Groundwater & Environmental Services, Inc.

2142 Priest Bridge Court • Suite 1 • Crofton, Maryland 21114 • (800) 220-3606 • FAX (410) 721-3733

November 12, 2009

Mr. Kurt Kochan
Virginia Department of Environmental Quality - Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193-1453

Re: Site Characterization Report
Exxon Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA
PC# 2010-3028

Dear Mr. Kochan:

Groundwater & Environmental Services, Inc. (GES), contracted by ExxonMobil Environmental Services Company (EMESC) on behalf of Exxon Mobil Corporation (EMC), is submitting the attached Site Characterization Report (SCR) for the above-referenced Site. The investigation was conducted in accordance with the SCR requirements set forth by the Virginia Department of Environmental Quality (VADEQ) in section 5.4.3 of the Storage Tank Program Technical Manual (DEQ Guidance Document #01-2024).

Please contact the undersigned at 1(800) 220-3606, extension 3703, should you have any questions or require additional information.

Sincerely,
GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

Andrea Taylorson-Collins
Environmental Scientist / Project Manager

Christopher J. Mulry, P.G.
Principal Hydrogeologist / VP Major Projects

Enclosure

c: Alexandria McBride, ExxonMobil
Melissa Tacchino, ExxonMobil
Tom Buggey, Roux Associates, Inc.
File, GES-MD

SITE CHARACTERIZATION REPORT
EXXON STATION #2-6140
9901 Georgetown Pike
GREAT FALLS, VIRGINIA
PC # 2010-3028

NOVEMBER 12, 2009

PREPARED FOR:

EXXON MOBIL CORPORATION

3225 GALLOWS ROAD, ROOM 8B0420

FAIRFAX, VA 22037

PREPARED BY:

GROUNDWATER & ENVIRONMENTAL SERVICES, INC.
2142 PRIEST BRIDGE COURT, SUITE 1
CROFTON, MD 21114

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EXXON STATION #2-6140
9901 Georgetown Pike
GREAT FALLS, VIRGINIA
PC # 2010-3028

NOVEMBER 12, 2009

Prepared for:

Alexandria McBride
ExxonMobil Environmental Services Company
3225 Gallows Road, Room 8B0420
Fairfax, VA 22037

Prepared by:

Tim Davis
Geologist

Andrea Taylorson-Collins
Environmental Scientist/Project Manager

COMMONWEALTH OF VIRGINIA
CHRISTOPHER J. MULRY
No. 956
CERTIFIED PROFESSIONAL GEOLOGIST

Reviewed by:

Christopher J. Mulry, P.G.
Principal Hydrogeologist/ Vice President

Groundwater & Environmental Services, Inc.
2142 Priest Bridge Court, Suite 1
Crofton, Maryland 21114
(800) 220-3606
(410)721-3733 fax

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1.0 INTRODUCTION

Groundwater & Environmental Services, Inc. (GES) was contracted by ExxonMobil Environmental Services Company (EMESC) on behalf of Exxon Mobil Corporation (ExxonMobil) to complete a Site Characterization Report (SCR) for Exxon Station #2-6140, 9901 Georgetown Pike, Great Falls, Virginia (the "Site"). A **Site Location Map** is included as **Figure 1**. On August 11, 2009, GES contacted the VADEQ to report analytical data results received as part of the Phase II Environmental Site Assessment (ESA). On August 14, 2009 the Virginia Department of Environmental Quality (VADEQ) issued pollution complaint number (PC #) 2010-3028 for the Site in response to data which suggested evidence of a petroleum release. An SCR investigation was conducted in accordance with the SCR requirements set forth by the VADEQ in section 5.4.3 of the Storage Tank Program Technical Manual (VADEQ Guidance Document #01-2024) and the requirements of the VADEQ Directive dated August 14, 2009. The SCR consists of three main components: a site assessment, a risk assessment and a remediation assessment.

The scope of work included:

- Review of available as-built drawings
- Research history of property ownership
- Interpretation of historical aerial photographs, and topographic and geologic maps
- Location of utilities
- Identification of underground storage tank (UST) size, location and construction
- Review of previous environmental investigative work completed at this Site
- Investigation of site geology/hydrogeology including groundwater depth and flow direction
- Identification of potential receptors
- Field confirmation of information obtained through Environmental Data Resources, Inc. (EDR) Report
- Installation of monitoring wells and soil vapor monitoring points
- Collection of soil, groundwater and soil gas samples
- Completion of preliminary aquifer testing

This SCR includes a review of environmental issues exclusively, and therefore does not include a review of any building codes, zoning regulations or restrictive covenants.

2.0 SITE DESCRIPTION

2.1 Site Location

The Site is located at 9901Georgetown Pike in Great Falls, Virginia, at the intersection of Georgetown Pike (State Route 193) and Walker Road (State Route 681) in northwestern Fairfax County, Virginia. A **Site Location Map** is

included as **Figure 1** and a **Local Area Map** is included as **Figure 2**.

2.2 Current Site Features

According to Fairfax County real estate assessment, the Site is 27,430 square feet in area (0.63 acres). The Site is an active retail station consisting of a convenience store building, a three bay service station and a canopy with four double-sided dispensers. The Site has three active USTs. A **Site Map**, included as **Figure 3**, depicts current site features.

2.3 Site Use History

The Site is believed to have been constructed and commenced operations as a service station in 1969 and underwent renovations including UST replacement in 1989 with additional facility upgrades in 1994. The Site is zoned commercial by the City of Great Falls, Virginia.

2.4 Previous Investigations

A Phase I ESA was completed for the Site by GES in November 2008. The purpose of the Phase I ESA was to identify known or suspected potential environmental concerns. A copy of the completed Phase I ESA is included in **Appendix A**.

ExxonMobil contracted ERI of Taunton, Massachusetts, to complete a Phase II ESA at the Site. As part of that work, ERI installed five soil borings at the referenced property in July 2009. Four of the soil borings were completed as monitoring wells. Groundwater samples were subsequently collected from these wells and the analyses yielded detectable concentrations of volatile organic compounds (VOCs) in each of the four monitoring wells (MW-1, MW-2, MW-3 and MW-5) and the Site potable supply well. Upon receipt of analytical data from the Phase II ESA, GES called the VADEQ on behalf of ExxonMobil to report evidence of a petroleum release on August 11, 2009, as required by VADEQ regulation. The VADEQ issued PC #2010-3028 on August 14, 2009. A copy of the Phase II ESA is included as **Appendix B.**

In response to the VADEQ directive received on August 14, 2009, ExxonMobil contracted GES of Crofton, Maryland to conduct initial abatement measures. In accordance with the VADEQ directive, GES submitted the Initial Abatement Report to the VADEQ on September 14, 2009, detailing initial abatement activities and findings.

2.5 UST System Testing/ Integrity

In 1994, the Site was issued a PC number, which is currently reported by the VADEQ as closed with No Further Action. PC #94-3879 was opened on May 12, 1994 under the Leaking Underground Storage Tanks (LUST) program for a suspected release due to the presence of water in the plus grade gasoline UST. Further investigation revealed that the water had accumulated in the UST due to normal operating conditions. The water was removed

and an inventory reconciliation verified a release had not occurred. Based on this information, the VADEQ closed this case on August 18, 1994. No active PC numbers are listed in the VADEQ databases for the Site other than the current PC number opened on August 14, 2009.

3.0 LOCAL AREA DESCRIPTION

3.1 Geology

3.1.1 Site Area Geologic Review

The Site is located in the Piedmont Physiographic Province of Virginia and is underlain by polydeformed and highly metamorphosed crystalline bedrock of the Cambrian aged Mathers Gorge Formation. This bedrock has been mapped and described by Avery and others (United States Geological Survey [USGS] 1999) and was formerly mapped as the Peters Creek Schist (Avery and Lee, 1989). It is described as a quartz-rich schist deposited in a high energy marine environment (turbidite) and subsequently deposited on the North American craton via tectonic activity in early Paleozoic time. Locally, the Mather Gorge is deeply weathered to a clay-rich silty saprolite, which retains relict structural attributes of the parent bedrock. The depth to competent rock at the Site is believed to be on the order of 50 to 60 feet below ground surface (bgs) based on the logs for the monitoring wells installed at the Site and the well log for the Site supply well and is typical of the deeply weathered schists of the mid-Atlantic Piedmont. Outcrops can be found in deeply incised stream beds and along the Potomac River to the north and northeast. Groundwater has been measured in on site monitoring wells and the station supply well at depths of approximately 30 feet bgs within the overburden which is comprised of weathered schist and saprolite. During the subsurface investigative activities conducted for this SCR, the lithology is described as mostly clayey silt and sandy silt with micaceous saprolite. Site specific geology is discussed in greater detail in Section 5.0.

3.1.2 Local Bedrock Mapping

Additional efforts to characterize the local bedrock fabric were conducted by GES through direct identification and mapping of several bedrock exposures (or outcrops) in the Great Falls area. Eight separate outcrop locations were investigated on August 20, 2009. A total of 23 planar features including bedding, primary layering and foliation planes were identified and measured from the eight outcrops studied. An additional nine brittle features, comprised entirely of joint surfaces, were also mapped at these locations. Similar to the regional foliations mapped by the USGS, these data demonstrate a marked preferential orientation striking between approximately N10°W and N25°E, with a concentration in the north-south to N15°E range. These bedrock features display a dip distribution direction primarily to the southeast. The bedrock fabric data described above are presented in **Appendix C** as Table 1 and Figure 1.

3.2 Surrounding Properties

The Site is zoned commercial by the City of Great Falls, Virginia. The surrounding properties in the immediate vicinity are primarily commercial with mixed retail and professional business complexes. Residential and public space properties (library and park) are located beyond the commercial properties in all directions. A Shell service station is located directly across Walker Road to the east of the Site (see **Figure 2**).

3.3 Utilities, Septic and Private Supply Wells

The presence of utilities, conduits, and subsurface structures were investigated via a private utility mark out on August 25, 2009. Underground utilities are prevalent at the Site (**Figure 3**). Aboveground electrical lines are located along the south side of Georgetown Pike and the east side of Walker Road. Underground utilities along the south side of Georgetown Pike include telephone lines, gas lines, water lines, electric lines and storm sewers. Underground electric lines are prevalent throughout the Site. Storm drain inlets are located in the grassy area on the west side of the station building as depicted in **Figure 3**.

The Site is served by an on-site supply well located near the northeast property corner and an on-site septic system located behind the station building to the south. Onsite water service lines run from the station building to the inactive supply well located on the northeastern corner of the property. The Fairfax Water Authority water meter for the Site is located near the northwestern corner of the property across the Virginia Department of Transportation (VDOT) right of way access road.

Many of the surrounding properties are served by municipal water provided by Fairfax Water; however, a number of nearby properties utilize on-site private supply wells. According to Fairfax County Department of Health, approximately 36 private supply wells are located within approximately one-quarter of a mile of the Site. GES area reconnaissance and Fairfax Water Authority records indicate 22 properties use wells as a sole drinking water source. **Figure 2**, the Local Area Map, depicts the Site and generalized development profile of the surrounding area. This map was prepared from county documents and field reconnaissance and shows the approximate location of all identified potable supply wells within a one quarter mile radius of the Site.

3.4 Surface Water

Surface water bodies are not present on the Site. The closest surface water body is Mine Run, which is approximately 1,000 feet north of the Site and flows from west to east. Mine Run discharges into the Potomac River approximately two miles east of the Site. Surface water bodies, topography and other features in the vicinity of the Site are depicted on **Figure 1** and the topographical maps included in the Phase I ESA (**Appendix A**).

3.5 Other Potential Sources in Vicinity of the Site

Several other UST sites and properties with documented environmental impacts exist within close proximity of the Site. These sites include:

- The Shell station located immediately east of the Site across Walker Road;
- Great Falls Auto located approximately 500 feet north of the Site at 719 Walker Road (a former Amoco service station); and
- The Great Falls Fire Station at 9916 Georgetown Pike.

In addition, a local groundwater impact case is documented from a former dry cleaner operation located in the Great Falls (Safeway) shopping center east/southeast of the Site. A Freedom of Information (FOIA) request was filed by GES on August 24, 2009 with the United States Environmental Protection Agency (EPA) to determine the current status and on-going activities associated with this case, where chlorinated hydrocarbon compounds have been detected in a wide area near the Georgetown Pike and Walker Road vicinity. On September 9, 2009 GES received a letter from the EPA stating that no responsive information was found. On September 30 and October 27, 2009 GES was able to contact a remedial project manager associated with the former case who reported that the case is no longer active and limited records were available. On November 2, 2009 all case files were faxed to GES. EPA files are attached as **Appendix D**.

4.0 INITIAL ABATEMENT MEASURES

4.1 Actions Taken to Prevent Further Releases

4.1.1 Standard UST Testing

On August 12, 2009, Tanknology, NDE ran a series of tank tightness tests on the USTs at the Site. The first test utilized the EZ3® Vacuum system test; all three USTs tested tight. During the second test, Tanknology ran tightness tests on all product lines and also performed Stage I and Stage II Vapor Recovery Tests. All of the lines tested tight.

4.1.2 Enhanced Helium UST Testing

On August 28, 2009, ExxonMobil contracted Crompco, LLC (Crompco) of Pennsylvania to conduct an enhanced leak detection helium test of the UST system at the Site per VADEQ's request. Crompco first performed a pressure decay test on the UST and line system using nitrogen to confirm all the caps and lids were tight; no leaks were identified. Subsequently, Crompco pressurized the entire system using helium and used sensors to search for any leak or presence of helium that may have escaped the system. The only issues found were slight leaks in a vapor vacuum motor inside the bottom of multiple product dispensers (MPD) 5/7 and around a boot on the Plus Product secondary product line inside the dispenser pan for MPD 6/8 where the GEOFLEX ® double wall line is connected to the fittings under the dispenser. The dispenser pan acts as a barrier between these components and the soils below. All other parts of the system tested tight, and none of the findings indicated that there were leaks elsewhere in the system.

GES provided an email to the VADEQ describing the test results and repairs planned. Following the VADEQ's approval, the vapor vacuum motor on MPD 5/7 was replaced on September 8, 2009. The Plus Secondary Line

repair under MPD 6/8 was conducted on October 19, 2009. Results of both testing events are included as **Appendix E**.

4.2 Hazard Mitigation

4.2.1 Alternate Water Supply Onsite

On August 11, 2009, bottled water was supplied to the Site. The sinks were turned off and anti-bacterial waterless hand wash was provided until an alternative water supply (AWS) system was delivered to the station on August 18, 2009. The AWS is composed of a 3,500-gallon polyethylene tank with a pump and hosing that is directly connected to the building plumbing to operate the toilets and sinks. The potable AWS water is replenished on an as-needed basis by South Jersey Water Company while steps are being taken to permanently connect the Site to municipal water. The on site potable water supply well pump was removed and the well was permanently taken out of service on August 24, 2009.

4.2.2 Site Water Line Connection

The Site will be connected to the public water supply to replace the AWS. Payment was made to Fairfax Water on September 3, 2009 to initiate construction of the water supply line and connect the station to a permanent public water supply. Fairfax Water has installed a water meter off Georgetown Pike and is extending the connection through a VDOT right-of-way adjacent to the Site that is not owned by ExxonMobil. Once the line is installed by Fairfax Water, ExxonMobil will contract a plumber to connect the Site to the public water supply and the AWS will be removed from the Site.

4.2.3 Local Area Potable Well Sampling

The VADEQ directed ExxonMobil to sample potable wells within one-eighth of a mile of the Site and wells within a one-quarter of a mile that fell in quadrants northeast and southwest of the Site, corresponding to the predominant structural orientation of bedrock underlying the area. GES sent Fairfax Water a list of addresses within a quarter mile radius of the site and requested that Fairfax Water confirm which properties were connected to public water. This list of properties and status with Fairfax Water is attached as **Appendix F**.

GES visited all properties within the study area on August 20, 2009 to request permission to sample the potable well and obtain information on the construction and location of the well. At those properties where no one was at home, GES left letters for the property occupants. Potable well sampling began on August 20, 2009. As of November 3, 2009, a total of 20 off-site potable wells have been sampled. Of the 36 potable wells identified by Fairfax County Department of Health, these listed have not been sampled for the following reasons:

- 813 Constellation declined sampling;

- 801 Constellation the owner has not responded; and

- The remaining 14 locations were confirmed to be connected to public water.

Samples from potable wells at six of the 20 properties sampled had detections of a petroleum constituent above the reporting limit, but less than the method detection limit of 1 microgram per liter (µg/L). Petroleum constituents were not detected in the remaining 14 samples.

A summary of the laboratory results for samples collected from August 20, 2009 through November 3, 2009 is attached as **Table 1**. The analytical results for domestic potable well samples collected from August 20, 2009 through November 3, 2009 are attached as **Appendix G**. A map identifying maximum domestic potable well sample result locations for samples collected from August 20, 2009 through November 3, 2009 is attached as **Figure 4**.

4.2.4 VADEQ Alternate Water Supply Program

At the direction of the VADEQ, the six properties with detectable concentrations of petroleum constituents were provided an initial supply of potable water (five one-gallon bottles). Deer Park accounts were created for as-needed deliveries of bottled water. The VADEQ, under its AWS program, arranged for the re-sampling of any potable water well that had a detectible concentration by its contractor, Culligan. GES coordinated with Culligan to split samples during the initial round of re-sampling. The VADEQ/ Culligan sampling results are attached as **Appendix H.**

Subsequent sampling of potable wells in the study area will be managed by the VADEQ. The VADEQ has determined that potable wells with detections of petroleum constituents will be sampled by Culligan on a quarterly basis beginning in November 2009. After two consecutive quarters of sampling with no petroleum constituents detected, the property owner will be notified and bottled water delivery will be discontinued.

The VADEQ will monitor the potable well sampling results and evaluate on a case-by-case basis whether additional action is necessary. All additional actions will be performed by the VADEQ under the AWS program.

5.0 INVESTIGATIVE ACTIVITIES, METHODS AND FINDINGS

5.1 Investigative Methods

5.1.1 Monitoring Well Installation and Development

On September 11 through October 14, 2009, B.L. Myers Bros. of MD, LLC (B.L. Myers) installed six new shallow groundwater monitoring wells (MW-6S, MW-7, MW-8, MW-9, MW-10, and MW-11) utilizing hollow-stem auger drilling methods. Wells were screened across the water table surface within the weathered, massive saprolite. The location of these six new shallow monitoring wells and all previously installed monitoring wells are shown on **Figure 3**. These six locations were approved in advance by the VADEQ. Five of the six new wells were installed on

ExxonMobil property or the adjacent Virginia Department of Transportation (VDOT) right of ways. One well was installed off-site on the property of 746 Walker Road. The rationale for the selected locations was as follows:

- MW-6S was located to provide lateral delineation of dissolved-phase methyl tert-butyl ether (MTBE) to the south in the water table aquifer;
- MW-7 was located to provide lateral delineation of dissolved-phase MTBE to the southeast in the water table aquifer;
- MW-8 was located to provide lateral delineation of dissolved-phase MTBE to the east in the water table aquifer;
- MW-9 was located to provide lateral delineation of dissolved-phase MTBE to the north in the water table aquifer;
- MW-10 was located to provide lateral delineation of dissolved-phase MTBE at the southern end of the adjacent property in the water table aquifer; and
- MW-11 was located to provide soil and groundwater delineation of the possible source area around the UST cavity.

The shallow monitoring wells were constructed of two-inch or four-inch diameter PVC with 0.020-inch slotted screen. Silica sand was placed in the annular space from the base of the monitoring well to two feet above the screen, followed by a two foot interval or greater of hydrated bentonite chips and finished to grade with grout. The monitoring wells were completed flush to grade with a locking cap and manhole. B.L. Myers developed the monitoring wells by pumping within one to two days of completion. All drill cuttings and purge water were containerized for transport offsite for proper disposal as described in the waste management section of this report. Monitoring well construction details and soil boring logs/monitoring well construction records are presented in **Table 2** and **Appendix I**, respectively.

5.1.2 Split-Spoon Soil Sampling Activities

During drilling activities, continuous soil sampling with a split-spoon sampling device was completed for screening and collection of soil samples for laboratory analysis. A photoionization detector (PID) was used to field screen soils during the drilling activities for relative quantification of volatile organic compounds (VOCs). Blow counts were recorded from each six-inch interval penetrated by the split-spoon device. Soils were also visually inspected for lithology and detailed observations of color, grain size, and texture based on the Unified Soil Classification System (USCS). One soil sample was typically retained from the area directly above or across the saturated zone for laboratory analysis. A second soil sample was retained from the base of the monitoring well MW-11 boring where field screening indicated a persistent PID responses. Soil samples were collected in laboratory supplied bottles and submitted on ice and under chain-of-custody to Accutest Laboratories (Accutest) of Dayton, New Jersey for laboratory analysis.

