	RIATE LET			$ \begin{array}{c} & & \\ H \\ \hline 23 \\ S \\ \end{array} \begin{array}{c} 23 \\ 24 \\ 26 \\ 26 \\ 30 \\ 32 \\ 30 \\ 32 \\ 36 \\ 32 \\ 36 \\ 36 \\ 36 \\ 36 \\ 36$	
E ELECTRIC LOG OBTAINE		ED		C 3 R 38 39 41 45 47 51	(1-49) below $(1-64)$ below $(1-64)$ below $(1-64)$ foot)
P TEST WELL CONVENTEL WELL	L HAS BEEN		JCTED IN	N SLOT SIZE 1 0202 3	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS
ACCORDANCE WITH COMAR 26.04.0 IN CONFORMANCE WITH ALL CONU CAPTIONED PERMIT, AND THAT T HEREIN IS ACCURATE AND COM	04 "WELL CO DITIONS STA THE INFORM	ATION PRI	ON" AND E ABOVE ESENTED	DIAMETER OF SCREEN <u>2</u> (NEAREST 56 60 INCH)	BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
KNOWLEDGE.				from to 130	(MEASUREMENTS TO WELL)
DRILLERS LIC. NO. 1 M	. D- کر ۱۱ ار گر	<u> </u>	I	GRAVEL PACK	Fingerbound Rd
DRILLERS SIGNATURE (MUST MATCH SIGNATURE OF	N APPLICAT	rion)			mar 18 N
LIC. NO. i	D .		- '	T (E.R.O.S.) W Q	X
SITE SUPERVISOR (sign. of	driller or i	journeym	an	70 72 74 75 76	Stroppin Center
responsible for sitework if diff	ferent from	permitte	e)	TELESCOPE LOG CASING INDICATOR OTHER DATA	



APPENDIX E

Non-Hazardous Waste Manifests

						Monitor	Document #•		
SHIPPI	NGT	DOCI	IMF	NT		mannesi	Document #.	18440	<u>ר</u>
Canarator: C						`	Document #: _	<u> </u>	
US FPA ID#	<u>toil Inde</u> (A	<u>pendent i</u>	tuel Com	pany (CIFC	;}	Facility: <u>TRH</u>	UMVIRATE ENVI	RONMENTAL	
Address: 0700	A Table ITa	D				US EPA 1D#: .	MDD093002384		
City: Baltimor	<u>) LOCN Л81</u> ~е	<u>ven koad</u>	Sta	te: Md 7	Zin•	[∆ 1500 Cart	bon Avenue - Baltin	10rc, MD 21220 (411)) 636-3700 1176
Contact: Herb M	 	· · · · ·	· ·	Phone: 4	10-761-545		vlor Mill Rd - Salie	• A 22334 (340) 208•	03 543-1550
Transporter 1: 1	<u>່ເວຍເ</u> ການຫຼາງກາງ	e Enviro			10 201 545	Other Facility	, FCC Envi	ronmental	0) 545-1.1.5
US RPA TD#: MA	D98528698	<u>88</u>	miencur	Phone: 61	7-628-8098	US EPA TD#	DED9840	73692	
Fransnorfer 2:		<u>, , , , , , , , , , , , , , , , , , , </u>			1 020 0000	Address:	505 S. Mar	rket Street	
US EPA ID#:		· · · · · · · · · · · · · · · · · · ·		Phone:		City: Wil	mington	State: DE Zin:	19801
on PCPA/No		amlatad	Motori	ale Solide	Non PCI	24/Nan DO	T Domilator	A Motoriale	Liquid
IOH ANCINA/INC	MDOIN	egnateu	1112601	Profile #			1 Aegulated	I WATEL MAIS-	ALIQUIUS Profile #
Spill Debris				25000A	Petrol	eum Impacted Wate	F		20020A
Soil, Petroleum Soil, Gagaling fe	Pr Recucting			24000A 24000F	Oil, W	ates for Recycling			21050A
Sorbents, Gasoli	ae for Recycling			24000G	Oil, W	ater, Sludge for Red	cycling		210500
Sorbents, Jet Fue	21			24000H	Miner	al Oil for Recycling			21050E
Sorbents, Oil				240001	Giyeo	Is for Recycling			21070A
Gasoline. Sludge	of for Recycling			23000A 23000B	Keros	ene/Jct Fuel, Water:	'5 for Recycling		22070F 22070E
Industrial Sludge	2			23000D	Comm	nercial Contact Wate	er		20 0 208
Construction Del Costore Media	bris			25000B					
Gasoline Filters	for Recycling			24000C 24000E	DOT Res	mlated/Nou	RCRA Ma	terials-Licu	nids
Oil Ellions for Dr.	eveling						· ····································		
Of Philers for Ke	.cycnug			24300A	Line				Profile #