The soil samples submitted to Accutest were analyzed for VOCs in accordance with Environmental Protection Agency (EPA) Method 8260 and total petroleum hydrocarbons- gasoline range organics (TPH-GRO) in accordance with EPA Method 8015M. The soil sample depths and analytical results for samples collected from the six new shallow monitoring well locations and for previous soil sampling activities are summarized on **Table 3**. The analytical laboratory report for the recent soil samples is provided in **Appendix J**. A complete discussion of the overall soils results is presented in **Section 6.1**.

5.1.3 Bedrock Well Installation and Development

On September 14 and 15, 2009, B.L. Myers installed one new deep monitoring well (MW-6D) utilizing air rotary drilling methods. The location of this new deep monitoring well and all previously installed monitoring wells are shown on **Figure 3**. This location was approved in advance by the VADEQ and was installed adjacent to the recently installed shallow well, MW-6S. The rationale for the selected location was to provide water quality data from the bedrock aquifer near the southern property boundary. As relates to the predominant bedrock structure identified in the Site vicinity, MW-6D is located along an azimuth of N14°E from the station's fuel dispensers, defining the western-most bedrock aquifer location likely to realize migration of dissolved petroleum compounds derived from a UST system-related source.

Installation and construction of the deep monitoring well was completed in two steps. First, the well was drilled until changes in cuttings and penetration rates indicated that competent bedrock was encountered and a 6-inch diameter steel casing was set in the top of bedrock to a depth of 65 feet. The steel casing was grouted into place and left to set for at least 12 hours to seal off potential groundwater from the overburden water bearing zone. Second, a smaller diameter drill bit was advanced through the steel casing and competent bedrock to the desired depth. The well was completed as an open borehole from 65 feet to a depth of 120 feet. The deep monitoring well was finished flush to grade with a locking cap. Monitoring well construction details and soil boring logs/monitoring well construction records are presented in **Table 2** and **Appendix I**, respectively.

During drilling activities, cuttings were screened using a PID. Petroleum vapors were not observed during drilling of the deep monitoring well. Cuttings were also visually observed for color and texture. During drilling, penetration rates consisting of hammer drop in feet per second (feet/sec) were also measured to evaluate the location of competent bedrock and where fractures or water bearing zones may exist. This information is presented in the boring log for monitoring well MW-6D (**Appendix I**.)

After installation, the deep monitoring well was developed by B.L. Myers using decontaminated pump equipment. The drill cuttings and purge water were containerized for transport offsite for proper disposal as described in the waste management section of this report.

5.1.4 Supply Well Geophysical Logging

A series of down-hole geophysical tests were conducted in the Site supply well on August 26, 2009 as part of the investigation. As detailed in section 4.2.1, the submersible pump was removed on August 24, 2009. The purpose of this testing was to: 1) evaluate potential lithologic variability within the well; 2) identify the location and orientation of fractures within the well; 3) identify water-bearing fractures, if possible; and 4) determine the most likely mechanism for MTBE introduction into the supply well.

The Site supply well is constructed of 55 feet of six-inch diameter steel casing set at surface grade and approximately 61 feet of open rock beneath the casing to a terminal depth of 116 feet. The submersible pump had been set at a depth of approximately 110 feet in the well.

All video and geophysical surveying work was completed by Earth Data, Inc. (Earth Data) of Centreville, Maryland. The following tests were conducted at the Site supply well:

- Caliper;
- Fluid conductivity;
- Fluid temperature;
- Acoustic Borehole Televiewer; and
- Heat Pulse Flowmeter.

In addition, prior to undertaking the borehole geophysical testing, a down-hole color video survey was completed to ascertain overall well conditions and fracture locations.

These test methods were selected to yield information relative to borehole condition, geology, fracture location, spacing, orientation and size, water-bearing zones and general borehole flow patterns. Reports prepared by Earth Data that provide information on the specific test methods and findings for the borehole geophysical logging completed are included in **Appendix C**. In addition, a tabular data summary and statistical data plots prepared by GES are also included in Appendix C to provide interpretive evaluation of the geophysical testing results.

The borehole geophysical testing yielded the following general findings:

- Bedrock composition and character show little change with depth (i.e., no significant lithologic differences were noted across the 61 feet of borehole investigated).

- The 17 bedrock fractures identified via acoustical televiewer imaging display a bimodal strike and dip relationship. A northwest strike (averaging N39°W) and shallow dips primarily to the northeast at an

average angle of 34° characterize the 8 fracture features above a depth of 79 feet. A northeast strike (averaging N17°E) and steeper dips primarily to the southeast at an average angle of 57° characterize the 9 fracture features below a depth of 79 feet. These are apparent upon evaluation of Figure C2 of **Appendix C**.

- These deeper features are more closely aligned with the findings determined from local bedrock mapping.
- Evidence of groundwater flow in the Site supply well was found at depths below 79 feet as summarized in **Table C2** of **Appendix C**.

Based on the down-hole geophysical testing, one of the more significant findings was the strong preferential orientation of fractures in the vicinity of the Site. A more detailed assessment of the fracture orientations found during the ATV study and the other features described earlier in **Section 4.0** is presented below.

5.1.5 Bedrock Structural Synthesis

Figures C1, C2 and C3 of **Appendix C** present three sets of bedrock structure plots for the Site. **Figure C1** shows structural orientation of the 23 bedrock fabric features identified in the local outcrop study of August 20, 2009, **Figure C2** depicts the 17 fracture planes identified during the supply well geophysical survey of August 26, 2009 and **Figure C3** presents a compilation of both data sets, or 40 composite planar bedrock features. The compass rose diagrams, presented on the left-hand side of each figure, are two-dimensional representations displaying the bearing or strike of each planar feature on a 360° plot. The length of each colored plot segment (ray) represents the total number of identified planes whose measured strike alignments fall within the corresponding 10 degree arc. Assessment of these figures reveals the following:

- There is a predominant northeast orientation or strike to the bedrock fracture fabric in the vicinity of the Site;
- The majority of the identified features have a bedrock fabric orientation or strike that falls between north-south and N15°E; and
- The planar bedrock features from the supply well have a bimodal character with a shallow feature strike orientation to the northwest; these were observed via the ATV tool predominantly above 78 feet bgs.

A stereogram depicting the three-dimensional orientation of the planar features described above also accompanies each of the three compass rose diagrams in **Appendix C**. In these figures, each plane is represented by a point normal to that plane projected onto a lower hemisphere plot. Thus, both the strike and dip of a plane is represented by a single point on the hemispherical plot. Point density per grid cell is contoured by color to demonstrate

similarities in fabric orientation. Assessment of this figure reveals the following:

- The majority of planar bedrock features strike northeast and dip steeply to the northwest in a range between approximately 30° and 70°, clustering strongly about a dip of 60°NW, as illustrated by the density of observations plotted in the upper left quadrant of Figure 3 in **Appendix C**;
- The planar bedrock features have a slight bimodal character with a secondary, shallower dip orientation to the northwest as illustrated by the less pronounced density of observations plotted on the right half of each of the three figures. It is likely that this bimodal distribution is the result of roughly north-south trending folds- generating measurements on opposing fold and limbs.

In summary, a multi-faceted study of bedrock structural features was undertaken which included regional literature research, aerial photograph interpretation, local outcrop mapping and borehole geophysical imaging. Analysis of these diverse data indicates a consistent trend of bedrock fracture fabric orientation in a northeast direction, primarily striking approximately N14°E with steep dips primarily to the northwest. Borehole geophysics suggest depth dependent fabric orientation with a strike of N10°W to N15°W above a depth of 78 feet and indication of groundwater flow at depths below 78 feet, where northwest trending features are prevalent.

5.1.6 Slug Testing

The overburden aquifer testing discussed below was conducted to ascertain aquifer hydraulic properties as well as to assist in developing further testing programs for the Site. Rising and falling-head slug tests were conducted on October 14, 2009, in overburden monitoring wells MW-5, MW-7, and MW-9 to ascertain the hydraulic properties of the overburden aquifer. MW-9 only received a falling head test. After recording the static water level in each monitoring well, a decontaminated 1.25-inch diameter, five feet long slug was rapidly lowered below the static water level and water levels were recorded until conditions reached approximately 90% of the original head condition. After the well stabilized to 90%, the slug was rapidly removed and the potentiometric head was re-equilibrated again. Water level data were recorded with an In-Situ® Mini Troll data logger device. The data logger readings were subsequently downloaded to a computer and entered into the Aqtesolv® numerical solution utilizing the Bower and Rice equation for partially penetrating wells in an unconfined aquifer. The data and Aqtesolv® plots and numerical solutions for all slug tests are included as **Appendix K**.

The range of hydraulic conductivity (K) values determined for each of the three tested wells was between 0.02 feet/day for MW-9 and 0.24 feet/day for MW-7. The average for the site was 0.122 ft/day. MW-7 exhibited a K value an order of magnitude higher than other wells tested. This may be related to the presence of vein quartz in MW-7 or perhaps a shallower transition from structured saprolite into weathered rock at this location relative to MW-5 and MW-9. A more detailed geologic summary is presented in Section 6.3

5.2 Summary of Groundwater Results

5.2.1 Water Table Groundwater Sampling

GES collected groundwater samples from all monitoring wells. The wells were purged and then sampled. Measured water levels in the monitoring wells ranged from 28.96 feet bgs to 36.84 feet bgs. The calculated average hydraulic gradient is 0.21 feet per foot to the southeast. On October 15, 2009, the wells were gauged and the calculated groundwater gradient was 0.019 feet per foot to the southeast. The gauging data are summarized in **Table 1** and a water table potentiometric surface map is included as **Figure 5**.

Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, MW-5, MW-6S, MW-7, MW-8, MW-9, MW-10 and MW-11 on October 15, 2009. Total BTEX concentrations ranged from non-detect in monitoring wells MW-1, MW-2, MW-5, MW-6S, and MW-10 to a maximum total BTEX concentration of 113.6 µg/L in monitoring well MW-8. MTBE was detected in the samples from all of the monitoring wells (including up-gradient wells). The minium MTBE concentration was 2.8 µg/L in monitoring well MW-6S. The maximum MTBE concentration was 203,000 µg/L in monitoring well MW-8. TPH-GRO concentrations were generally low in relation to the MTBE concentrations. The distribution of TPH-GRO is consistent with the distribution of the MTBE with concentrations greater than 100,000 µg/L in wells nearest the UST system (MW-1, MW-2 and MW-8) and non-detect in wells further from the UST system (MW-5, MW-6s, MW-7, and MW-10.) The maximum TPH-GRO concentration was 207,000 µg/L in monitoring well MW-8.

For the chlorinated compound Tetrachloroethylene (PCE), monitoring wells MW-1, MW-2, MW-7, MW-8 and MW-11 were non-detect. The maximum PCE concentration was 7.0 µg/L in monitoring well MW-9. The maximum Trichloroethylene (TCE) concentration was 5.8 detected in monitoring well MW-8. TCE was not detected in MW-1, MW-2, MW-5, MW-7, MW-8 and MW-11. Groundwater analytical data is summarized in **Table 4**. Complete laboratory reports and chain of custody documentation presented in **Appendix L**.

5.2.2 Bedrock Groundwater Sampling

As referenced in previous sections of this report, the site characterization work undertaken in response to the issuance of PC # 2010-3028 by the VADEQ was largely the result of dissolved MTBE detections identified in monitoring wells MW-1 and MW-2 and the Site supply well. The supply well, completed in the bedrock aquifer underlying the site was sampled on five occasions during the period July 21 through October 16, 2009. In addition, 20 additional private supply wells located within a one-quarter mile radius of the site, and also completed within the bedrock aquifer, were sampled on one or more occasions during this period.

Six separate sets of groundwater samples were collected from the Site supply well on five different dates from July 21 through October 16, 2009. These data are summarized in **Table 5**. Note that the samples were collected using

several procedures and from different intervals within the well as describe below:

- On July 21, 2009 and August 11, 2009 the samples were collected from the cold water tap in the Site men's room – derived from the submersible well pump set at a depth of approximately 110 feet in the supply well. This water source was not passed through filters or heaters prior to sample collection.
- A second sample collected on August 11, 2009 from a cold water tap adjacent to the coffee machine in the station's retail space - also derived from the submersible well pump. This water source was not passed through filters or heaters prior to sample collection.
- The sample collected on August 17, 2009 was taken from the supply well head using a bottom-loading disposable bailer inserted into the well from the surface after the submersible pump was removed from the well. The static depth to water in the well was approximately 30 feet below the ground surface at that time – well above the former submersible pump depth of 110 feet.
- Two sets of two samples were collected on October 15, 2009. One set is a duplicate (denoted by the "R" suffix on the lab ID); therefore the sample collection technique for each set is identical. These samples were collected using the low flow method described in detail below. One sample was collected from a depth of 65 feet – or slightly below the bottom of the steel casing and a second sample was collected from close to the bottom of the well at a depth of 105 feet.

MW-6D was sampled on October 15, 2009 utilizing low-flow sampling techniques. Prior to sampling, the well was gauged using a decontaminated oil/water interface probe. A 2-inch diameter stainless steel Grundfos pump with dedicated polyethylene tubing was utilized to sample two intervals from the bedrock well. The two intervals included a sample directly below the casing (65 feet) and near the bottom of the well (105 feet). The pumping rate was set to approximately 200ml/min and groundwater geochemical parameters (Temperature, Conductivity, Dissolved Oxygen, pH, Redox Potential) were monitored utilizing a Yellow Springs, Incorporated (YSI) multi-parameter field testing unit with a flow-though cell. Following stabilization of groundwater parameters, the YSI was disconnected and each interval was sampled for VOCs by EPA method 8260B as well as TPH-GRO by EPA method 8015. The purge and decontamination waters were subsequently disposed of as described in the waste management section of this report.

The supply well sample analytical results exhibited maximum concentrations of benzene (8.0 µg/L), xylenes (8.4 µg/L and MTBE (2520 µg/L) at a depth of 65 feet bgs. Sampling results at the deeper interval were slightly lower. These concentrations are significantly lower than in the samples collected previously from the supply well under pumping conditions. In addition, the sample collected from the top of the supply well water column on August 17, 2009 exhibited a relatively low dissolved MTBE concentration as well. These findings suggest that the submersible pump may have acted to draw groundwater containing MTBE down into the bedrock aquifer from a source in the

saprolite zone and that the MTBE concentration profile likely is declining in the bedrock aquifer in the immediate vicinity of the Site supply well under non-pumping conditions.

The groundwater sample from MW-6D exhibited no detections of BTEX compounds. MTBE was detected in both sampling intervals (65 feet and 110 feet) at a concentration of 3 µg/L – suggesting there is little vertical flow gradient in MW-6D and no evidence of significant MTBE migration from the Site (an azimuth heading of approximately N35°E).

Both chlorinated compounds PCE and TCE were detected in monitoring well MW-6D with similar concentration at both 75 feet and 110 feet. The maximum TCE concentration was 1.7 µg/L at a depth of 110 feet bgs. The maximum PCE concentration was 5.7 µg/L at a depth of 75 feet bgs.

5.3 Vapor Phase Investigations

The intent of the vapor phase investigations was: a) to assess the potential of migration of VOCs in proximity to the Site station building or near the western and southern Site property boundaries where adjacent commercial/professional centers exist and; b) to determine if vapor phase VOC concentrations can be sustained under vacuum conditions from extraction points in close proximity to the Site's underground storage tank (UST) system.

The vapor investigation also allowed for an initial assessment of soil vapor conditions at the identified locations and enabled periodic soil vapor monitoring at these locations and in the UST cavity. In addition, a "baseline" condition relative to VOC concentrations was provided through the proposed vapor extraction testing in and adjacent to the UST cavity.

5.3.1 Soil Vapor Monitoring

Four permanent soil vapor monitoring points (VP-1, VP-2S, VP-2D, and VP-3) were installed in the western, central and southern areas of the Site, respectively, as depicted on the attached Site Plan.

The Scope of Work was separated into the following tasks:

1. Location markout and utility clearance activities;
2. Installation of soil vapor monitoring points;
3. Collection and analysis of soil vapor samples;

The soil vapor sampling procedures were in accordance with accepted industry practice, as well as standard operating procedures of GES and ExxonMobil. Each task of the Scope of Work is described in detail below.

Task 1 – Location markout and utility clearance activities: All soil vapor monitoring locations were marked out in the field prior to the mobilization of drilling equipment to the Site. The locations were adjusted as necessary to avoid potential subsurface structures and/or utilities. All four subsurface penetration locations are located on the Site. Utility mark-outs by the local one-call center and information previously ascertained during a private property utility survey were considered when locating the soil borings.

In accordance with safe drilling practices and ExxonMobil pre-drilling protocols, air knife, vacuum excavation and/or hand-clearance activities were conducted at each proposed boring location to verify the absence of utilities prior to installation of the vapor monitoring points. This pre-drilling borehole clearance work was performed by using an air knife to remove the soil to a depth of five feet below grade and eight feet below grade for the nested vapor monitoring points located between the USTs and the station building (VP-2S and VP-2D). After the appropriate clearance depths were attained, the vapor monitoring points were installed.

Task 2 – Installation of soil vapor monitoring points: At each of the three cleared vapor monitoring boring locations, continuation of vacuum excavation was used to open each boring to a total depth of approximately eight feet bgs. At a depth of eight feet, a 6-inch length of 1/2 -inch diameter tubular stainless steel screen connected to flexible ¼ inch Teflon® tubing was lowered to the bottom of the borehole after extraction of all drilling/excavating equipment. The screened interval was packed in a select filter media (washed #001 Morie sand) until at least one foot of the borehole was filled. A one foot thick granular bentonite seal was then emplaced and hydrated and a Portland cement grout covered the bentonite to a depth of approximately one foot bgs. The Teflon tubing extended to the surface and was finished in an eight-inch diameter surface-flush manhole assembly set in a two-foot by two-foot concrete pad.

A second, nested vapor monitoring screen assembly was installed in the boring located between the UST cavity and the station building (VP-2S and VP-2D). In this boring, the deeper screen (VP2-D) was set as described above and grout was placed to a depth of approximately four feet bgs. A second, shallow six-inch long screen (VP-2S) and tubing assembly was placed above the cured grout seal and completed as described above with a filter pack to a depth of three feet, a one-foot thick bentonite seal and Portland grout to near ground surface. These vapor monitoring points are depicted as VP-1, VP-2S, VP-2D and VP3 on the attached **Figure 3.**

Task 3 - Collection and analysis of soil vapor samples: The soil vapor sampling points were allowed to stabilize for thirteen days prior to sampling. Soil vapor sampling was then performed utilizing the following procedural steps:

1. The sampling tubing was connected to a 'T' connector three-way valve assembly, with one end of the 'T' connector leading to a vacuum pump and the other end connected to a pre-evacuated certified clean 6 liter summa canister with 5 minute flow regulator via Swagelok connectors.

2. The soil vapor sample tubing was then purged of approximately three volumes of the sample tubing and sand-filled annulus surrounding the screen using a vacuum pump set at a rate of approximately 0.2 liters per minute.

3. A tracer gas (helium) was then used to enrich the atmosphere in the immediate vicinity of the sampling location where the sampling tubing intersects the ground surface in order to test the borehole seal and verify that ambient air is not inadvertently drawn into the sample.

4. Following the purging and tracer gas verification steps, the valve leading to the pump was closed, the pump was turned off, and the soil vapor was directed to the summa canister for sample collection, using the summa canister regulator to restrict the sample collection rate to 0.2 liters per minute or less.

5. During the purging process and again once the sample was collected, soil vapor was extracted and screened with several gas meters for oxygen and carbon dioxide to assist in determining soil vapor conditions. Oxygen and carbon dioxide were measured as percent volume using a multi-gas meter, calibrated daily with an appropriate multi-gas standard.

Ambient air samples were not collected at land surface during the initial sampling event, as the helium tracer test did not indicate any communication between the vapor monitoring well and surface ambient air. All soil vapor samples were analyzed for VOCs using EPA Method TO-15 and for methane using EPA Method TO-3. The soil vapor point sampling results are summarized in **Table 7.** Laboratory analytical data are attached as **Appendix M**. Soil vapor monitoring point boring and construction logs are attached as **Appendix I.**

5.4 Waste Management

Soil and groundwater were generated from site activities including monitoring well installation, monitoring well development, monitoring well sampling and on-site potable well sampling. As per the VADEQ approved work plan, soils were stockpiled on the Site in 55-gallon drums. Triumvirate Environmental of Baltimore, Maryland (Triumvirate) characterized and transported 41 drums of soil to Soil Safe, Inc. of Baltimore, Maryland (Soil Safe), for proper disposal. Copies of the Non-Hazardous Waste Manifests are included in **Appendix N**.

Groundwater generated from these activities was also stored in 55-gallon drums on the Site. Triumvirate removed a total of five drums of groundwater and disposed of the water at the Baltimore, MD facility. Copies of the Non-Hazardous Waste Manifests are included **Appendix N**.

6.0 SUMMARY OF INVESTIGATIVE FINDINGS

6.1 Soil Analytical Findings

Review of the soil analytical results, along with information derived from other aspects of this investigation, yield the

following conclusions related to soil quality:

- The soil sampling program had broad aerial distribution and incorporates samples in the immediate vicinity of the tank field as well as those at the property perimeter and off-site.

- The soil samples which were submitted for laboratory analysis typically were biased toward those samples with the highest PID readings (shown on soil boring logs) found in an individual borehole or from directly above the water table. As a result, the soil analytical results were selected to reflect the highest potential VOC levels in an individual boring, or represent a positive sampling bias.

- All soil samples collected above 35 feet bgs (in the vadose zone) were non-detect for MTBE with the exception of MW-1 and MW-2 which returned MTBE concentrations of 7.06 µg/kg and 14.2 µg/kg, respectively.

- The two highest detections were from MW-8 and MW-11 which had maximum MTBE levels of 3,000 and 9,600 µg/kg, respectively. These samples were collected from depths where significant moisture was first observed during drilling. Both samples were collected from below the static water level at a depth of 32 to 36 fbg.

- The soil results for BTEX, TPH-DRO and TPH-GRO were generally non-detect and the few detectable concentrations returned do not suggest significant soil impacts by these constituents.

- There were no detections of chlorinated ethenes in soil samples taken from any of the borings advance on site.

Based on the soil sample results, it is concluded that there is no evidence of a source for the groundwater contamination in the overburden soils. All of the higher MTBE soil concentrations were from samples collected within the saturated zone. More specifically, these samples are located within the area of the Site where dissolved-phase MTBE is known to be present. In effect, these soils results reflect the groundwater conditions beneath the Site and no soil borings or wells appear to have identified an MTBE source in the vadoze zone.

6.2 Soil Vapor Analytical Findings

Three shallow and one intermediate vapor monitoring points were installed to evaluate the presence and possible migration and risk implications of vapor phase VOCs at the Site. Review of the soil vapor sample results indicates that several VOCs were detected in shallow and deep soil vapor monitoring points above method detection limits and that in all cases, the deeper screen interval returned higher VOC concentrations. These values are presented in Table 7. Comparing the three shallow point values, those returned for gasoline compounds Benzene and MTBE were

higher in vapor point VP-2S relative to points located near the property perimeter (VP-1 and VP-3). For the chlorinated compound Tetrachloroethylene (PCE), VP-2S returned the lowest concentration and insufficient data were returned to establish a trend for Trichloroethylene (TCE) concentrations. Comparison of the site specific vapor phase VOC data with USEPA Regional Screening Level (RSL) values indicates that vapor phase concentrations for Benzene, MTBE, PCE and TCE exceed either or both of the RSL values for hazard index or cancer risk as compared to residential indoor air RSLs. However, these conservative screening values assume that an indoor air pathway is complete and the space is occupied according to residential default assumptions – neither which apply to this site. In addition, the significant difference in gasoline compound vapor phase VOC concentrations between shallow and deep vapor monitoring points indicates rapid compound attenuation in the vadose zone as the soil/surface interface is approached. Conversely, the data do not suggest on site source(s) for chlorinated VOCs.

6.3 Hydrogeologic Findings

The hydrogeologic conditions have been characterized through numerous techniques including a review of published literature, monitoring well installation/gauging, borehole geophysics and other techniques. Based on available data, key hydrogeologic findings are presented below.

- The geology beneath the Site consists of four distinct geologic strata including: 1) Fill material and massive silty saprolite; 2) Structured or layered saprolite; 3) weather bedrock (a transitional zone from structured saprolite); and 4) fractured, competent bedrock.
- The fill and massive saprolite occurs from the land surface to approximately 30 feet bgs. The massive saprolite is underlain by structured saprolite which typically extends from approximately 30 feet bgs to 55-65 feet bgs beneath the Site. Structured saprolite is underlain by fractured, bedrock (generally occurring between 55 and 65 fbg), which shows some evidence of transition to competent bedrock (generally at depths of 70 to 80 fbg). These relationships are graphically depicted in the interpretive geologic cross sections shown on **Figures 7** and **8**.
- Bedrock composition and character show little change with depth (i.e., no significant lithologic differences were noted).
- With the exception of the overall bedrock fracture fabric (discussed below), major, extensive structural features (e.g. discrete faults) were not identified beneath or in the vicinity of the Site.
- The majority of the identified features have a bedrock fabric orientation or strike that falls between north-south and N15°E and dips primarily to the southeast at a predominant angle of approximately 55° to 65°. The planar bedrock features identified in the shallow (above 78 feet) zone of the station supply well demonstrate a northwest strike and dip orientation to the northeast.

- Overall assessment of the data did not reveal individual, discrete fractures (or fracture sets) that exert predominant control on ground-water transport beneath or in the vicinity of the Site.

- Four interrelated geologic units have been defined. Groundwater is found under unconfined conditions near the transition from the upper most unit (fill and massive saprolite) to the underlying second unit (structured saprolite).

- Two integrated hydrostratigraphic units have been defined beneath and adjacent to the Site. The structured saprolite overlying the bedrock is generally saturated and in communication with the bedrock as demonstrated by lack of major head difference between MW-6S and MW-6D. Fractured bedrock demonstrated some signs of a transition zone to more competent bedrock (generally occurring between 70 and 80 feet bgs).

- Based on the available data, the majority of the ground water is derived from the structured saprolite water table aquifer. The lower bedrock aquifer is interconnected and recharged from above by the water table.

- Structured saprolite water table transport is primarily to the south-southeast in response to the regional potentiometric surface.

- The mean hydraulic conductivity values measured for the structured saprolite are 0.13 feet/day.

- An extensive bedrock aquifer investigation has not been undertaken as available evidence suggests that dissolved MTBE detected in the Site supply well was drawn to this depth via the action of the (former) submersible pump set in that well.

- Based on offsite potable well sampling there is little evidence to support the offsite movement of dissolved phase MTBE in the bedrock. **Figure 4** depicts the local area map with potable well sample results.

- The highest concentrations of dissolved MTBE were detected in water table wells MW-7 and MW-8 located in close proximity to the station USTs. Delineation of dissolved phase MTBE within the structured saprolite aquifer to the southeast is incomplete.

6.4 Ground Water Analytical Findings

The overall ground-water findings for the bedrock aquifer are presented below. **Figure 4** shows the locations and dissolved phase MTBE and PCE concentrations of potable wells sampled.

- Only a limited number (6) private supply wells reported MTBE concentrations. Four of these six wells

are clustered to the southwest of the Site.

- All 6 detections of MTBE are at low concentrations, less than 1 µg/l and therefore cannot be positively quantified and are represented as "J" values by Accutest Labs.

- The source of the MTBE detected in the water samples from the six potable wells is unknown. MTBE was not detected in the water samples from the five potable wells located between the Site and the potable wells with detectable concentrations of MTBE.

- The sample from the potable well at 721 Walker Road – located to the northwest contained a detectable concentration of MTBE. No wells exist between this well and the Site to confirm the source of the MTBE. However, this direction is up-gradient of the Site and does not coincide with the local water table aquifer flow direction or the predominant bedrock foliation strike direction (N14°E).

- The MTBE concentrations in the structured saprolite unit are elevated in the vicinity of the tank field (MW's-1, 2, 8, and 11). The dissolved phase MTBE in the water table aquifer is not defined to the southeast of the Site. A sharp decline in MTBE concentrations is noted in other directions from the UST area.

- Dissolved phase chlorinated ethene concentrations are scattered throughout the area. Given the wide lateral distribution of these impacts there are most likely multiple unknown sources of chlorinated ethane compounds within the local area. A known historical dry cleaner spill case is documented at the Great Falls Shopping Center to the east/southeast of the Site. These dissolved chlorinated compound impacts are observed in wells located in the water table aquifer both on site and off site as well as in the on site and off site potable wells.

Additional details regarding the ground-water analytical results are presented below.

The water table aquifer dissolved VOCs distribution is shown on **Figure 6**. No BTEX compounds were reported (above the reporting limit) in 9 of the overburden wells during the October 2009 sampling event. MW's-7, 9 and 11 exhibited total BTEX concentrations of 3.3 µg/L, 1.1 µg/L and 27 µg/L, respectively. The MTBE results ranged from 3.1 µg/L (MW-6S) to 226,000 µg/L (MW-8). All monitoring well groundwater analytical results are summarized in **Table 5** and laboratory analytical reports and chain-of-custody documentation are included in **Appendix L**.

7.0 RISK ASSESSMENT

7.1 Sensitive Receptors

EMG, contracted by GES, conducted an assessment of the Site and surrounding area on November 3, 2008. The assessment was performed to determine potential sensitive receptors within the Site area and to determine if potential

pathways exist for the possible migration of hydrocarbons from the Site. The surrounding area consists of mixed commercial properties within 300 meters.

The following sensitive receptors and preferential flow paths were identified during the Site reconnaissance:

- Underground utilities such as electric, gas, water, sewer, product lines, and storm drain lines were identified throughout the Site and in the vicinity of the Site as identified in **Figure 3**.
- An underground parking garage is located adjacent to the Site at 746 Walker Rd;
- There are no residential buildings within 300 feet of the Site;
- Great Falls United Methodist Preschool is located approximately 1,400 feet northwest (up-gradient) of the Site. Great Falls Village Green day school is located approximately 1,200 feet south (side-gradient) of the Site. Great Falls Elementary School is located approximately 1,700 feet northwest (up-gradient) of the Site.
- The Grange Municipal Park is located approximately 700 feet east (side-gradient) of the Site.
- Thirty six potable wells were identified within one-quarter mile of the Site. Twenty of these wells were sampled as a part of the site investigation. Of the remaining wells two were inaccessible and the remaining 14 were determined to be not in use; and
- There are two large storm water ponds located within one mile of the Site as well as Mine Run Lake. Mine Run Lake is located 0.8 miles to the east, one storm water pond is 0.5 miles to the west, and the other storm water pond is 0.7 miles to the southwest.

GES has conducted a site-specific risk assessment in an effort to evaluate the impact from vapor, adsorbed and dissolved phase petroleum hydrocarbons with respect to the subsurface soil and groundwater environment at the Site.

Depth to water at the Site ranges from 28.77 feet bgs in the monitoring well MW-10 to 35.60 feet bgs in monitoring well MW-9. Public water is available in the area and is supplied by Fairfax Water Authority. Fairfax Water Authority obtains water from the Occoquan Reservoir. The Occoquan Reservoir is located greater than five (5) miles south of the Property. The Potomac River is located two (2) miles east and three (3) miles north of the Property. Due to the distance from the Site, the Potomac River Intake is not considered a receptor at risk. Adsorbed phase hydrocarbons in soil do not present a threat to utility conduits as PID readings indicate the highest levels of impacts are found at depths greater than eight feet below grade. The hydrocarbon impacts encountered in the soil and groundwater at the Site were highest immediately down-gradient of the UST system, as indicated in monitoring well MW-8 and monitoring well MW-1.

7.2 Exposure Pathways

Potential exposure pathways include inhalation, ingestion, dermal contact, and food chain transference. Odors of vapor presence has not been reported in the station building or surrounding buildings. The on-site potable well has been taken out of service removing this pathway for exposure. The probability of any pathway completion through utilities such as storm drains, sewers and junction boxes is low for all transport means because current impacts have been identified deeper than typical depths of utilities. The potential risk to general public accessing the local supply wells is extremely low as all wells in the test area that have been resampled have not reported detections of petroleum constituents. The greatest potential risk is for construction workers excavating the Site at depths greater than 4 feet. Excavation of this magnitude is not planned for this Site.

The following information presents the contributing factors necessary for the completion of exposure pathways at this Site.

7.2.1 Air Transport Medium

Impacted soils at the Site are the source for potential exposure pathways by means of air. Volatilization of dissolved or adsorbed hydrocarbons and fugitive dust generation are the mechanisms by which exposure could take place. The potential receptors, as a result of these exposures, are the general public, and/or other on-site workers (subcontractors). The primary exposure route is by inhalation and dermal contact. The probability of pathway completion from dust generation is very low as hydrocarbon-impacted soils are very localized and located at depths of approximately thirty to thirty-five feet below the current land surface. The site is currently paved making it 100 percent impervious. Therefore, these soils would only be exposed through excavation, as surficial soil was not found to be impacted. The probability of an extensive excavation program at this Site is unlikely.

7.2.2 Soil Transport Medium

Site leaching and runoff are the release mechanism for the potential exposure pathway of impacted surface soils at the Site. Currently there are no impacted surface soils. In the absence of any surface soil contamination, the exposure pathway for surface soil is considered incomplete. In addition, the paved surface of the Site precludes direct contact with the subsurface soil. Therefore, this engineering control further mitigates any potential exposure to soil.

7.2.3 Groundwater Transport Medium

Groundwater has been impacted by MTBE from a source that has not been identified. The primary exposure routes are ingestion, dermal contact and inhalation. The probability of pathway completion for inhalation is very low as the Site building is constructed on a slab at grade (limiting the possibility of vapor intrusion.) Groundwater in the area is used for potable purposes, although public water is available in the area. The Site potable well is inactive and an AWS is

available at the station until a permanent connection to Fairfax Water is complete. The future development of the groundwater resources at the Site and the immediate vicinity is not likely as public water will be supplied to the Site and all properties within 1/8 of a mile from the Site. Natural attenuation and degradation mechanisms would likely significantly reduce dissolved hydrocarbon concentrations. Additional delineation is proposed to fully define the groundwater transport mechanism.

7.2.4 Physical and Chemical Properties

The primary chemicals of concern in gasoline are BTEX compounds and MTBE. Of these compounds, only benzene is a known or suspected carcinogen. Benzene is present in a dissolved state in groundwater at monitoring wells MW-1, MW-2, MW-2, MW-7, MW-8 and MW-9. As previously discussed in Section 7.2, the exposure pathways for these compounds include ingestion, inhalation and absorption (dermal contact).

7.3 Risk Based Endpoints

Risk-based endpoints will be evaluated during the development of a corrective action plan for this Site.

8.0 CONCLUSIONS

8.1 Overall Conclusions

GES has completed a Site Characterization Report and Subsurface Investigation at the Exxon Station #2-6140 located at 9901 Georgetown Pike, Great Falls, Virginia. The following is a summary of findings from the Site Characterization Investigation conducted at the Site:

- The surrounding area is comprised of a mixture of commercial buildings with residential development beyond the immediate Site boundaries.
- The current PC# 2010-3028 was opened after a Phase II investigation revealed elevated dissolved concentrations in the onsite potable well and monitoring wells MW-1, MW-2, MW-3 and MW-5.
- The station is currently an active petroleum retail and automobile service station.
- Potable water in the immediate Site area is obtained from either the Fairfax County Water Authority which is supplied by the Corbalis Treatment Plant from the Potomac River, or from individual supply wells.
- Efforts are underway to provide a Fairfax County Water Authority connection to the Site. The station formerly used an on site supply well for potable water, but this has been taken off line and a temporary water supply is being provided via South Jersey Water, Inc.
- Depth to water at the Site ranges from 28.77 fbg in monitoring well MW-10 to 34.51 fbg in monitoring

well MW-3. Based on the October 16, 2009 data, groundwater flows at an average hydraulic gradient of 0.019 feet per foot to the southeast.

- Light, Non-Aqueous Phase Liquids (LNAPL) were not encountered during the investigation activities.
- Monitoring wells MW-1, MW-7, MW-8 and MW-11 are down-gradient from the tankfield and display low dissolved BTEX concentrations. Dissolved MTBE concentrations have been detected in these wells ranging from 10,600 µg/l to 226,000 µg/l. The extent of this dissolved MTBE plume is undefined to the southeast.

9.0 FUTURE ACTIVITIES

Future activities expected to be conducted by ExxonMobil going forward are listed below. If these activities are modified, then a proposed plan will be submitted for review and comment by the VADEQ.

The currently planned future activities area as follows:

- Quarterly sampling of all monitoring wells and the on-site potable supply well;
- Continuation of Deer Park accounts for the six properties with petroleum constituent detections;
- Conduct additional groundwater delineation east/southeast of Site;
- Complete necessary remediation feasibility testing, pre-design and design activities in preparation for implementation of a Corrective Action Plan (CAP). This CAP will be submitted as a stand-alone document;
- Implement and monitor performance of the CAP, and;
- Respond to VADEQ questions and/or comments regarding this report and the stand-alone CAP.

Future activities expected to be conducted by the VADEQ going forward are listed below.

- Quarterly sampling of the six area potable wells with petroleum constituents detected; and
- Annual sampling of study area wells.

10.0 REFERENCES

Drake, Avery Ala Jr., and Lee, K.Y., 1989; Geologic Map of the Vienna Quadrangle, Fairfax County, Virginia, and Montgomery County, Maryland

Drake, Avery Ala Jr., Southworth, Scott, and Lee, K.Y., 1999; Geologic Map of the Seneca Quadrangle, Montgomery County, Maryland, and Fairfax and Loudoun Counties, Virginia

TABLES

Table 1. Area Potable Well Sampling Summary
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA 22066

Sample ID	Address	Date	Lab Report Date	Lab ID	Sample Type	Sampled By	MTBE (µg/L)	Chloroform (µg/L)	PCE (µg/L)
83140026-695-BCKS-LN	695 Bucks Lane	9/9/2009	9/18/2009	JA27611-1		GES			
		9/9/2009	9/18/2009	JA27611-3	DUP	GES			
83140025-696-BCKS-LN	696 Bucks Lane	8/20/2009	8/26/2009	JA26215-2		GES			
		8/20/2009	8/26/2009	JA26215-5	DUP	GES			
131030008-10005-CLMBN-ST	10005 Columbine Street	8/22/2009	8/28/2009	JA26329-1		GES			
131030047-804-CNSTLN-DR	804 Constellation Drive	8/21/2009	8/26/2009	JA26275-1		GES			
		8/21/2009	8/26/2009	JA26275-2	DUP	GES			
131030050-805-CNSTLN-DR	805 Constellation Drive	8/20/2009	8/26/2009	JA26215-8	DUP	GES			
		8/20/2009	8/26/2009	JA26215-10		GES			
131030046-808-CNSTLN-DR	808 Constellation Drive	8/21/2009	8/26/2009	JA26275-3		GES	0.29 J	0.31 J	
		8/31/2009	9/4/2009	JA26837-2		GES	0.34 J		
		8/31/2009	9/4/2009	JA26837-4	DUP	GES			
		8/31/2009	Unknown	09083105		C			
131030051-809-CNSTLN-DR	809 Constellation Drive	10/13/2009	10/19/2009	JA30340-1	DUP	GES	0.20 J	0.16 J	
		10/13/2009	10/19/2009	JA30340-2		GES	0.19 J	0.16 J	
		10/21/2009	Unknown	09102157		C			
131030053-817-CNSTLN-DR	817 Constellation Drive	9/3/2009	9/10/2009	JA27336-4		GES			
83140013-613-DRFLDPND-CT	613 Deerfield Pond Court	8/20/2009	8/26/2009	JA26215-4		GES			0.30 J
		8/31/2009	Unknown	09083110		C			
83130012-614-DRFLDPND-CT	614 Deerfield Pond Court	9/10/2009	9/15/2009	JA27648-1		GES			2.4
		9/10/2009	9/15/2009	JA27648-2	DUP	GES			2.3
		9/21/2009	Unknown	09092103		C			2.4
		9/21/2009	Unknown	09092104		C			
131010015-9818-GRGTWN-PK	9818 Georgetown Pike	8/28/2009	9/3/2009	JA26811-1		GES		4.9	
		8/28/2009	9/3/2009	JA26811-3	DUP	GES		5.1	
122120002-804-GLDNRW-ST	804 Golden Arrow Street	8/31/2009	9/4/2009	JA26837-3		GES			
131030009-805-GLDNRW-ST	805 Golden Arrow Street	9/3/2009	9/10/2009	JA27336-3		GES			
122120003-808-GLDNRW-ST	808 Golden Arrow Street	8/20/2009	8/26/2009	JA26215-11	DUP	GES	0.29 J		
		8/20/2009	8/26/2009	JA26215-12		GES	0.27 J		
		8/31/2009	9/4/2009	JA26837-1		GES			
		8/31/2009	Unknown	09083107		C			

Table 1. Area Potable Well Sampling Summary
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA 22066

Sample ID	Address	Date	Lab Report Date	Lab ID	Sample Type	Sampled By	MTBE (µg/L)	Chloroform (µg/L)	PCE (µg/L)
131030010-809-GLDNRW-ST	809 Golden Arrow Street	8/20/2009	8/26/2009	JA26215-13		GES	0.41 J		
131010016-700-INSBRK-AV	700 Innsbruck Avenue	8/20/2009	8/26/2009	JA26215-1		GES			
131010017-706-INSBRK-AV	706 Innsbruck Avenue	9/9/2009	9/18/2009	JA27611-2		GES		3.1	
122010018-716-WLKR-RD	716 Walker Road	8/26/2009	9/1/2009	JA26642-1		GES	0.60 J		
		9/3/2009	9/10/2009	JA27336-1		GES			
		9/3/2009	9/10/2009	JA27336-6	DUP	GES			
		9/3/2009	Unknown	09090401		C			
131020001A1-719-WLKR-RD	719 Walker Road	9/3/2009	9/10/2009	JA27336-5		GES		2.7	
131020001A2-721-WLKR-RD	721 Walker Road	8/25/2009	8/31/2009	JA26561-1		GES	0.56 J	6.3	0.53 J
		8/25/2009	8/31/2009	JA26561-2	DUP	GES	0.62 J	6.5	0.61 J
		9/3/2009	9/10/2009	JA27336-2		GES		5.9	
		9/3/2009	Unknown	09090404		C			
		9/3/2009	Unknown	09090405		C		5.8	