Empty Drums	cychnig			24300A 24400A 2460DA	Line UN120	03, Gasoline Mixtur	e, 3, PGII, ERG #12	28	Profile # 22070A
Empty Drums Sandblast Media	.cycung			24300A 24400A 2450DA	Line UN120 UN120	03, Gasoline Mixtur 03, Gasoline, 3, PGI 93, Combustible Lio	e, 3, PGII, ERG #12 I, ERG #128 wid, N.O.S., 3, PGH	28 I. ERG #128	Profile # 22070A 22070B 22070C
Empty Drums Sandblast Media				24300A 24400A 24500A	Line UN120 UN120 NA199 NA199	03, Gasoline Mixtur 03, Gasoline, 3, PGI 93, Combustible Liq 93, Diesel Fuel, 3, P	e, 3, PGH, ERG #12 I, ERG #128 piid, N.O.S., 3, PGH GHI, ERG #128	28 I, ERG #128	Profile # 22070A 22070B 22070C 22070C 22070G
Empty Drums Sandblast Media	Carroll	Monroiva	BP Sta	24300A 24400A 2450DA	Line UN120	03, Gasoline Mixtur 03, Gasoline, 3, PGI 03, Combustible Liq 93, Diesel Fuel, 3, P 53, Fuel, Aviation, 7	e, 3, PGII, ERG #12 I, ERG #128 µid, N.O.S., 3, PGII GHI, ERG #128 ('urbine Engine, 3, P	28 I, ERG #128 GII, ERG #128	Profile # 22070A 22070B 22070C 22070C 22070G 22070H 22070H
dditional Information: bNa: 307436	Carroll 1179	Monroiva 11 Finger	a BP Sta board R	24300A 2440DA 2450DA tion oad	Line UN12 UN12 UN12 UN12 UN12 UN18 UN18 UN12 UN12	03, Gasoline Mixtur 03, Gasoliue, 3, PGI 93, Combustible Liq 93, Diesel Fuel, 3, P 53, Fuel, Aviation, 7 23, Kerosene, 3, PG	e, 3, PGII, ERG #12 1, ERG #128 puid, N.O.S., 3, PGII GHI, ERG #128 'urbine Engine, 3, P III, ERG #128	28 I, ERG #128 GII, ERG #128	Profile # 22070A 22070B 22070C 22070C 22070G 22070II 22070E
dditional Information: b Na.: 307436	Carroll 1179	Monroiva 1 Finger Monro	a BP Sta board Ra ovia, Md	24300A 24400A 2450DA tion oad	Line UN12 UN12 UN12 UN12 NA19 UN18 UN18 UN12	03, Gasoline Mixtur 03, Gasoliue, 3, PGI 93, Combustible Liq 93, Diesel Fuel, 3, P 63, Fuel, Aviation, 7 23, Kerosene, 3, PG	e, 3, PGII, ERG #12 I, ERG #128 paid, N.O.S., 3, PGI GIII, ERG #128 Curbine Engine, 3, P III, ERG #128	28 I, ERG #128 GIT, ERG #128	Profile # 22070A 22070B 22070C 22070C 22070G 22070H 22070E
Contractors for Receiver Son Prices for Receiver Sandblast Media	Carroll 1179)) 636-3700	Monroiva 1 Finger Monro	BP Sta board R bvia, Md	24300A 24400A 24500A tion oad	Line UN12 UN12 UN12 NA19 NA19 UN18 UN18 UN18 UN12 UN12	03, Gasoline Mixtur 03, Gasoline, 3, PGI 93, Combustible Liq 93, Diesel Fuel, 3, P 93, Fuel, Aviation, 7 23, Kerosene, 3, PG Quantity	e, 3, PGII, ERG #12 I, ERG #128 puid, N.O.S., 3, PGII GHI, ERG #128 'urbine Engine, 3, P II, ERG #128 Quantity Surfage	28 I, ERG #128 GII, ERG #128 	Profile # 22070A 22070B 22070C 22070G 22070G 22070H 22070E
Chi Pricipio In Received State	Carroll 1179)) 636-3700	Monroiva Di Finger Monro Monro Itype DM	a BP Sta board Re ovia, Md	24300A 24400A 2450DA tion oad	Line UN120 U	03, Gasoline Mixtur 03, Gasoliue, 3, PGI 93, Combustible Liq 93, Diesel Fuel, 3, P 53, Fuel, Aviation, 7 23, Kerosene, 3, PG Quantity Solid	e, 3, PGII, ERG #12 I, ERG #128 paid, N.O.S., 3, PGII GIII, ERG #128 'urbine Engine, 3, P III, ERG #128 Quantity Sludge	28 I, ERG #128 GIT, ERG #128 Notes	Profile # 22070A 22070B 22070C 22070G 22070I 22070I 22070E