This table represents only detected compounds.
NOTES:

	= Indicates non-detect
µg/L	= Micrograms per Liter
GES	= Groundwater and Environmental Services, Inc.
C	= Culligan
DUP	= Duplicate
J	= Indicates an estimated value between the reporting limit and the method detection limit
MTBE	= Methyl Tertiary Butyl Ether
PCE	= Tetrachloroethylene

Table 2. Monitoring Well Construction Details
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA 22066

Monitoring Well	Installation Date	Well Type	Well Diameter (in)	Top of Casing Elevation (ft)	Stick-up	Screen Top (Depth from TOC) (ft)	Screen Bottom (Depth from TOC) (ft)	Screen Top Elevation (ft)
MW-1	7/20/2009	Monitoring	2	328.99	Flush	20.00	35.00	308.99
MW-2	7/21/2009	Monitoring	2	332.05	Flush	25.00	40.00	307.05
MW-3	7/22/2009	Monitoring	2	333.98	Flush	25.00	35.00	308.98
MW-5	7/22/2009	Monitoring	2	332.35	Flush	30.00	40.00	302.35
MW-6S	9/11/2009	Monitoring	4	321.85	Flush	20.00	35.00	301.85
MW-6D	9/11/2009	Monitoring	6	323.09	Flush	70.00	120.00	253.09
MW-7	10/16/2009	Monitoring	2	327.96	Flush	15.00	40.00	312.96
MW-8	10/8/2009	Monitoring	2	330.54	Flush	25.00	45.00	305.54
MW-9	10/9/2009	Monitoring	2	333.46	Flush	25.00	45.00	308.46
MW-10	10/12/2009	Monitoring	2	324.17	Flush	10.00	40.00	314.17
MW-11	10/14/2009	Monitoring	2	329.64	Flush	10.00	40.00	319.64

NOTES:
Vertical datum is NAVD 88
ft = Feet
GS = Ground Surface
in = Inches
TOC = Top of Casing

Table 2. Monitoring Well Construction Details
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA 22066

Monitoring Well	Installation Date	Well Type	Well Diameter (in)	Screen Bottom Elevation (ft)	Well Bottom (Depth from GS) (ft)	Well Bottom Elevation (ft)	Comments
MW-1	7/20/2009	Monitoring	2	293.99	37.00	291.99	
MW-2	7/21/2009	Monitoring	2	292.05	42.00	290.05	
MW-3	7/22/2009	Monitoring	2	298.98	37.00	296.98	
MW-5	7/22/2009	Monitoring	2	292.35	42.00	290.35	
MW-6S	9/11/2009	Monitoring	4	286.85	35.00	286.85	
MW-6D	9/11/2009	Monitoring	6	203.09	120.00	203.09	No screen, open bore hole after 70 feet
MW-7	10/16/2009	Monitoring	2	287.96	40.00	287.96	
MW-8	10/8/2009	Monitoring	2	285.54	45.00	285.54	
MW-9	10/9/2009	Monitoring	2	288.46	45.00	288.46	
MW-10	10/12/2009	Monitoring	2	284.17	40.00	284.17	
MW-11	10/14/2009	Monitoring	2	289.64	40.00	289.64	

NOTES:
Vertical datum is NAVD 88
ft = Feet
GS = Ground Surface
in = Inches
TOC = Top of Casing

Table 3. Summary of Soil Analytical Results
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA 22066

Monitoring Well	Sample Interval (ft)	Date	Lab ID	Percent solids (%)	Benzene (µg/Kg)	Toluene (µg/Kg)	Ethylbenzene (µg/Kg)	Total Xylenes (µg/Kg)	MTBE (µg/Kg)	TPH-GRO (C6-C10) (mg/Kg)	DIPE (µg/Kg)	TAME (µg/Kg)	Tertiary Butyl Alcohol (µg/Kg)	Methylene chloride (µg/Kg)
MW-1	0 - 0	7/21/2009	M84567-1	91.9					7,060	5.81 J	-	-	-	
MW-2	0 - 0	7/21/2009	M84567-2	83.9					14,200	8.45	-	-	-	
MW-3	0 - 0	7/22/2009	M84567-3	70.0							-	-	-	
MW-5	0 - 0	7/22/2009	M84567-4	82.3							-	-	-	
MW-6S	22 - 24	9/11/2009	JA27895-1	76.7						-	-	-	-	
MW-7	28 - 30	10/6/2009	JA30357-1	82.5					3.1	-				
MW-8	36 - 38	10/8/2009	JA30357-2	81.4					3,000	-	8.9	13.4	6,240	
MW-9	12 - 14	10/9/2009	JA30357-3	83.3						-				
MW-10	8 - 10	10/12/2009	JA30357-4	84.5						-				
MW-11	32 - 34	10/14/2009	JA30722-1	78.4	-	-	-	-	-	18.4	-	-	-	-
	32 - 34	10/14/2009	JA30722-1R	-					9,600	-	1.7 J	21.2	39,000	11.3 J
	38 - 40	10/14/2009	JA30722-2	75.5	-	-	-	-	-		-	-	-	-
	38 - 40	10/14/2009	JA30722-2R	-					1,940	-	2.4 J	7.4 J	8,770	5.6 J

This table represents only detected compounds.

NOTES:

[ ]	= Indicates non-detect
-	= Indicates no data available
µg/Kg	= Micrograms per Kilogram
mg/Kg	= Milligrams per Kilogram
DIPE	= Diisopropyl Ether
ft	= Feet
TPH-GRO	= Total Petroleum Hydrocarbons - Gasoline Range Organics
J	= Indicates an estimated value between the reporting limit and the method detection limit
MTBE	= Methyl Tertiary Butyl Ether
TAME	= Tertiary Amyl Methyl Ether

Table 4. Summary of Groundwater Results
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA 22066

Monitoring Well	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Lab ID	Sample Depth (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TPH-DRO (C10-C28) (mg/L)	TPH-GRO (C6-C10) (mg/L)	Chloroform (µg/L)	DIPE (µg/L)
MW-1	7/24/2009	-	-	-	M84626-1		13.3		0.53 J	24	193,000	0.354	105	-	-
	8/18/2009	-	-	-	JA25922-1						138,000	0.182	65.7	-	-
	10/15/2009	328.99	31.88	297.11	JA30574-1						121,000	-	125	-	-
	10/15/2009	328.99	31.88	297.11	JA30574-1R						139,000	-	-		4,070
MW-2	7/24/2009	-	-	-	M84626-2		70.2	8	1	131	107,000	0.393	59	-	-
	8/18/2009	-	-	-	JA25922-2						87,100	0.145	53.9	-	-
	10/15/2009	332.05	34.41	297.64	JA30574-2						104,000	-	117	-	-
	10/15/2009	332.05	34.41	297.64	JA30574-2R						122,000	-	-		6,130
MW-3	7/24/2009	-	-	-	M84626-3						5.7	-	-	-	-
	10/15/2009	333.98	34.51	299.47	DRY		-	-	-	-	-	-	-	-	-
MW-5	7/24/2009	-	-	-	M84626-4						1.3	0.448		-	-
	8/18/2009	-	-	-	JA25922-3						0.48 J			-	-
	10/15/2009	332.35	32.51	299.84	JA30574-3						11.3	-		-	-
	10/15/2009	332.35	32.51	299.84	JA30574-3R						11.4	-	-		0.46 J
MW-6S	9/24/2009	-	-	-	JA28861-3						2.8	-	-	0.38 J	2.1 J
	10/15/2009	321.85	23.35	298.50	JA30574-4						3.1	-		-	-
	10/15/2009	321.85	23.35	298.50	JA30574-4R						2.8	-	-	0.36 J	1.3 J
MW-6D	9/24/2009	-	-	-	JA28861-1	75					3	-	-	0.89 J	0.56 J
	9/24/2009	-	-	-	JA28861-2	110					3	-	-	0.99 J	0.57 J
	10/15/2009	323.09	26.69	296.40	JA30574-9	75					3	-		-	-
	10/15/2009	323.09	26.69	296.40	JA30574-9R	75					2.8	-	-	1.1	0.49 J
	10/15/2009	323.09	26.69	296.40	JA30574-10	110					3	-		-	-
	10/15/2009	323.09	26.69	296.40	JA30574-10R	110					2.8	-	-	1.1	0.50 J
MW-7	10/15/2009	327.96	31.21	296.75	JA30574-5		3.3 J				4,720	-	10.5	-	-
	10/15/2009	327.96	31.21	296.75	JA30574-5R		2.7 J				10,600	-	-		232

Table 4. Summary of Groundwater Results
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA 22066

Monitoring Well	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Lab ID	Sample Depth (ft)	TAME (µg/L)	Tertiary Butyl Alcohol (µg/L)	Chloromethane (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)
MW-1	7/24/2009	-	-	-	M84626-1		-	-	-	-	-	-	-
	8/18/2009	-	-	-	JA25922-1		-	-	-	-	-	-	-
	10/15/2009	328.99	31.88	297.11	JA30574-1		-	-	-	-	-	-	-
	10/15/2009	328.99	31.88	297.11	JA30574-1R		2,130	47,000					
MW-2	7/24/2009	-	-	-	M84626-2		-	-	-	-	-	-	-
	8/18/2009	-	-	-	JA25922-2		-	-	-	-	-	-	-
	10/15/2009	332.05	34.41	297.64	JA30574-2		-	-	-	-	-	-	-
	10/15/2009	332.05	34.41	297.64	JA30574-2R		2,420						
MW-3	7/24/2009	-	-	-	M84626-3		-	-	-	-	-	-	-
	10/15/2009	333.98	34.51	299.47	DRY		-	-	-	-	-	-	-
MW-5	7/24/2009	-	-	-	M84626-4		-	-	-	-	-	-	-
	8/18/2009	-	-	-	JA25922-3		-	-	-	-	-	-	-
	10/15/2009	332.35	32.51	299.84	JA30574-3		-	-	-	-	-	-	-
	10/15/2009	332.35	32.51	299.84	JA30574-3R					1.9			
MW-6S	9/24/2009	-	-	-	JA28861-3					2.1	0.38 J	13.8	
	10/15/2009	321.85	23.35	298.50	JA30574-4		-	-	-	-	-	-	-
	10/15/2009	321.85	23.35	298.50	JA30574-4R					2.3	0.62 J	9.2	
MW-6D	9/24/2009	-	-	-	JA28861-1	75				3.2	1.3	87.4	0.35 J
	9/24/2009	-	-	-	JA28861-2	110			0.98 J	3.4	1.4	90.8	0.37 J
	10/15/2009	323.09	26.69	296.40	JA30574-9	75	-	-	-	-	-	-	-
	10/15/2009	323.09	26.69	296.40	JA30574-9R	75			1.4	5.7	1.6	80.5	
	10/15/2009	323.09	26.69	296.40	JA30574-10	110	-	-	-	-	-	-	-
	10/15/2009	323.09	26.69	296.40	JA30574-10R	110			0.70 J	5.4	1.7	84.2	
MW-7	10/15/2009	327.96	31.21	296.75	JA30574-5		-	-	-	-	-	-	-
	10/15/2009	327.96	31.21	296.75	JA30574-5R		217	2,650					

Table 4. Summary of Groundwater Results
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA 22066

Monitoring Well	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Lab ID	Sample Depth (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TPH-DRO (C10-C28) (mg/L)	TPH-GRO (C6-C10) (mg/L)	Chloroform (µg/L)	DIPE (µg/L)
MW-8	10/15/2009	330.54	34.01	296.53	JA30574-6		72.3 J			41.3 J	203,000	-	207	-	-
	10/15/2009	330.54	34.01	296.53	JA30574-6R						226,000	-	-		6,250
MW-9	10/15/2009	333.46	35.60	297.86	JA30574-7				0.35 J	1.1	62.9	-	0.43	-	-
	10/15/2009	333.46	35.60	297.86	JA30574-7R			0.33 J		0.38 J	64.7	-	-	1.3	125
MW-10	10/15/2009	324.17	28.77	295.40	JA30574-8						10.4	-		-	-
	10/15/2009	324.17	28.77	295.40	JA30574-8R						10.3	-	-	0.27 J	
MW-11	10/15/2009	329.64	32.16	297.48	-		-	-	-	-	-	-	-	-	-
	10/15/2009	329.64	32.16	297.48	-		-	-	-	-	-	-	-	-	-
	10/16/2009	-	-	-	JA30722-3		16.1			6.6	28,100	-	35.6	-	-
	10/16/2009	-	-	-	JA30722-3R		15.3			10.9	38,400	-	-		1,290

This table represents only detected compounds.
NOTES:
Vertical datum is NAVD 88.

[ ]	= Indicates non-detect
-	= Indicates no data available
µg/L	= Micrograms per Liter
mg/L	= Milligrams per Liter
DCE	= Dichloroethylene
DIPE	= Diisopropyl Ether
DRY	= Insufficient water to retain a sample for laboratory analysis
ft	= Feet
GW	= Groundwater
J	= Indicates an estimated value between the reporting limit and the method detection limit
MTBE	= Methyl Tertiary Butyl Ether
PCE	= Tetrachloroethylene
TAME	= Tertiary Amyl Methyl Ether
TCE	= Trichloroethylene
TPH-DRO	= Total Petroleum Hydrocarbons - Diesel Range Organics
TPH-GRO	= Total Petroleum Hydrocarbons - Gasoline Range Organics

Table 4. Summary of Groundwater Results
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA 22066

Monitoring Well	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	GW Elevation (ft)	Lab ID	Sample Depth (ft)	TAME (µg/L)	Tertiary Butyl Alcohol (µg/L)	Chloromethane (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)
MW-8	10/15/2009	330.54	34.01	296.53	JA30574-6		-	-	-	-	-	-	-
	10/15/2009	330.54	34.01	296.53	JA30574-6R		3,080	30,800					
MW-9	10/15/2009	333.46	35.60	297.86	JA30574-7		-	-	-	-	-	-	-
	10/15/2009	333.46	35.60	297.86	JA30574-7R		2.9 J			7	5.8	297	2.3
MW-10	10/15/2009	324.17	28.77	295.40	JA30574-8		-	-	-	-	-	-	-
	10/15/2009	324.17	28.77	295.40	JA30574-8R					1.6	0.73 J	22	
MW-11	10/15/2009	329.64	32.16	297.48	-		-	-	-	-	-	-	-
	10/15/2009	329.64	32.16	297.48	-		-	-	-	-	-	-	-
	10/16/2009	-	-	-	JA30722-3		-	-	-	-	-	-	-
	10/16/2009	-	-	-	JA30722-3R		464	23,300				5.9 J	

This table represents only detected compounds.
NOTES:
Vertical datum is NAVD 88.

[ ]	= Indicates non-detect
-	= Indicates no data available
µg/L	= Micrograms per Liter
mg/L	= Milligrams per Liter
DCE	= Dichloroethylene
DIPE	= Diisopropyl Ether
DRY	= Insufficient water to retain a sample for laboratory analysis
ft	= Feet
GW	= Groundwater
J	= Indicates an estimated value between the reporting limit and the method detection limit
MTBE	= Methyl Tertiary Butyl Ether
PCE	= Tetrachloroethylene
TAME	= Tertiary Amyl Methyl Ether
TCE	= Trichloroethylene
TPH-DRO	= Total Petroleum Hydrocarbons - Diesel Range Organics
TPH-GRO	= Total Petroleum Hydrocarbons - Gasoline Range Organics

Table 5. On-Site Potable Well Sampling Summary
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA 22066

Monitoring Well	Date	Lab ID	Sample Location/ Depth (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TPH-GRO (C6-C10) (mg/L)	Naphthalene (µg/L)
26140 POTABLE WELL	7/21/2009	M84567-6	Men's Restroom	5.5				10,400	-	
	8/11/2009	M85077-1	Men's Restroom					7,540	-	
	8/11/2009	M85077-2	Coffee Machine	2.6			1	5,930	-	
	8/17/2009	JA25815-1		0.76			0.46 J	1,320	-	0.37 J
	10/16/2009	JA30722-4	65	8			8.4	2,520	1.87	-
	10/16/2009	JA30722-4R	65	4.9			2.4	2,980	-	-
	10/16/2009	JA30722-5	105	5.8			4.1	1,180	3.71	-
	10/16/2009	JA30722-5R	105	7.2			5.9	1,270	-	-

This table represents only detected compounds.

NOTES:

	= Indicates non-detect
µg/L	= Micrograms per Liter
mg/L	= Milligrams per Liter
DCA	= Dichloroethane
DCE	= Dichloroethylene
DIPE	= Diisopropyl Ether
ft	= Feet
J	= Indicates an estimated value between the reporting limit and the method detection limit
MTBE	= Methyl Tertiary Butyl Ether
PCE	= Tetrachloroethylene
TAME	= Tertiary Amyl Methyl Ether
TCE	= Trichloroethylene
TPH-GRO	= Total Petroleum Hydrocarbons - Gasoline Range Organics

Table 5. On-Site Potable Well Sampling Summary
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA 22066

Monitoring Well	Date	Lab ID	Sample Location/ Depth (ft)	DIPE (µg/L)	TAME (µg/L)	Tertiary Butyl Alcohol (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,2-DCA (µg/L)	Chloroform (µg/L)
26140 POTABLE WELL	7/21/2009	M84567-6	Men's Restroom	-	-	-			2.5
	8/11/2009	M85077-1	Men's Restroom	-	-	-			
	8/11/2009	M85077-2	Coffee Machine	-	-	-			1.6
	8/17/2009	JA25815-1		148	36.8	80.9	0.92	0.49 J	1.1
	10/16/2009	JA30722-4	65	-	-	-	-	-	-
	10/16/2009	JA30722-4R	65	134	75.7	543	-		1.7 J
	10/16/2009	JA30722-5	105	-	-	-	-	-	-
	10/16/2009	JA30722-5R	105	186	71.6	181	-		1.2 J

This table represents only detected compounds.

NOTES:

	= Indicates non-detect
µg/L	= Micrograms per Liter
mg/L	= Milligrams per Liter
DCA	= Dichloroethane
DCE	= Dichloroethylene
DIPE	= Diisopropyl Ether
ft	= Feet
J	= Indicates an estimated value between the reporting limit and the method detection limit
MTBE	= Methyl Tertiary Butyl Ether
PCE	= Tetrachloroethylene
TAME	= Tertiary Amyl Methyl Ether
TCE	= Trichloroethylene
TPH-GRO	= Total Petroleum Hydrocarbons - Gasoline Range Organics

Table 5. On-Site Potable Well Sampling Summary
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA 22066

Monitoring Well	Date	Lab ID	Sample Location/ Depth (ft)	Chloromethane (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)
26140 POTABLE WELL	7/21/2009	M84567-6	Men's Restroom		14.4	13.3	635	3.2
	8/11/2009	M85077-1	Men's Restroom				616	
	8/11/2009	M85077-2	Coffee Machine		8.5	7.8	397	1.7
	8/17/2009	JA25815-1			4.9	3.4	138	0.77
	10/16/2009	JA30722-4	65	-	-	-	-	-
	10/16/2009	JA30722-4R	65		5.6	6.4	399	2.5
	10/16/2009	JA30722-5	105	-	-	-	-	-
	10/16/2009	JA30722-5R	105	1.2 J	3.6	2.7	179	0.95 J

This table represents only detected compounds.

NOTES:

	= Indicates non-detect
µg/L	= Micrograms per Liter
mg/L	= Milligrams per Liter
DCA	= Dichloroethane
DCE	= Dichloroethylene
DIPE	= Diisopropyl Ether
ft	= Feet
J	= Indicates an estimated value between the reporting limit and the method detection limit
MTBE	= Methyl Tertiary Butyl Ether
PCE	= Tetrachloroethylene
TAME	= Tertiary Amyl Methyl Ether
TCE	= Trichloroethylene
TPH-GRO	= Total Petroleum Hydrocarbons - Gasoline Range Organics

Table 6. Vapor Monitoring Point Construction Details
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA 22066

Monitoring Well	Installation Date	Well Type	Well Diameter (in)	Top of Casing Elevation (ft)	Stick-up (ft)	Screen Top (Depth from TOC) (ft)	Screen Bottom (Depth from TOC) (ft)	Screen Top Elevation (ft)
VP-1	10/6/2009	Vapor	0.25	331.62	Flush	7.25	7.75	324.37
VP-2S	10/6/2009	Vapor	0.25	331.31	Flush	3.25	3.75	328.06
VP-2D	10/2/2009	Vapor	0.25	331.31	Flush	7.25	7.75	324.06
VP-3	10/2/2009	Vapor	0.25	327.32	Flush	7.25	7.75	320.07

NOTES:
Vertical datum is NAVD 88
ft = Feet
GS = Ground Surface
in = Inches
TOC = Top of Casing

Table 6. Vapor Monitoring Point Construction Details
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA 22066

Monitoring Well	Installation Date	Well Type	Well Diameter (in)	Screen Bottom Elevation (ft)	Well Bottom (Depth from GS) (ft)	Well Bottom Elevation (ft)	Comments
VP-1	10/6/2009	Vapor	0.25	323.87	8.00	323.62	
VP-2S	10/6/2009	Vapor	0.25	327.56	4.00	327.31	
VP-2D	10/2/2009	Vapor	0.25	323.56	8.00	323.31	
VP-3	10/2/2009	Vapor	0.25	319.57	8.00	319.32	

NOTES:
Vertical datum is NAVD 88
ft = Feet
GS = Ground Surface
in = Inches
TOC = Top of Casing

Table 7. SUMMA Analytical Results for Vapor Monitoring
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA

Monitoring Well	Date	Lab ID	Sample Type	Benzene ($\mu g/m^3$)	Toluene ($\mu g/m^3$)	Ethylbenzene ($\mu g/m^3$)	Total Xylenes ($\mu g/m^3$)	MTBE ($\mu g/m^3$)	Acetone ($\mu g/m^3$)	Carbon disulfide ($\mu g/m^3$)
VP-1	10/15/2009	JA30639-1		2.7	9.8	4.3	15	115	38.7	
VP-1	10/15/2009	JA30639-2	DUP	1.5 J	6.4	1.6 J	6.5	115	39.2	13
VP-2D	10/15/2009	JA30639-4		984				113,000		
VP-2S	10/15/2009	JA30639-3		12	4.1	4.1	16	12,300		
VP-3	10/15/2009	JA30639-5		5.1	9.4		4.1	9.7	45.1	

This table represents only detected compounds.

NOTES:

	= Indicates non-detect
$\mu g/m^3$	= Micrograms per Cubic Meter
DCA	= Dichloroethane
DCE	= Dichloroethylene
DUP	= Duplicate
J	= Indicates an estimated value between the reporting limit and the method detection limit
MTBE	= Methyl Tertiary Butyl Ether
PCE	= Tetrachloroethylene
TCE	= Trichloroethylene

Table 7. SUMMA Analytical Results for Vapor Monitoring
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA

Monitoring Well	Date	Lab ID	Sample Type	Chloroform ($\mu g/m^3$)	Cyclohexane ($\mu g/m^3$)	Dichlorodifluoromethane ($\mu g/m^3$)	cis-1,2-DCE ($\mu g/m^3$)	trans-1,2-DCE ($\mu g/m^3$)	Ethanol ($\mu g/m^3$)
VP-1	10/15/2009	JA30639-1		2.3 J		16	20	3.7	44.5
VP-1	10/15/2009	JA30639-2	DUP	2.6 J	11	9.9	27	5.2	134
VP-2D	10/15/2009	JA30639-4			27,200		4,480		
VP-2S	10/15/2009	JA30639-3			423	3.9 J	36		
VP-3	10/15/2009	JA30639-5		2.8 J		5.4			39

This table represents only detected compounds.

NOTES:

	= Indicates non-detect
$\mu g/m^3$	= Micrograms per Cubic Meter
DCA	= Dichloroethane
DCE	= Dichloroethylene
DUP	= Duplicate
J	= Indicates an estimated value between the reporting limit and the method detection limit
MTBE	= Methyl Tertiary Butyl Ether
PCE	= Tetrachloroethylene
TCE	= Trichloroethylene

Table 7. SUMMA Analytical Results for Vapor Monitoring
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA

Monitoring Well	Date	Lab ID	Sample Type	Heptane ($\mu g/m^3$)	Hexane ($\mu g/m^3$)	Isopropyl Alcohol ($\mu g/m^3$)	Methylene chloride ($\mu g/m^3$)	Methyl ethyl ketone ($\mu g/m^3$)	Tertiary Butyl Alcohol ($\mu g/m^3$)	PCE ($\mu g/m^3$)
VP-1	10/15/2009	JA30639-1		4.9	19	22	2.8	4.7	12	540
VP-1	10/15/2009	JA30639-2	DUP	2.5 J	11			4.1	6.7	854
VP-2D	10/15/2009	JA30639-4		6,930	253,000					
VP-2S	10/15/2009	JA30639-3		151	2,240				500	14
VP-3	10/15/2009	JA30639-5			11	19		5	8.2	97.6

This table represents only detected compounds.

NOTES:

	= Indicates non-detect
$\mu g/m^3$	= Micrograms per Cubic Meter
DCA	= Dichloroethane
DCE	= Dichloroethylene
DUP	= Duplicate
J	= Indicates an estimated value between the reporting limit and the method detection limit
MTBE	= Methyl Tertiary Butyl Ether
PCE	= Tetrachloroethylene
TCE	= Trichloroethylene

Table 7. SUMMA Analytical Results for Vapor Monitoring
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA

Monitoring Well	Date	Lab ID	Sample Type	Tetrahydrofuran ($\mu g/m^3$)	TCE ($\mu g/m^3$)	Trichlorofluoromethane ($\mu g/m^3$)	1,2,4-Trimethylbenzene ($\mu g/m^3$)	2,2,4-Trimethylpentane ($\mu g/m^3$)
VP-1	10/15/2009	JA30639-1			3.3	20		379
VP-1	10/15/2009	JA30639-2	DUP		4	19	2.1 J	260
VP-2D	10/15/2009	JA30639-4						1,190,000
VP-2S	10/15/2009	JA30639-3						45,600
VP-3	10/15/2009	JA30639-5		2.7		3.9 J		66.8

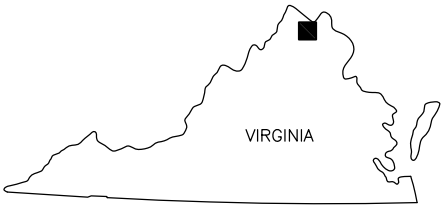
This table represents only detected compounds.

NOTES:

	= Indicates non-detect
$\mu g/m^3$	= Micrograms per Cubic Meter
DCA	= Dichloroethane
DCE	= Dichloroethylene
DUP	= Duplicate
J	= Indicates an estimated value between the reporting limit and the method detection limit
MTBE	= Methyl Tertiary Butyl Ether
PCE	= Tetrachloroethylene
TCE	= Trichloroethylene

FIGURES

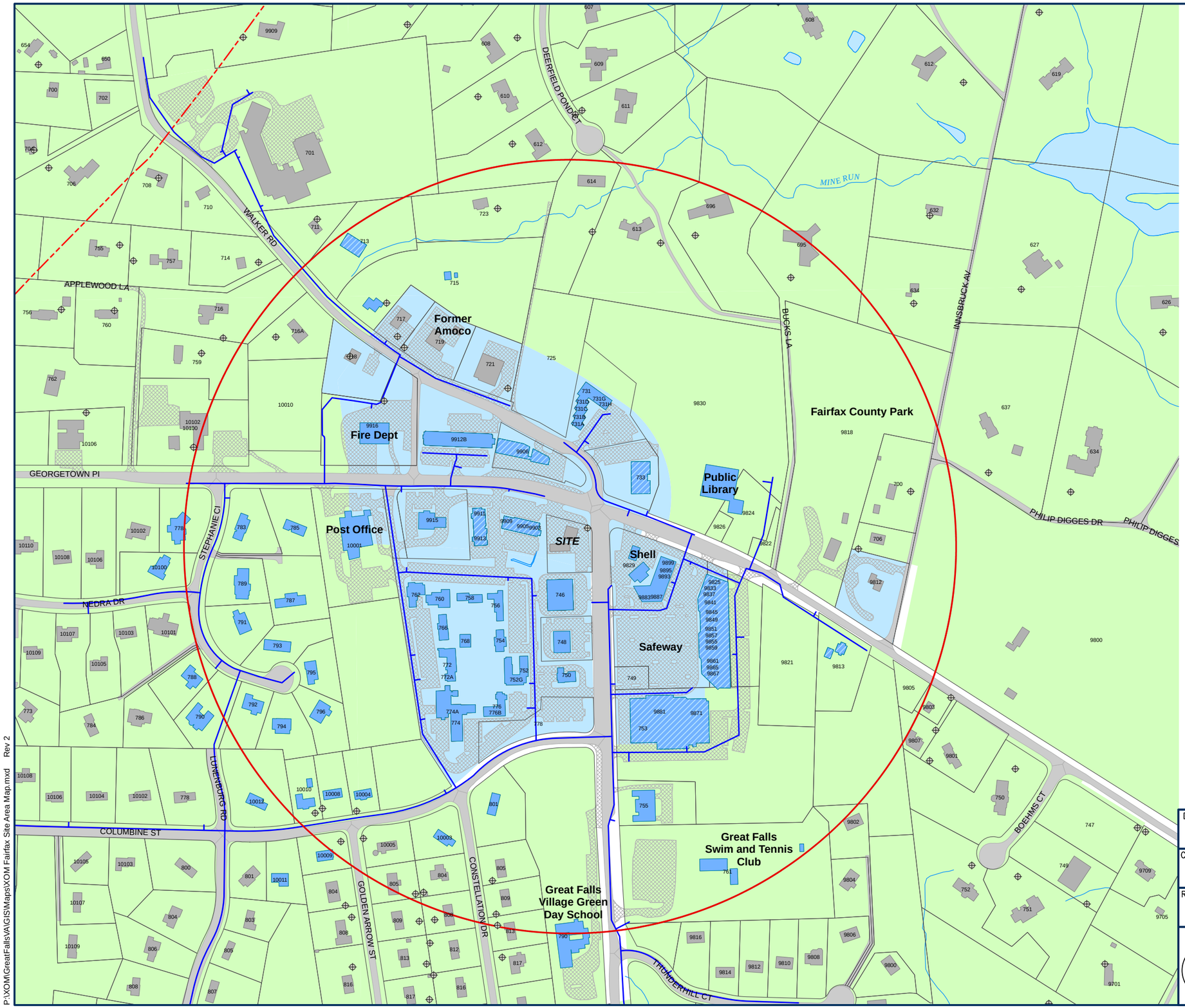
SOURCE: USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLE 1982
VIENNA, VIRGINIA
CONTOUR INTERVAL = 10'



QUADRANGLE LOCATION

DRAFTED BY: E.V. (N.J.)	SITE LOCATION MAP
CHECKED BY:	EXXONMOBIL CORPORATION EXXON STATION #2-6140 9901 GEORGETOWN PIKE GREAT FALLS, VIRGINIA
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 2142 PRIEST BRIDGE COURT, SUITE 1, CROFTON, MD 21114

SCALE IN FEET	DATE	FIGURE
0 — 2000	9-14-09	1



Legend

- Potable Wells from Fairfax County Health Dept.
- 0.25 Mile Radius
- Public Water Line
- Gas Pipeline
- Building with Public Water Verified by Fairfax County Water Authority
- Building with Public Water per GES to be Verified by Fairfax County Water Authority
- Building
- Parcel Boundary
- Paved Road
- Parking Lot
- Stream
- Water Body

Zoning

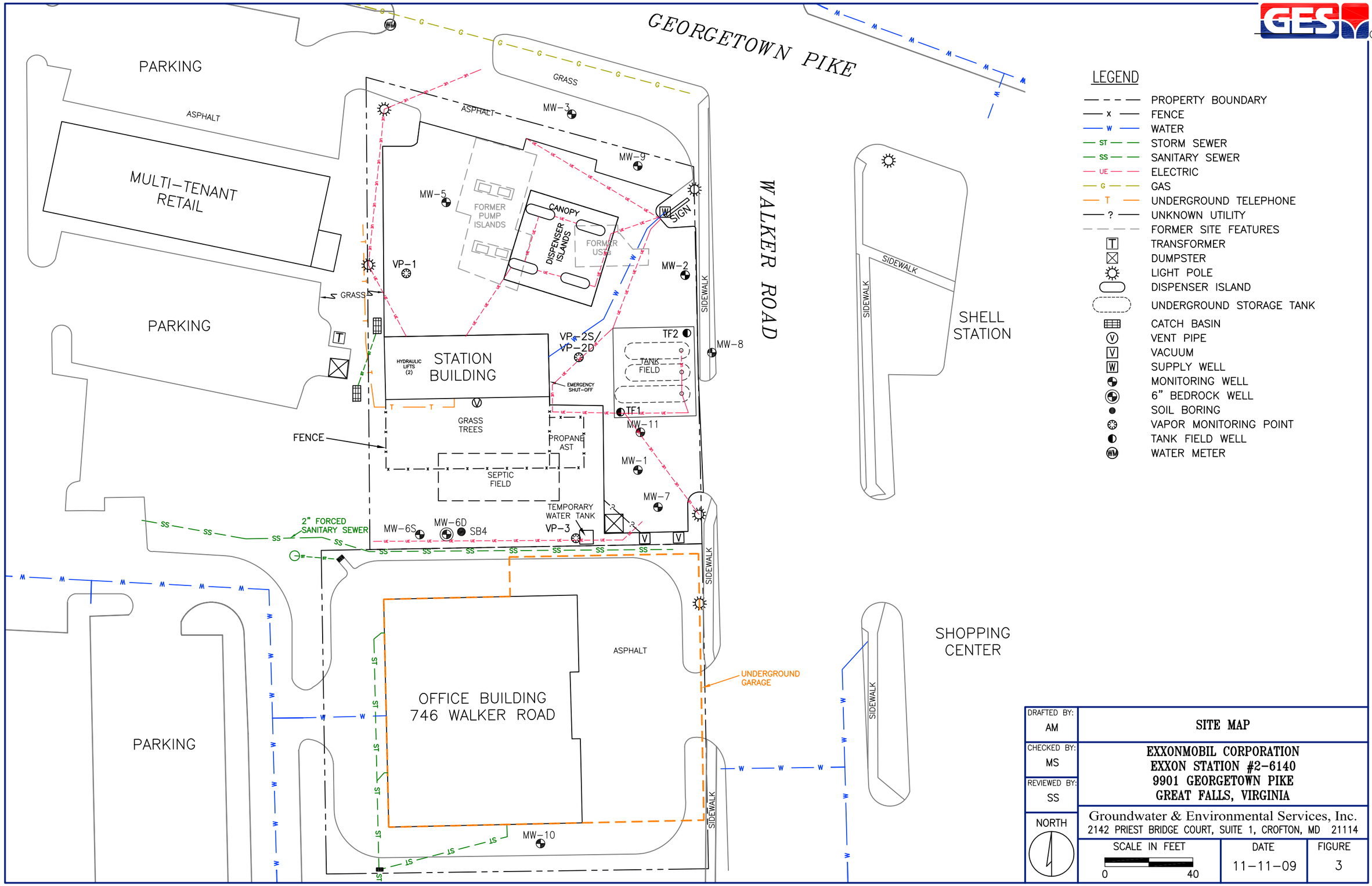
- Commercial
- Residential

Base Map Sources:

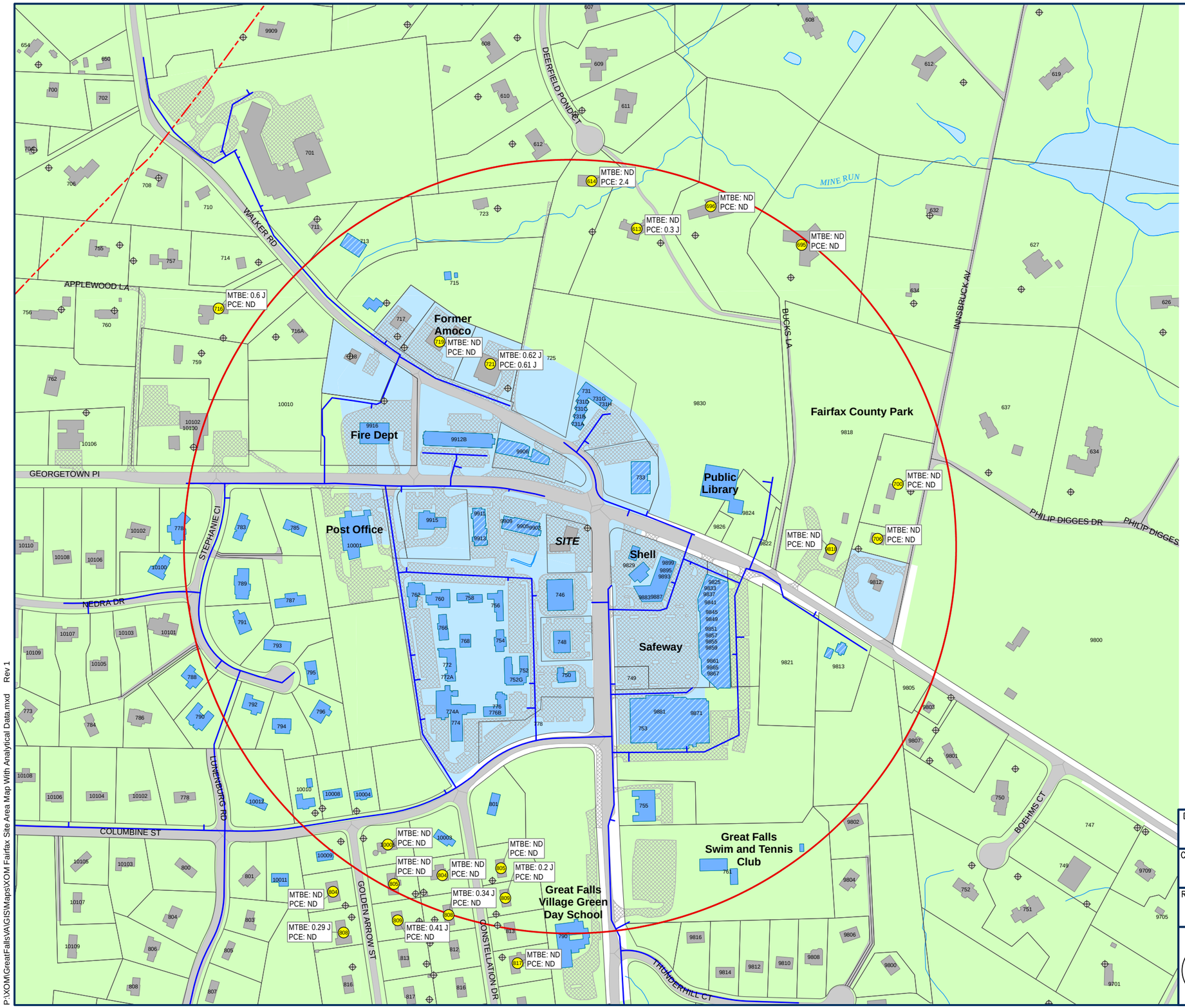
Fairfax County GIS & Mapping Services
Fairfax County Water Authority
Fairfax County Health Department

DRAFTED BY: RAB	LOCAL AREA MAP
CHECKED BY: MCS	EXXONMOBIL CORPORATION EXXON STATION #2-6140 9901 GEORGETOWN PIKE GREAT FALLS, VIRGINIA
REVIEWED BY: SS	Groundwater & Environmental Services, Inc. 2142 PRIEST BRIDGE COURT, SUITE 1, CROFTON, MD 21114
NORTH	SCALE IN FEET 0 300 / DATE 11-3-09 / FIGURE 2

P:\XOM\GreatFalls\VA\GIS\Maps\XOM Fairfax Site Area Map.mxd Rev 2



DRAFTED BY: AM	SITE MAP
CHECKED BY: MS	EXXONMOBIL CORPORATION EXXON STATION #2-6140 9901 GEORGETOWN PIKE GREAT FALLS, VIRGINIA
REVIEWED BY: SS	Groundwater & Environmental Services, Inc. 2142 PRIEST BRIDGE COURT, SUITE 1, CROFTON, MD 21114
SCALE IN FEET	DATE: 11-11-09 / FIGURE: 3



Legend

- Sampled Potable Well
- Potable Wells from Fairfax County Health Dept.
- 0.25 Mile Radius
- Public Water Line
- Gas Pipeline
- Building with Public Water Verified by Fairfax County Water Authority
- Building with Public Water per GES to be Verified by Fairfax County Water Authority
- Building
- Parcel Boundary
- Paved Road
- Parking Lot
- Stream
- Water Body

Zoning

- Commercial
- Residential

Notes:

MTBE - Methyl tert-Butyl Ether
PCE - Tetrachloroethylene
J - Estimated value
ND - Non-Detect
Concentration in parts per billion.
Chloroform detections are not included on this map.