Contraction of the second seco	Carroll 1179)) 636-3700	Monroiva 1 Finger Monro ntainers Type DM	a BP Sta board Re ovia, Md Genuity 165	24300A 24400A 2450DA tion oad Unit WL/Vol. G	Line UN12 UN12 UN12 UN12 UN12 UN12 UN18 UN18 UN122 UN122 UN122 UN122	03, Gasoline Mixtur 03, Gasoline, 3, PGI 93, Combustible Liq 93, Diesel Fuel, 3, P 53, Fuel, Aviation, 7 23, Kerosene, 3, PG Quantity Solid	e, 3, PGI1, ERG #12 I, ERG #128 paid, N.O.S., 3, PGI1 GHI, ERG #128 (urbine Engine, 3, P HI, ERG #128 Quantity Sludge	28 I, ERG #128 GIT, ERG #128 Notes	Profile # 22070A 22070B 22070C 22070G 22070G 22070H 22070E
Contractions for Receiver Start	Carroll 1179)) 636-3700 No. 3	Monroiva)1 Finger Monro ntainers Type DM	a BP Sta board Re bvia, Md Total Quantity 165	24300A 24400A 24500A tion oad Unit WL/Vol. G	Line UN122 UN122 NA192 NA192 NA192 UN186 UN186 UN122 Quantity Liquid	03, Gasoline Mixtur 03, Gasoline, 3, PGI 93, Combustible Liq 93, Diesel Fuel, 3, P 53, Fuel, Aviation, 7 23, Kerosene, 3, PG Quantity Solid	e, 3, PGII, ERG #12 1, ERG #128 puid, N.O.S., 3, PGII GHI, ERG #128 'turbine Engine, 3, P II, ERG #128 Quantity Sludge	28 I, ERG #128 GIL, ERG #128 Notes	Profile # 22070A 22070B 22070C 22070G 22070I 22070I 22070E
On Prices for Ref Empty Drums Sandblast Media Jditional Information: b No.: 307436 Hr. Emergency #: (410 Line Profile No. A 20020A B C	Carroll 1179 1) 636-3700 No. 3	Monroiva)1 Finger Monro Mainers Type DM	a BP Sta board R ovia, Md Quantity 165	24300A 24400A 2450DA tion oad Unit WL/Vol. G	Line UN12 UN12 UN12 NA199 NA199 UN180 UN180 UN180 UN122 UN122 UN122 UN122 UN122 UN122 UN122 UN122 UN124	03, Gasoline Mixtur 03, Gasoliue, 3, PGI 93, Combustible Liq 93, Diesel Fuel, 3, P 33, Fuel, Aviation, 7 23, Kerosene, 3, PG Quantity Solid	e, 3, PGII, ERG #12 1, ERG #128 puid, N.O.S., 3, PGII GHI, ERG #128 'urbine Engine, 3, P II, ERG #128 Quantity Sludge	28 I, ERG #128 GII, ERG #128 Notes	Profile # 22070A 22070B 22070C 22070G 22070I 22070H 22070H
Control C	Carroll 1179 0) 636-3700 No. 3	Monroiva)1 Finger Monro Monro Type DM	a BP Sta board Re ovia, Md Remains 165	24300A 24400A 2450DA tion oad Unit WL/Yol. G	Line UN124 UN124 UN124 UN124 UN124 UN188 UN188 UN124 UN12	03, Gasoline Mixtur 03, Gasoliue, 3, PGI 03, Combustible Liq 93, Diesel Fuel, 3, P 53, Fuel, Aviation, 7 23, Kerosene, 3, PG Quantity Solid	e, 3, PGII, ERG #12 1, ERG #128 puid, N.O.S., 3, PGII GHI, ERG #128 'urbine Engine, 3, P II, ERG #128 Quantity Sludge	28 I, ERG #128 GII, ERG #128 Notes	Profile # 22070A 22070B 22070C 22070G 22070I 22070I 22070E
C C	Carroll 1179 0) 636-3700 No. 3	Monroiva Di Finger Monro Monro Itype DM	a BP Sta board Re ovia, Md Total Quantity 165	24300A 24400A 2450DA tion oad Unit WL/Vol. G	Line UN120	03, Gasoline Mixtur 03, Gasoliue, 3, PGI 93, Combustible Liq 93, Diesel Fuel, 3, P 53, Fuel, Aviation, 7 23, Kerosene, 3, PG Quantity Solid	e, 3, PGII, ERG #12 1, ERG #128 paid, N.O.S., 3, PGII GHI, ERG #128 Urbine Engine, 3, P II, ERG #128 Quantity Sludge	28 I, ERG #128 GII, ERG #128 Notes	Profile # 22070A 22070B 22070C 22070G 22070H 22070E