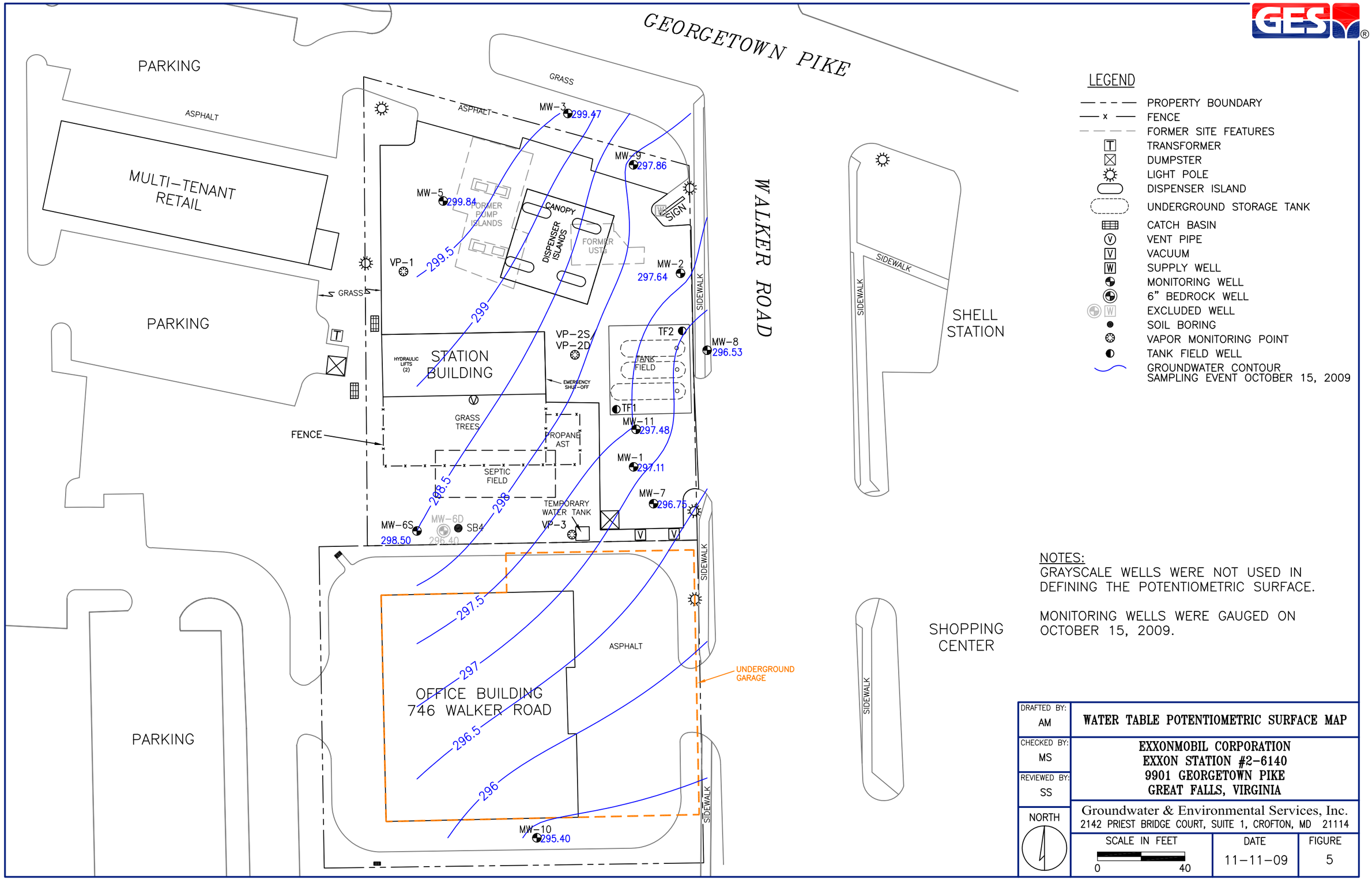
Concentrations indicated on this figure reflect maximum concentrations detected in samples collected from potable wells between 8-20-2009 and 10-13-2009.

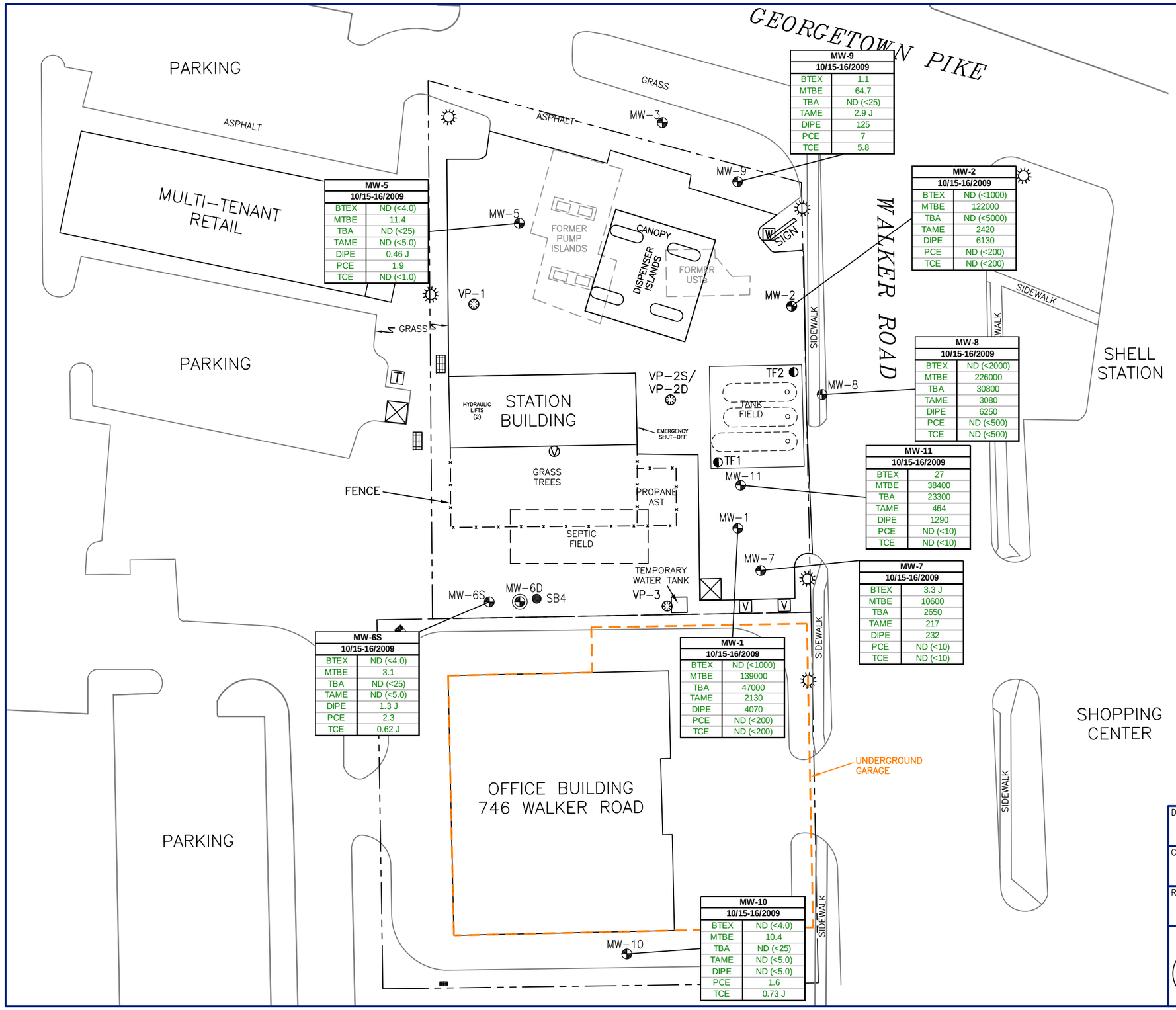
Base Map Sources:

Fairfax County GIS & Mapping Services
Fairfax County Water Authority
Fairfax County Health Department

DRAFTED BY: RAB	PRIVATE SUPPLY WELL SAMPLING MAP WITH SUMMARY OF RESULTS
CHECKED BY: MCS	EXXONMOBIL CORPORATION EXXON STATION #2-6140 9901 GEORGETOWN PIKE GREAT FALLS, VIRGINIA
REVIEWED BY: SS	Groundwater & Environmental Services, Inc. 2142 PRIEST BRIDGE COURT, SUITE 1, CROFTON, MD 21114
NORTH	SCALE IN FEET: 0 – 300 / DATE: 11-4-09 / FIGURE: 4

P:\XOM\GreatFalls\VA\GIS\Maps\XOM Fairfax Site Area Map With Analytical Data.mxd Rev 1


GEORGETOWN PIKE
WALKER ROAD
PARKING
ASPHALT
MULTI-TENANT RETAIL
PARKING
GRASS
ASPHALT
MW-3 299.47
MW-9 297.86
MW-5 299.84
FORMER PUMP ISLANDS
CANOPY
DISPENSER ISLANDS
FORMER USTs
SIGN
VP-1
299.5
MW-2 297.64
SIDEWALK
299
VP-2S
VP-2D
TF2
MW-8 296.53
HYDRAULIC LIFTS (2)
STATION BUILDING
TANK FIELD
EMERGENCY SHUT-OFF
TF1
GRASS TREES
MW-11 297.48
PROPANE AST
FENCE
MW-1 297.11
SEPTIC FIELD
298.5
298
MW-7 296.75
TEMPORARY WATER TANK
MW-6S 298.50
MW-6D 296.40
SB4
VP-3
297.5
297
296.5
296
ASPHALT
OFFICE BUILDING
746 WALKER ROAD
UNDERGROUND GARAGE
MW-10 295.40
PARKING
SHELL STATION
SIDEWALK
SHOPPING CENTER
LEGEND
PROPERTY BOUNDARY
FENCE
FORMER SITE FEATURES
TRANSFORMER
DUMPSTER
LIGHT POLE
DISPENSER ISLAND
UNDERGROUND STORAGE TANK
CATCH BASIN
VENT PIPE
VACUUM
SUPPLY WELL
MONITORING WELL
6" BEDROCK WELL
EXCLUDED WELL
SOIL BORING
VAPOR MONITORING POINT
TANK FIELD WELL
GROUNDWATER CONTOUR SAMPLING EVENT OCTOBER 15, 2009
NOTES:
GRAYSCALE WELLS WERE NOT USED IN DEFINING THE POTENTIOMETRIC SURFACE.
MONITORING WELLS WERE GAUGED ON OCTOBER 15, 2009.
DRAFTED BY: AM
CHECKED BY: MS
REVIEWED BY: SS
NORTH
WATER TABLE POTENTIOMETRIC SURFACE MAP
EXXONMOBIL CORPORATION
EXXON STATION #2-6140
9901 GEORGETOWN PIKE
GREAT FALLS, VIRGINIA
Groundwater & Environmental Services, Inc.
2142 PRIEST BRIDGE COURT, SUITE 1, CROFTON, MD 21114
SCALE IN FEET
0
40
DATE
11-11-09
FIGURE
5



MW-9	
10/15-16/2009	
BTEX	1.1
MTBE	64.7
TBA	ND (<25)
TAME	2.9 J
DIPE	125
PCE	7
TCE	5.8

MW-5	
10/15-16/2009	
BTEX	ND (<4.0)
MTBE	11.4
TBA	ND (<25)
TAME	ND (<5.0)
DIPE	0.46 J
PCE	1.9
TCE	ND (<1.0)

MW-2	
10/15-16/2009	
BTEX	ND (<1000)
MTBE	122000
TBA	ND (<5000)
TAME	2420
DIPE	6130
PCE	ND (<200)
TCE	ND (<200)

MW-8	
10/15-16/2009	
BTEX	ND (<2000)
MTBE	226000
TBA	30800
TAME	3080
DIPE	6250
PCE	ND (<500)
TCE	ND (<500)

MW-11	
10/15-16/2009	
BTEX	27
MTBE	38400
TBA	23300
TAME	464
DIPE	1290
PCE	ND (<10)
TCE	ND (<10)

MW-7	
10/15-16/2009	
BTEX	3.3 J
MTBE	10600
TBA	2650
TAME	217
DIPE	232
PCE	ND (<10)
TCE	ND (<10)

MW-6S	
10/15-16/2009	
BTEX	ND (<4.0)
MTBE	3.1
TBA	ND (<25)
TAME	ND (<5.0)
DIPE	1.3 J
PCE	2.3
TCE	0.62 J

MW-1	
10/15-16/2009	
BTEX	ND (<1000)
MTBE	139000
TBA	47000
TAME	2130
DIPE	4070
PCE	ND (<200)
TCE	ND (<200)

MW-10	
10/15-16/2009	
BTEX	ND (<4.0)
MTBE	10.4
TBA	ND (<25)
TAME	ND (<5.0)
DIPE	ND (<5.0)
PCE	1.6
TCE	0.73 J

LEGEND

- PROPERTY BOUNDARY
- FENCE
- FORMER SITE FEATURES
- TRANSFORMER
- DUMPSTER
- LIGHT POLE
- DISPENSER ISLAND
- UNDERGROUND STORAGE TANK
- CATCH BASIN
- VENT PIPE
- VACUUM
- SUPPLY WELL
- MONITORING WELL
- 6" BEDROCK WELL
- SOIL BORING
- VAPOR MONITORING POINT
- TANK FIELD WELL

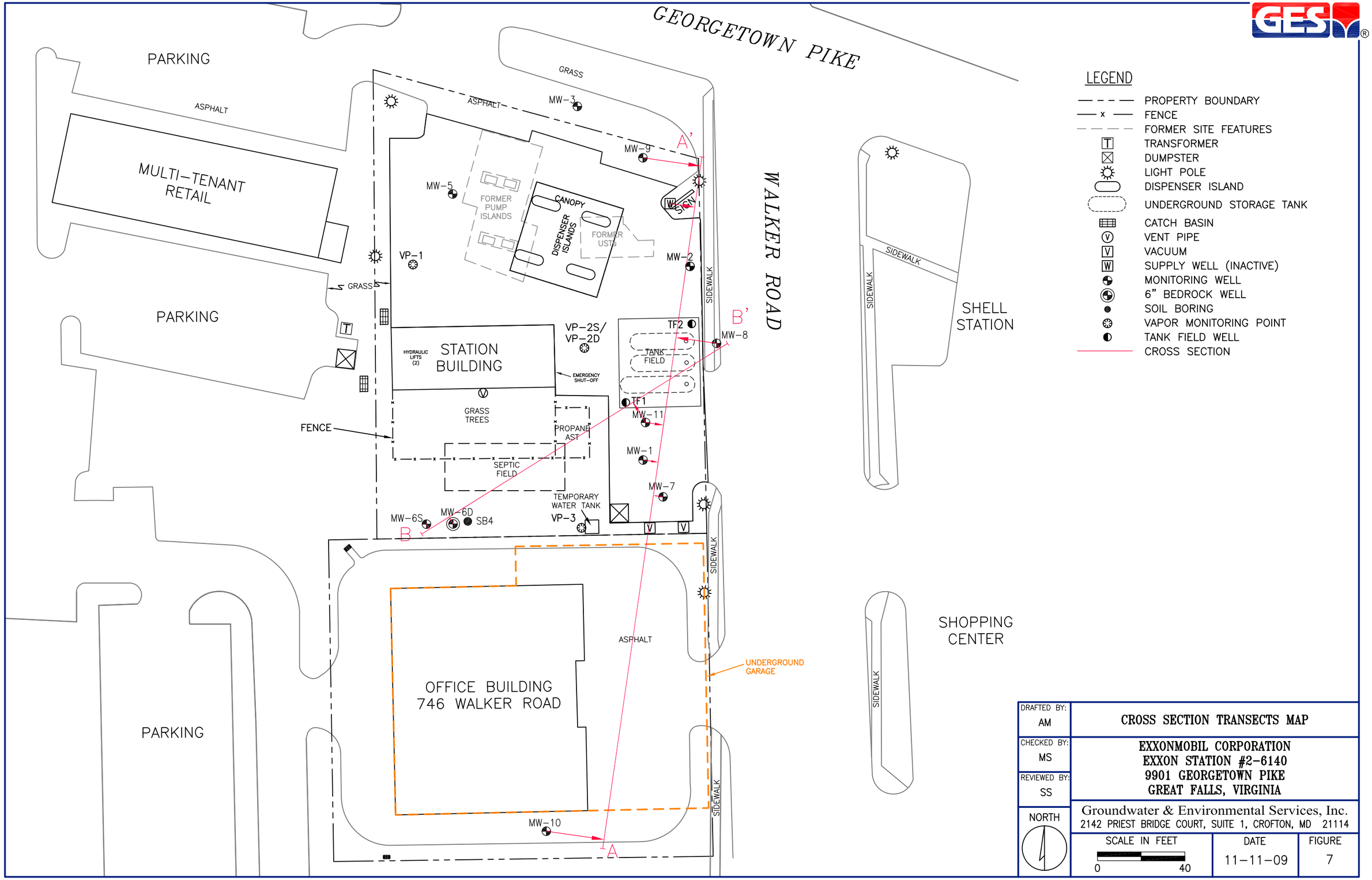
WELL ID	
SAMPLE DATE(S)	
ANALYTE	CONCENTRATIONS

NOTES:

BTEX	Benzene, Toluene, Ethylbenzene, Total Xylenes
MTBE	Methyl tert-Butyl Ether
TBA	Tertiary Butyl Alcohol
TAME	Tertiary Amyl Methyl Ether
DIPE	Diisopropyl Ether
PCE	Tetrachloroethylene
TCE	Trichloroethylene
ND	Non-Detect
J	Estimated Value

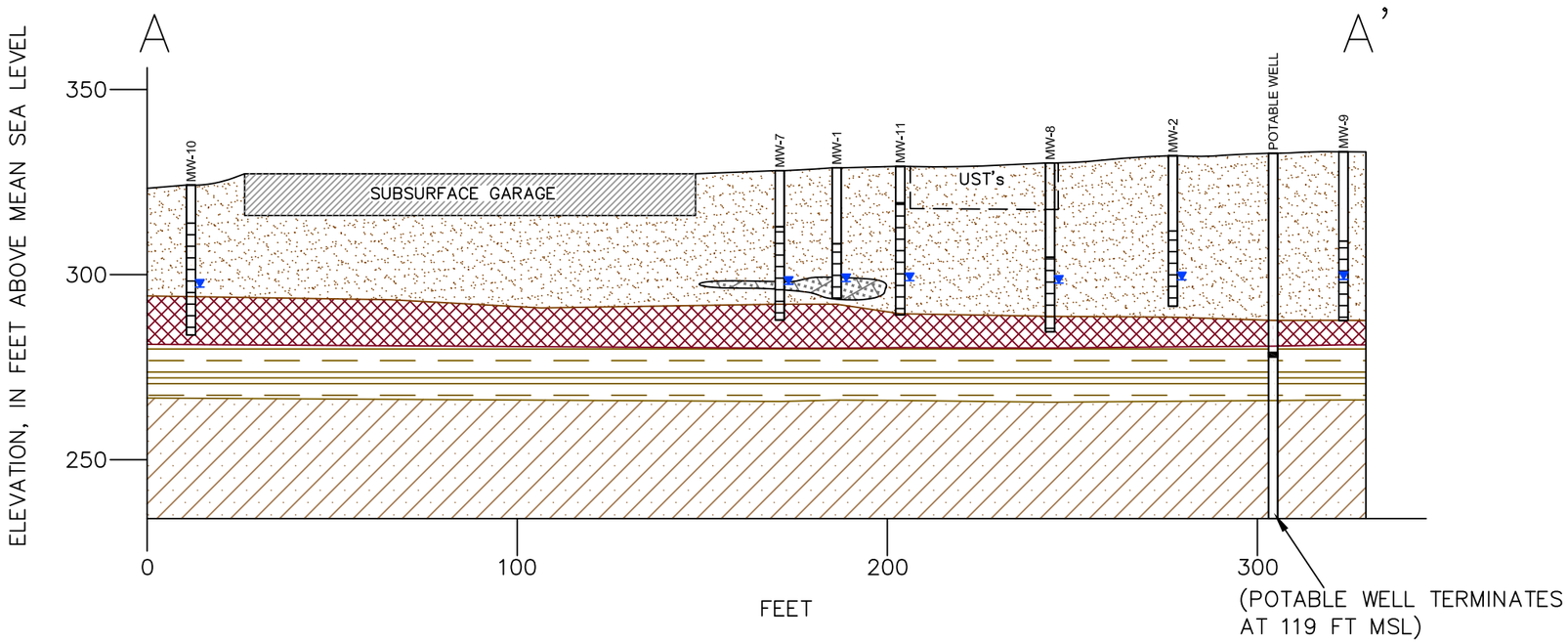
CONCENTRATION IN PARTS PER BILLION

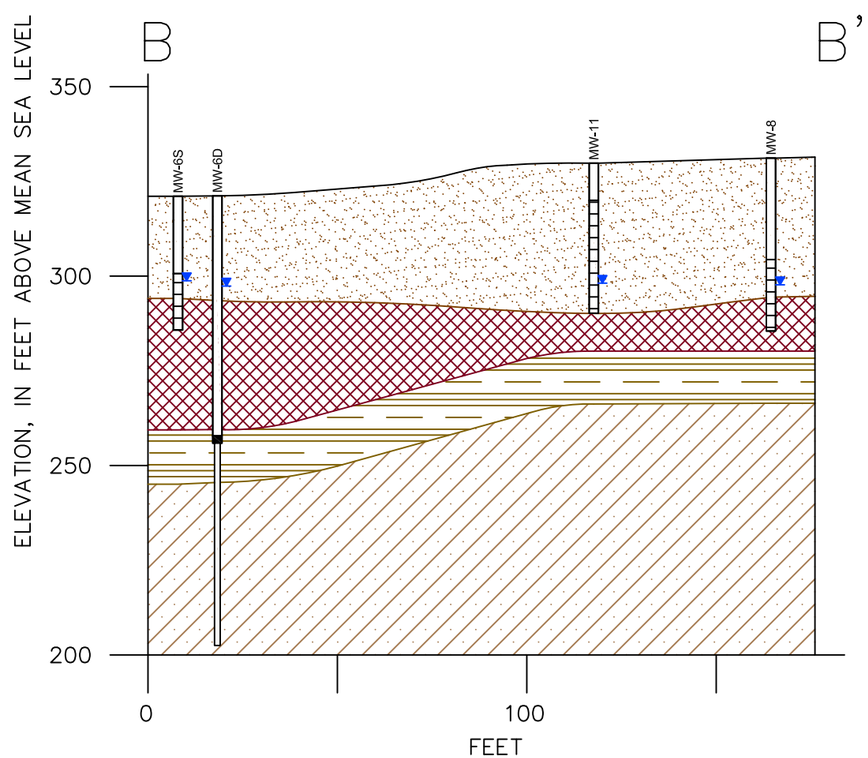
DRAFTED BY: AM	WATER TABLE DISSOLVED CONCENTRATION MAP
CHECKED BY: MS	EXXONMOBIL CORPORATION EXXON STATION #2-6140 9901 GEORGETOWN PIKE GREAT FALLS, VIRGINIA
REVIEWED BY: SS	Groundwater & Environmental Services, Inc. 2142 PRIEST BRIDGE COURT, SUITE 1, CROFTON, MD 21114
NORTH	SCALE IN FEET 0 40 / DATE 11-11-09 / FIGURE 6