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Empty Drums Empty Drums Sandblast Media Jditional Information: b Na.: 307436 Hr. Emergency 4: (410 Linc Profile No. A 20020A B C D E F merator's Certifica arcby declare that the co pects in proper condition	Carroll 1179 0) 636-3700 No. 3 tion: 1 certify fl ntents of this con o for transport by	Monroiva)1 Finger Monro Type DM DM ematerials dess signment are fu highway accord	a BP Starboard Roborad	24300A 24400A 2450DA tion oad Unit WL/Vol. G G	Line UN120 UN120 NA199 UN180 UN180 UN180 UN182 U	03, Gasoline Mixtur 03, Gasoline, 3, PGI 93, Combustible Liq 93, Diesel Fuel, 3, P 53, Fuel, Aviation, 7 23, Kerosene, 3, PG Quantity Solid	e, 3, PGII, ERG #12 1, ERG #128 puid, N.O.S., 3, PGII GHI, ERG #128 'urbine Engine, 3, P II, ERG #128 Quantity Sludge	28 1, ERG #128 GII, ERG #128 Notes Deper disposal of Haza d, and labeled, and an	Profile # 22070A 22070B 22070C 22070C 22070C 22070E
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Empty Drums Sandblast Media Sandblast Media dditional Information: b No.: 307436 Hr. Emergency 4: (410 Linc Profile No. A 20020A B C D E F E E F E E F E E F E E C C D C C C C C C C C C C C C C	Carroll 1179)) 636-3700 No. 3 tion: 1 certify the nents of this com 1 for transport by C C by C (c)	Monroiva I Finger Monro Type DM as materials dess signment are fu highway accorr On be CI	a BP Sta board R ovia, Md <u>Quantity</u> 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765765 765 765 765 765 765 765765 765 765 765 765 765 765 765 765 765 765 765 765 765 765 765765 775 775 775 775 775 775775 775 775775 775	24300A 24400A 2450DA tion oad Unit WL/Yol. G G a this shipping doc ely described abov ble and national go	Line UN124 UN124 NA199 NA199 UN184 UN184 UN125 UN15 UN125 UN	03, Gasoline Mixtur 03, Gasoliue, 3, PGP 03, Combustible Liq 93, Diesel Fuel, 3, PG 93, Fuel, Aviation, 7 23, Kerosene, 3, PG Quantily Solid	e, 3, PGII, ERG #12 1, ERG #128 puid, N.O.S., 3, PGII GHI, ERG #128 Purbine Engine, 3, P II, ERG #128 Quantity Sludge ions for reporting pro- ified, packed, marked	28 I, ERG #128 GII, ERG #128 Notes	Profile # 22070A 22070C 22070C 22070G 22070H 22070E
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GLOBAL JOB NUMBE	R: 117508	FACILITY APPROVAL N	NUMBER: 10.3120411
Please Check One:			
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	☐ Clean Earth of New Castle 94 Pyles Lane New Castle, DE 19720 Ph: 302-427-6633	☐ Other
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	Clean Earth of Southeast Pennsylvani 7 Steel Road East Morrisville, PA 19067 Ph: 215-428-1700	a
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(Type or Print Clearly)			
GENERATOR'S NAME &	SITE ADDRESS:	GROSS WEIGHT:	
CARROLL INDEP	ENDENT FUEL	Tons Yards	
2700 LOCH RAVE	N ROAD	TARE WEIGHT:	
BALTIMORE, MD			
GENERATOR'S PHONE	410-261-5450	NET WEIGHT	
		Tons Vards	
DESCRIPTION OF MAT	ERIAL/SAMPLE ID AND LO		
CARROLL MONR	OVIA BP STATION		NON-HAZ
11791 FINGERBOA	RD ROAD		CONTAMINATED
<u>MONROVIA MD</u>			C/NTY
GENERATOR'S CERTIF	<u>ICATION</u> – Incomplete and/or ove named material does not co	r unsigned manifests will cause the load ontain free liquid as defined by 40 CFR	to be delayed and/or rejected. Part 260.10 or any applicable state law.
GENERATOR'S CERTIF I hereby certify that the ab- is not a hazardous waste as CFR Part 172 or any applie for transportation accordin Name	ICATION – Incomplete and/or ove named material does not co s defined by 40 CFR Part 261 or cable state law, has been fully a g to all applicable state and fed	r unsigned manifests will cause the load ontain free liquid as defined by 40 CFR r any applicable state law, is not a DOT and accurately described above, classific eral regulations.	to be delayed and/or rejected. Part 260.10 or any applicable state law, hazardous substance as defined by 49 ed, packaged and is in proper condition
GENERATOR'S CERTIF I hereby certify that the abis not a hazardous waste as CFR Part 172 or any applie for transportation accordin Name: Signature:	<u>ICATION</u> – Incomplete and/or ove named material does not co s defined by 40 CFR Part 261 or cable state law, has been fully a g to all applicable state and fed	r unsigned manifests will cause the load ontain free liquid as defined by 40 CFR r any applicable state law, is not a DOT and accurately described above, classifie eral regulations. Title: Date and Time:	to be delayed and/or rejected. Part 260.10 or any applicable state law, hazardous substance as defined by 49 ed, packaged and is in proper condition 12 - 9 - 10
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GENERATOR'S CERTIF I hereby certify that the ab is not a hazardous waste as CFR Part 172 or any applie for transportation accordin Name: Signature: Signature: JUL TRANSPORTER Company: Address: B30 Driver: I Driver Signature:	ICATION – Incomplete and/or ove named material does not co s defined by 40 CFR Part 261 or cable state law, has been fully a g to all applicable state and fed Attacks d Huy KEYMUR MEMUS (Type or Print Clearly) hereby certify that the above na	r unsigned manifests will cause the load ontain free liquid as defined by 40 CFR r any applicable state law, is not a DOT and accurately described above, classified eral regulations. Title: Date and Time: Phone Number: 4/16 Truck # and License Plate: 19 SW Haulers Permit #: amed material was picked up at the site 1 Date and Time:	I to be delayed and/or rejected. Part 260.10 or any applicable state law, hazardous substance as defined by 49 ed, packaged and is in proper condition 12 - 9 - 16 2 - 8 + 0 - 39999 12 - 9 - 16 11 - 8 - 14 (applicable state permit #) listed above.