DRAFTED BY: AM	CROSS SECTION TRANSECTS MAP
CHECKED BY: MS	EXXONMOBIL CORPORATION EXXON STATION #2-6140 9901 GEORGETOWN PIKE GREAT FALLS, VIRGINIA
REVIEWED BY: SS	Groundwater & Environmental Services, Inc. 2142 PRIEST BRIDGE COURT, SUITE 1, CROFTON, MD 21114

SCALE IN FEET	DATE	FIGURE
0 — 40	11-11-09	7





LEGEND

- Silt, loose, high mica content, non-structured, tan-grey
- Structured saprolite, silt with sorted mica foliation planes, tan-grey
- Weathered Mica Schist
- Crystalline Mica Schist
- Quartz Veins – sub-angular quartz gravel in silt matrix
- MW-11 WELL ID
- WELL CASING
- WELL SCREEN
- WATER TABLE

DRAFTED BY: AM	CROSS SECTION A-A' AND B-B'
CHECKED BY: MS	EXXONMOBIL CORPORATION EXXON STATION #2-6140 9901 GEORGETOWN PIKE GREAT FALLS, VIRGINIA
REVIEWED BY: SS	Groundwater & Environmental Services, Inc. 2142 PRIEST BRIDGE COURT, SUITE 1, CROFTON, MD 21114

SCALE ON MAP	DATE	FIGURE
	11-11-09	8

APPENDIX A

Phase I ESA Report

APPENDIX B

Phase II ESA Report

APPENDIX C

Bedrock Geologic and Geophysical Data

Table C-1. Bedrock Features
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA

Planar Features (primary foliation) from field outcrop mapping, 08/20/09 - 23 features mapped

		Right Hand Rule		
Strike	Dip	Strike	Dip	Description
Outcrop # 1 - gray quartz-rich schist with vein quartz				
N13°E	38°SE	13	38	primary foliation
N14°E	54°SE	14	54	primary foliation
N14°E	58°SE	14	58	primary foliation
N34°E	37°SE	34	37	axial plane of small-scale fold
Outcrop # 2 - gray quartz-rich schist with vein quartz - approx 500 ft west of # 1				
N13°E	38°SE	13	38	primary foliation
N18°E	37°SE	18	37	primary foliation
Outcrop # 3 - rusty brown, thinly laminated weathered schist				
N14°E	62°SE	14	62	primary foliation
Outcrop # 4 - in stream bed 40 ft south of # 3. Light gray. Thinly bedded, sandy slate.				
N52°E	2°NW	182	2	bedding
Oucrop # 5 - in stream bed approx 150 ft (southeast) of # 4. Rusty, thinly laminated schist.				
N3°E	62°SE	3	62	primary foliation
N6°E	61°SE	6	61	primary foliation
N6°E	66°SE	6	66	primary foliation
N16°E	40°SE	16	40	primary foliation an additional 100 ft upstream
Outcrop # 6 - approx 180 ft upstream (NW) of # 5. Gray, fine-grained, crystalline graywacke with thin mineral banding.				
N3°W	52°SW	183	52	primary foliation
N11°W	61°SW	191	61	primary foliation
N14°W	44°SW	194	44	primary foliation
Outcrop # 7 - near Potomac River 0.5 mile east of River Bend Park entrance. Gray sandy schist with abundant quartz veins.				
N16°E	60°SE	16	60	primary foliation
N15°E	54°SE	15	54	primary foliation
N19°E	74°SE	19	74	primary foliation
N19°E	83°SE	19	83	primary foliation
N20°E	63°SE	20	63	primary foliation
N12°E	86°SE	12	86	large joint subparallel to layering
Outcrop # 8 - at river bank 1/4 mile east of # 7 . Green-gray, thinly bedded, quartz-rich schist.				
N13°E	75°SE	13	75	primary layering
N8°E	82°NW	188	82	primary layering

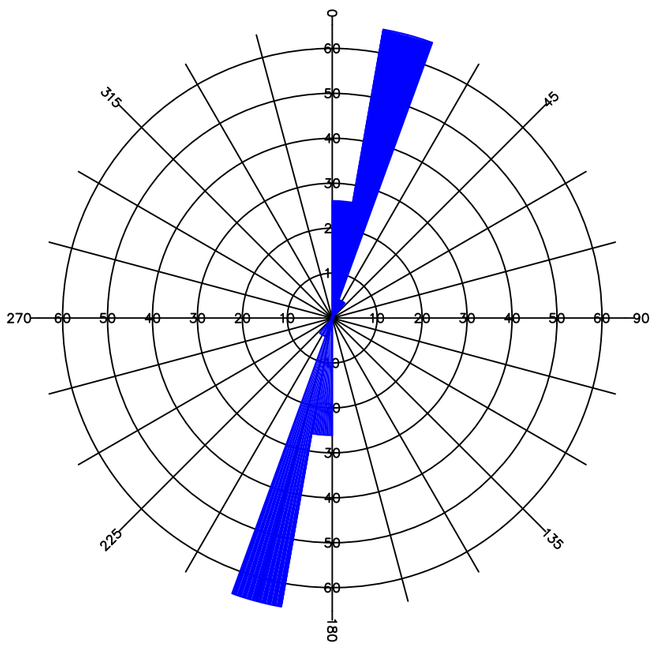
Table C-2. Supply Well Geophysical Survey: Potential Features of Interest
ExxonMobil Service Station #2-6140
9901 Georgetown Pike, Great Falls, VA

Depth (ft)	Video	Caliper	Conductivity	ATV	Heat Pulse flow	Description
54.4	♦					bottom of casing
56.4				2		
57.4	♦			2		inclined fracture
58.2 - 58.8	♦	♦		1		subhorizontal fracture - moderate size, large caliper deflection (> 4 inches)
61.3				3		
63.8	♦	♦				subhorizontal broken zone, moderate caliper deflection (< 1 inch)
64.3				1		
68.7 - 69.1	♦	♦		1		large inclined fracture, moderate caliper deflection (< 1 inch)
71.1 - 71.3	♦			2		small subhorizontal fracture with small void
77.7 - 78.0	♦					inclined layering with qtz vein and small void
78 - 79			♦	1	♦	conductivity increase of > 400 µs/cm, down flow of 0.3 gpm
79.7				1		
85.0 - 85.4	♦			1	♦	small voids in inclined layering, down flow of 0.4 gpm
86.5		♦				moderate caliper deflection (< 1 inch)
87.5					♦	down flow of 0.4 gpm
89.5	♦					small void
89.75 - 90.0	♦	♦		2		steeply inclined fracture, moderate caliper deflection (< 1 inch) at 90 - 92 ft.
91.0					♦	down flow of 0.4 gpm
91.6				1		
92.6				2		
95.5	♦			2		steeply inclined, medium sized void in inclined layering
100.6	♦					steeply inclined, medium sized void in inclined layering
102.6	♦				♦	two small subhorizontal voids
103.8	♦	♦		1	♦	layer parallel, steeply inclined medium sized partings, small caliper deflection (< 1/2 inch) at 102.5 - 103.5 ft, down flow of 0.4 gpm.
109.3				2		
111.0				2	♦	down flow of 0.2 gpm
116.0	♦					bottom of hole

General Notes: No noticable temperature deflections identified in survey, so these data have not been considered in analysis summarized above
Resistivity and Conductivity surveys yielded identical interpretations (inverse curve deflections), so only one is summarized above
Some descriptions have been combined for features with <0.5 ft. vertical separation

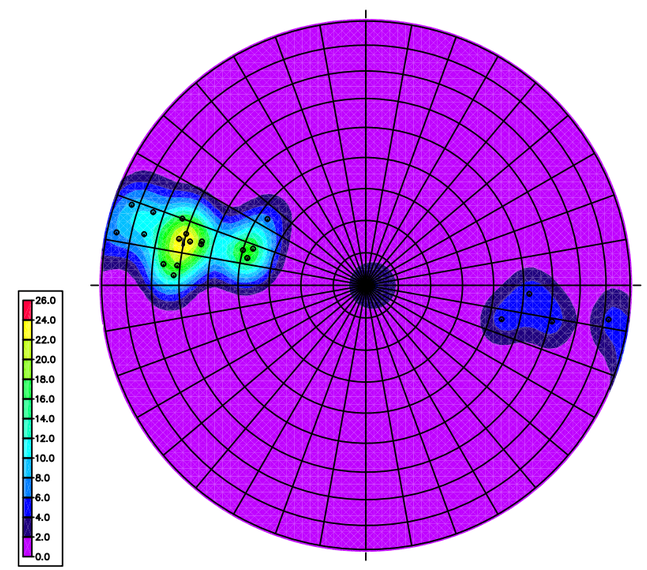
ATV Feature Descriptions: 1. Major Open Joint/Fracture
2. Minor Open Joint/Fracture
3. Partially Open Joint/Fracture

Outcrop Foliation Planes – Great Falls, VA, August 2009 – 23 Features
Statistical Summary



Calculation Method:	Frequency
Class Interval:	10 Degrees
Min.Length Filtering:	Deactivated
Max.Length Filtering:	Deactivated
Azimuth Filtering:	Deactivated
Data Type:	Bidirectional
Population:	23
Maximum Percentage:	65.2 Percent
Mean Percentage:	25.0 Percent
Standard Deviation:	26.57 Percent
Vector Mean:	13.16 Degrees
Confidence Interval:	4.36 Degrees
R–mag:	0.99

Bedrock Foliation Planes – Great Falls, VA Lower Hemisphere Projection – 23 Data Points



Statistical Summary	
Projection:	Schmidt (Equal Area)
Number of Sample Points:	23
Mean Lineation Azimuth:	283.6
Mean Lineation Plunge:	27.6
Great Circle Azimuth:	281.8
Great Circle Plunge:	86.7
1st Eigenvalue:	0.781
2nd Eigenvalue:	0.213
3rd Eigenvalue:	0.006
LN (E1 / E2):	1.299
LN (E2 / E3):	3.537
(LN(E1/E2)) / (LN(E2/E3)):	0.367
Spherical Variance:	0.2789
Rbar:	0.7211

DRAFTED BY: AM

CHECKED BY: MS

REVIEWED BY: SS

NORTH

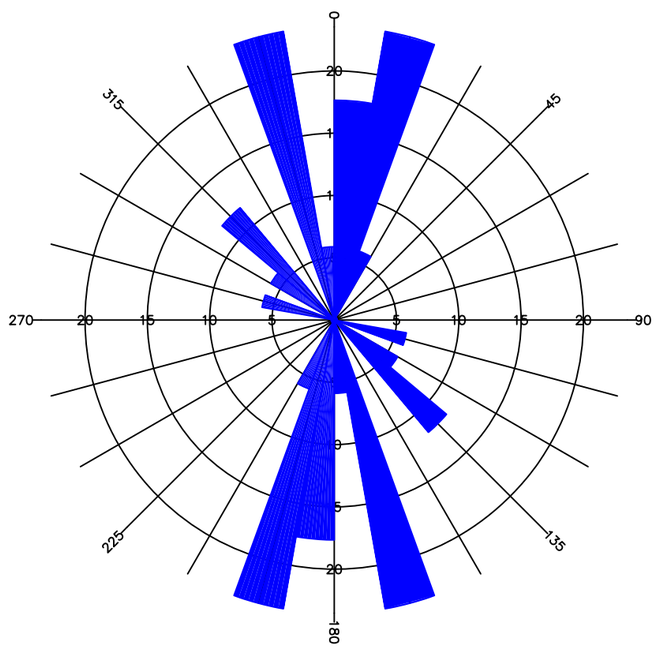
OUTCROP FOLIATION PLANES
ROSE DIAGRAM AND STEREOGRAM

EXXONMOBIL CORPORATION
EXXON STATION #2-6140
9901 GEORGETOWN PIKE
GREAT FALLS, VIRGINIA

Groundwater & Environmental Services, Inc.
2142 PRIEST BRIDGE COURT, SUITE 1, CROFTON, MD 21114

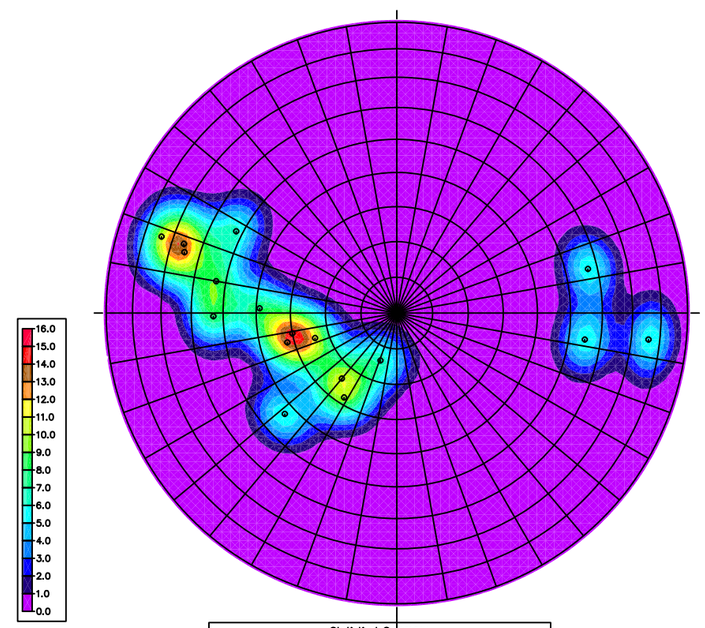
NOT TO SCALE	DATE	FIGURE
	11–11–09	C–1

Supply Well ATV Planes – Great Falls, VA, August 2009 – 17 Features
Statistical Summary



Calculation Method:	Frequency
Class Interval:	10 Degrees
Min.Length Filtering:	Deactivated
Max.Length Filtering:	Deactivated
Azimuth Filtering:	Deactivated
Data Type:	Bidirectional
Population:	17
Maximum Percentage:	23.5 Percent
Mean Percentage:	12.5 Percent
Standard Deviation:	7.71 Percent
Vector Mean:	84.27 Degrees
Confidence Interval:	68.31 Degrees
R–mag:	0.36

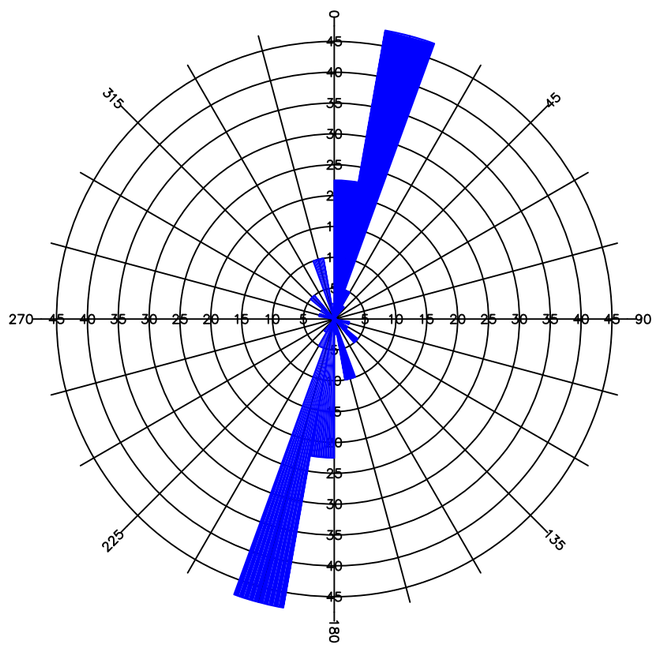
Supply Well ATV Planes – Great Falls, VA Lower Hemisphere Projection – 17 Data Points



Statistical Summary	
Projection:	Schmidt (Equal Area)
Number of Sample Points:	17
Mean Lineation Azimuth:	267.9
Mean Lineation Plunge:	46.6
Great Circle Azimuth:	100.8
Great Circle Plunge:	78.1
1st Eigenvalue:	0.696
2nd Eigenvalue:	0.262
3rd Eigenvalue:	0.042
LN (E1 / E2):	0.977
LN (E2 / E3):	1.843
(LN(E1/E2)] / (LN(E2/E3)):	0.53
Spherical Variance:	0.2673
Rbar:	0.7327

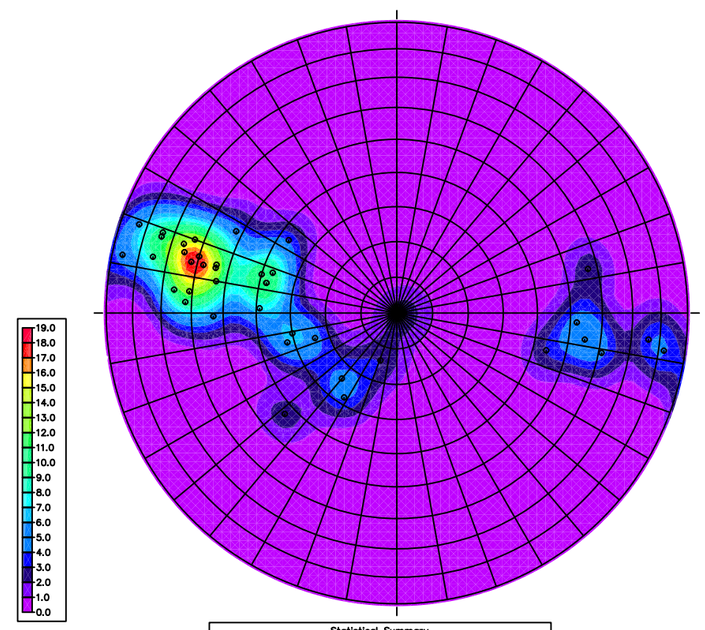
DRAFTED BY: AM	SUPPLY WELL ATV PLANES ROSE DIAGRAM AND STEREOGRAM
CHECKED BY: MS	EXXONMOBIL CORPORATION EXXON STATION #2-6140 9901 GEORGETOWN PIKE GREAT FALLS, VIRGINIA
REVIEWED BY: SS	
NORTH	Groundwater & Environmental Services, Inc. 2142 PRIEST BRIDGE COURT, SUITE 1, CROFTON, MD 21114
	SCALE IN FEET 0 40 / DATE 11-11-09 / FIGURE C-2

Outcrop Foliation and Supply Well ATV Planes – Great Falls, VA, August 2009 – 40 Features
Statistical Summary



Calculation Method:	Frequency
Class Interval:	10 Degrees
Min.Length Filtering:	Deactivated
Max.Length Filtering:	Deactivated
Azimuth Filtering:	Deactivated
Data Type:	Bidirectional
Population:	40
Maximum Percentage:	47.5 Percent
Mean Percentage:	11.1 Percent
Standard Deviation:	14.66 Percent
Vector Mean:	26.15 Degrees
Confidence Interval:	22.5 Degrees
R–mag:	0.64