GENERATOR'S CERTIF I hereby certify that the ab is not a hazardous waste as CFR Part 172 or any applie for transportation accordin Name: Signature: Image: Company: CHERTA Address: BBUE Driver: Image: CHERTA Driver Signature: Image: CHERTA Interest Signature: Image: CHERTA	ICATION – Incomplete and/or ove named material does not co s defined by 40 CFR Part 261 or cable state law, has been fully a g to all applicable state and fed MARCHA MAR	r unsigned manifests will cause the load ontain free liquid as defined by 40 CFR r any applicable state law, is not a DOT and accurately described above, classific eral regulations. 	to be delayed and/or rejected. Part 260.10 or any applicable state law, hazardous substance as defined by 49 ed, packaged and is in proper condition 1/2 - 9 - 16 2 - 840 - 39999 763 - 1816056 1874 - 1874
GENERATOR'S CERTIF I hereby certify that the ab is not a hazardous waste as CFR Part 172 or any applie for transportation accordin Name: Signature: Signature: JUL TRANSPORTER Company: Address: B30 Driver: I Driver: I Driver Signature: I hereby certify that the ab is not a hazardous waste as CFR Part 172 or any applie for transportation accordin	ICATION – Incomplete and/or ove named material does not co s defined by 40 CFR Part 261 or cable state law, has been fully a g to all applicable state and fed Market and fed	r unsigned manifests will cause the load ontain free liquid as defined by 40 CFR r any applicable state law, is not a DOT and accurately described above, classified eral regulations. 	to be delayed and/or rejected. Part 260.10 or any applicable state law, hazardous substance as defined by 49 ad, packaged and is in proper condition 12 - 9 - 16 2 - 8 + 0 - 39999 $763 - 181 \times 61$ 11 - 9 - 16 11 - 9 - 16 (applicable state permit #) listed above. 12 - 9 - 16
GENERATOR'S CERTIF I hereby certify that the ab is not a hazardous waste as CFR Part 172 or any applie for transportation accordin Name: Signature:	ICATION – Incomplete and/or ove named material does not co s defined by 40 CFR Part 261 or cable state law, has been fully a g to all applicable state and fed MUCACLE MUCAC	r unsigned manifests will cause the load ontain free liquid as defined by 40 CFR r any applicable state law, is not a DOT and accurately described above, classifie eral regulations. 	I to be delayed and/or rejected. Part 260.10 or any applicable state law, hazardous substance as defined by 49 ed, packaged and is in proper condition 12 - 9 - 16 2 - 8 + 0 - 39999 $763 - 181 \times 160$ 11 - 874 (applicable state permit #) listed above. 12 - 9 - 16 referenced facility.
GENERATOR'S CERTIF I hereby certify that the ab is not a hazardous waste as CFR Part 172 or any applie for transportation accordin Name: Signature: Signature: JUL TRANSPORTER Company: <u>CHFFTA</u> Address: <u>B30 F56</u> Driver: I Driver Signature: I Driver Signature: I Driver Signature: I Authorized Signature: I	ICATION – Incomplete and/or ove named material does not co s defined by 40 CFR Part 261 or cable state law, has been fully a g to all applicable state and fed Attacks d Market of the state and fed Attacks d Attacks d Attacksd	r unsigned manifests will cause the load ontain free liquid as defined by 40 CFR r any applicable state law, is not a DOT and accurately described above, classified eral regulations. 	I to be delayed and/or rejected. Part 260.10 or any applicable state law, hazardous substance as defined by 49 ed, packaged and is in proper condition 12 - 9 - 10 2 - 8 - 9 - 9999 763 - 181 - 99999 763 - 181 - 99999 (applicable state permit #) listed above. 12 - 9 - 9 referenced facility. 110 - 9 - 9 110 - 9 - 9

Ticket: 312000031291 Clean Earth of Maryland Scale Date Time 1469 Oak Ridge Place In: 12/9/2010 15:12:53 Scale 1 Hagerstown, MD 21740 Out: 12/9/2010 15:13:14 P.T. Ph: (301) 791-6220 Fax: (301) 791-6044 Lbs Tns Manifest: 444010 50640 25.32 Gross: Vehicle ID: CHTH-1963 17.93 Tares 35860 7.39 Vehicle Permit: Net: 14780 Customer: GROUNDWATER & ENVIRONMENT Facility Approval#: 103120411 Generator EPA#: Job Name: Carroll Fuels/Monrovia BP Sta Generator: Carroll Independent Fuel Gen Address: 2700 Loch Raven Road Job Address: 1700 Fingerboard Road Baltimore, MD 21218 Monrovia, MD 21770 Materials & Services Quantity Unit Origin Frederick Soil Treatment Type III 7.39 Ths Contaminate Type: Petroleum Treatment Type: Fixation Fac Waste Code: Soils 0.00 Unts Transportation In - Unit Frederick Contaminate Type: Not Applicable Treatment Type: Not Applicable Fac Waste Code: Not Applicable Storage Area: Area B Sample ID: 86458

Comment:

Driver: DENNIS SPIELMAN

Facility: Chandle Morgan, Chandra