Supply Well ATV and Bedrock Foliation Planes – Great Falls, VA Lower Hemisphere Projection – 40 Data Points



Statistical Summary	
Projection:	Schmidt (Equal Area)
Number of Sample Points:	40
Mean Lineation Azimuth:	279.0
Mean Lineation Plunge:	34.3
Great Circle Azimuth:	102.4
Great Circle Plunge:	85.0
1st Eigenvalue:	0.725
2nd Eigenvalue:	0.246
3rd Eigenvalue:	0.028
LN (E1 / E2):	1.08
LN (E2 / E3):	2.162
(LN(E1/E2)] / (LN(E2/E3)):	0.5
Spherical Variance:	0.2852
Rbar:	0.7148

DRAFTED BY: AM	SUPPLY WELL ATV AND FOLIATION PLANES ROSE DIAGRAM AND STEREOGRAM
CHECKED BY: MS	EXXONMOBIL CORPORATION EXXON STATION #2-6140 9901 GEORGETOWN PIKE GREAT FALLS, VIRGINIA
REVIEWED BY: SS	
NORTH	Groundwater & Environmental Services, Inc. 2142 PRIEST BRIDGE COURT, SUITE 1, CROFTON, MD 21114
	SCALE IN FEET 0 40 / DATE 11-11-09 / FIGURE C-3

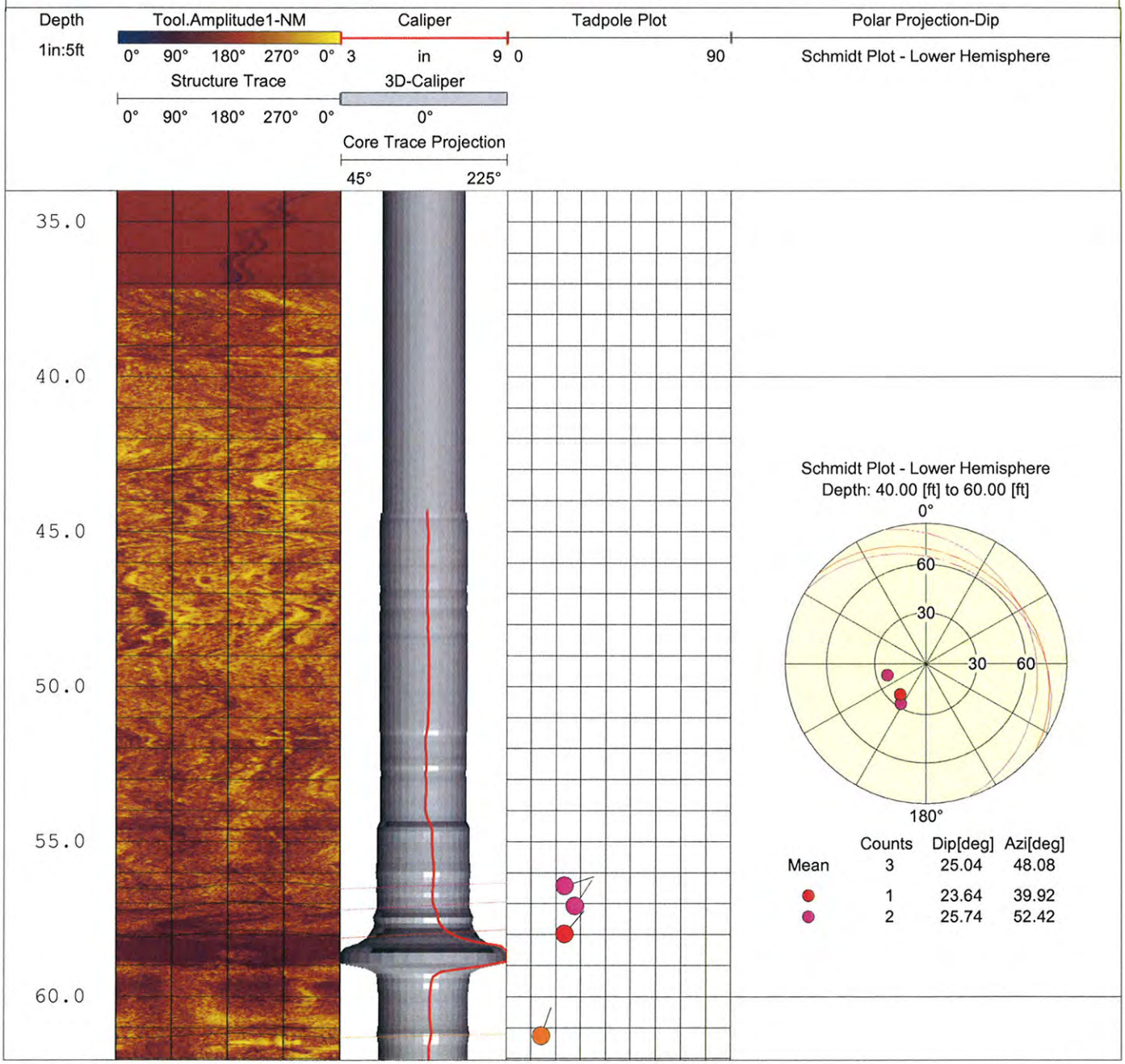
Earth Data Incorporated
131 Comet Drive, Centreville, MD 21617
Phone: (410) 758-8160 / Facsimile (410) 758-8168
www.earthdatainc.com

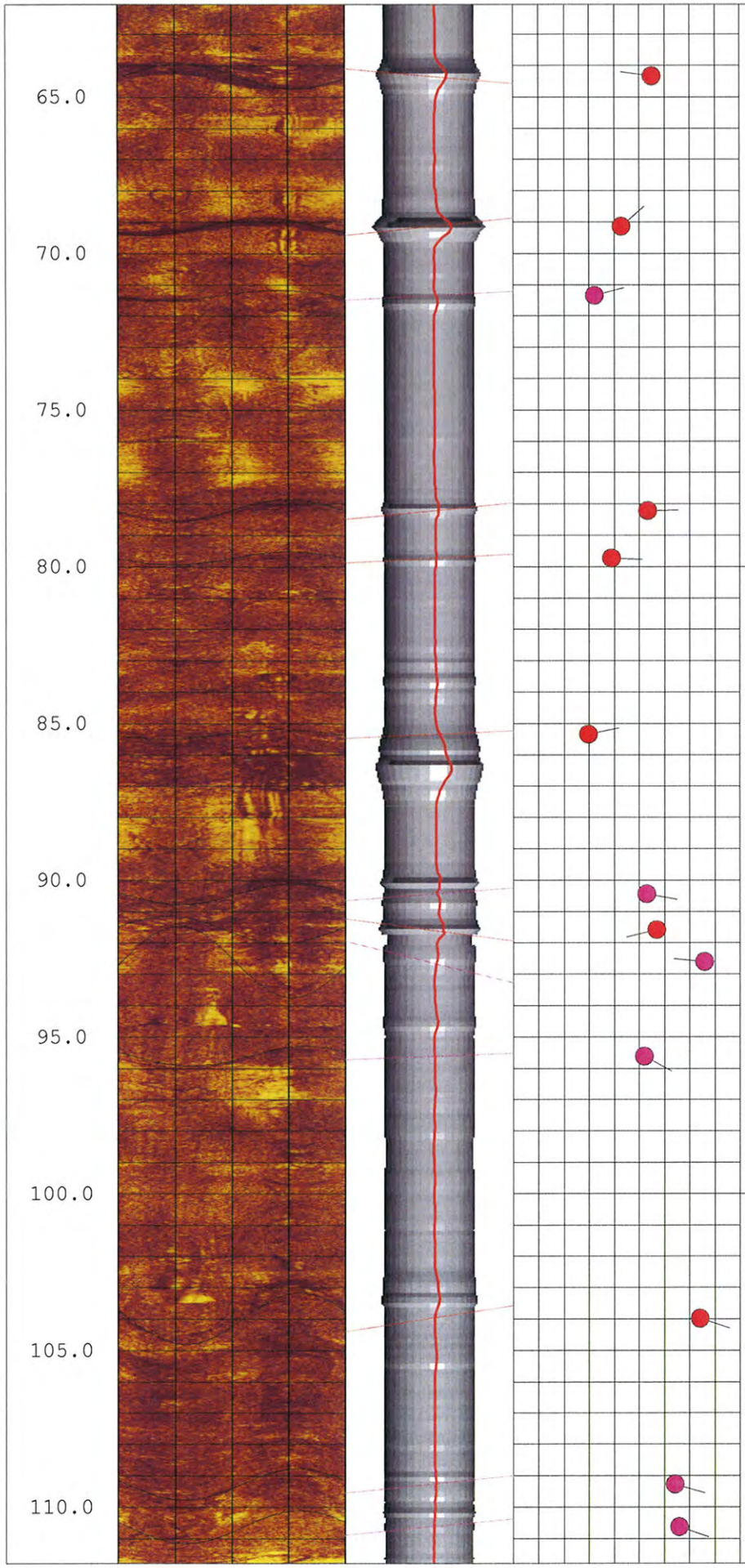
WELL I.D.
Station Well (ABI)

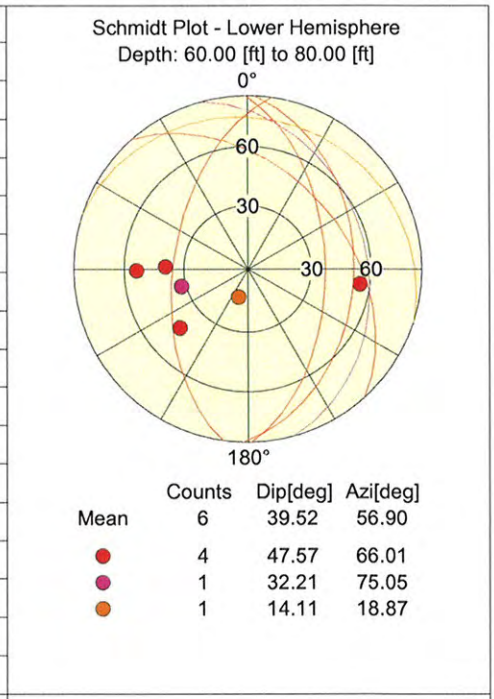
Logging Date: *8/2609*
Logging Speed: *7'/min* x **Up** **Down**
BOC: *55'* **TD:** *116'*

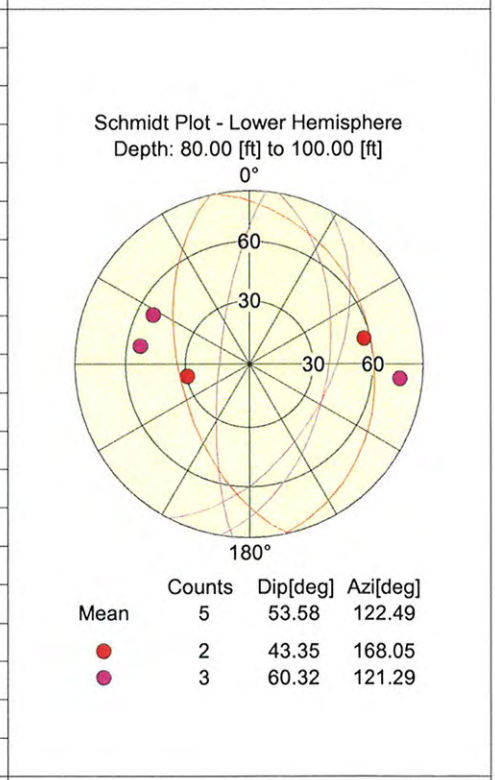
Project:	*GES/Great Falls Exxon*	**Borehole Diameter:**	*6"*	**EDI Job No.:**	*4103*
Client:	*Groundwater Environmental Services*	**Fluid Type:**	*Water@36.86 ft*	**Technician:**	*JKrewson*
Location:	*Great Falls, VA*	**Casing Material:**	*Steel*	**Witness:**	*Chris@GES*
Dip Azimuth:	*True North*	**Dip Angle:**	*Corrected For Deviation*		

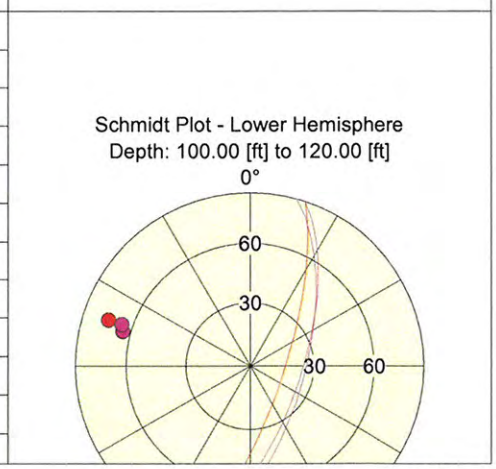
Major Open Joint / Fracture Minor Open Joint / Fracture Partially Open Joint / Fracture

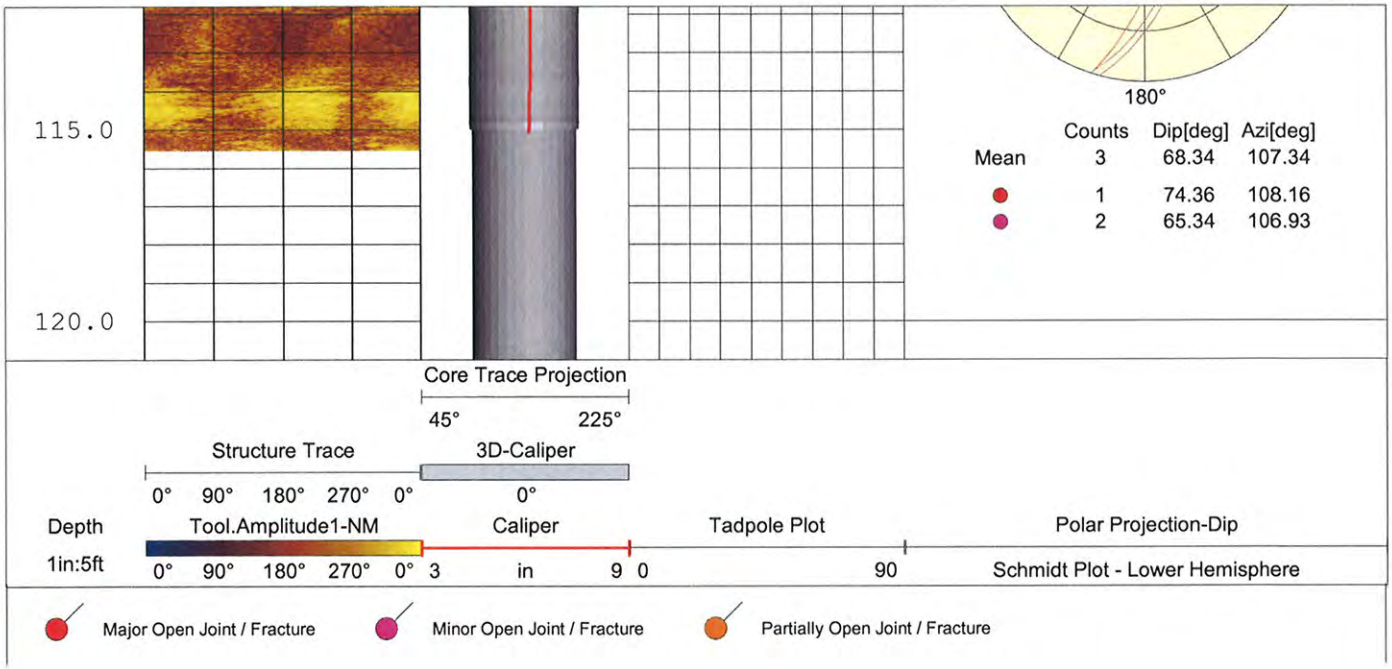



65.0
70.0
75.0
80.0
85.0
90.0
95.0
100.0
105.0
110.0


Schmidt Plot - Lower Hemisphere
Depth: 60.00 [ft] to 80.00 [ft]
0°
60
30
30
60
180°
Counts Dip[deg] Azi[deg]
Mean 6 39.52 56.90
4 47.57 66.01
1 32.21 75.05
1 14.11 18.87


Schmidt Plot - Lower Hemisphere
Depth: 80.00 [ft] to 100.00 [ft]
0°
60
30
30
60
180°
Counts Dip[deg] Azi[deg]
Mean 5 53.58 122.49
2 43.35 168.05
3 60.32 121.29


Schmidt Plot - Lower Hemisphere
Depth: 100.00 [ft] to 120.00 [ft]
0°
60
30
30
60


115.0
120.0
180°
Counts Dip[deg] Azi[deg]
Mean 3 68.34 107.34
1 74.36 108.16
2 65.34 106.93
Core Trace Projection
45° 225°
Structure Trace
3D-Caliper
0° 90° 180° 270° 0°
0°
Depth
1in:5ft
Tool.Amplitude1-NM
0° 90° 180° 270° 0°
Caliper
3 in 9
Tadpole Plot
0 90
Polar Projection-Dip
Schmidt Plot - Lower Hemisphere
Major Open Joint / Fracture
Minor Open Joint / Fracture
Partially Open Joint / Fracture

Earth Data Incorporated
131 Comet Drive, Centreville, MD 21617
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www.earthdatainc.com

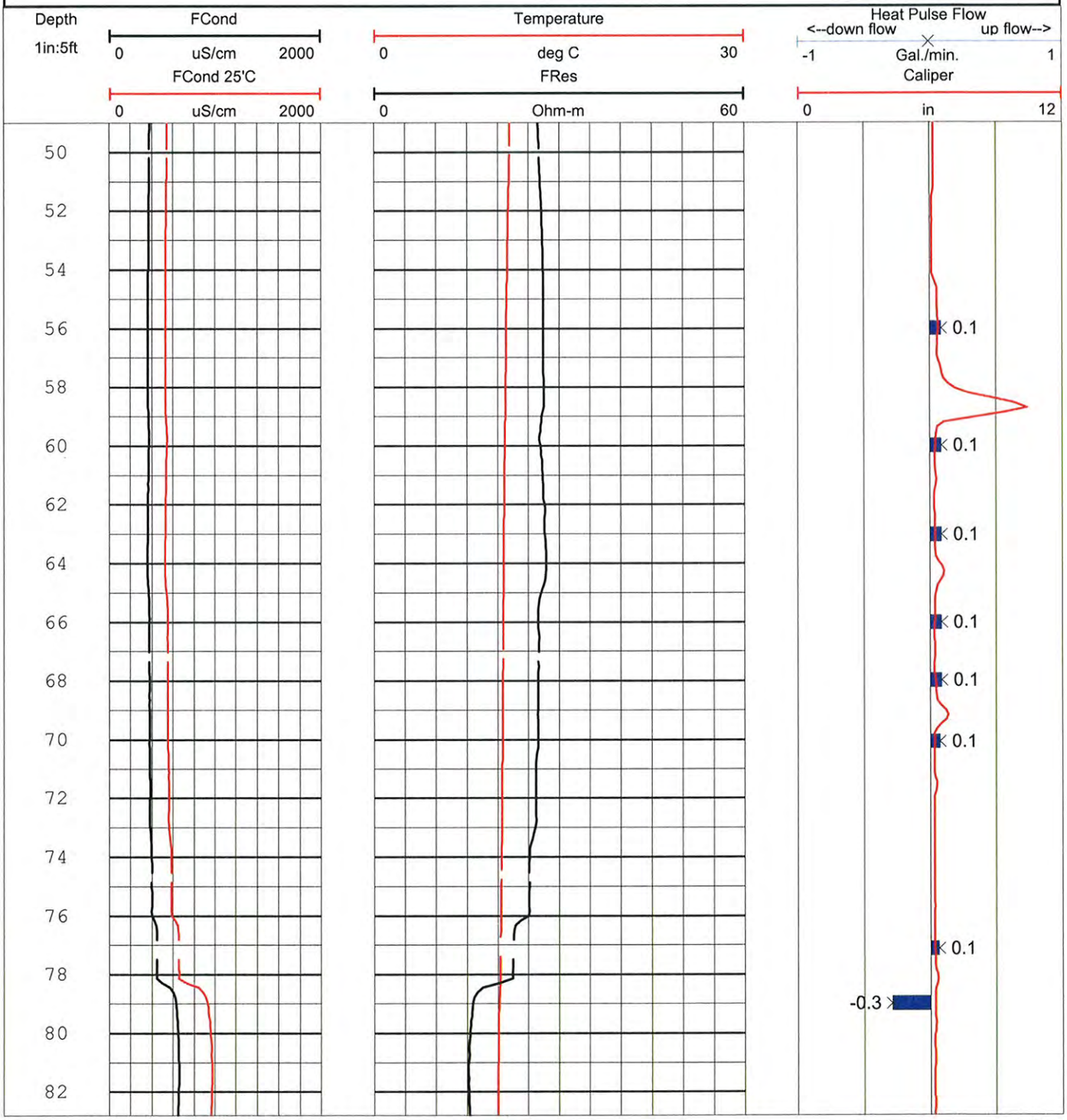
WELL I.D.
Station Supply

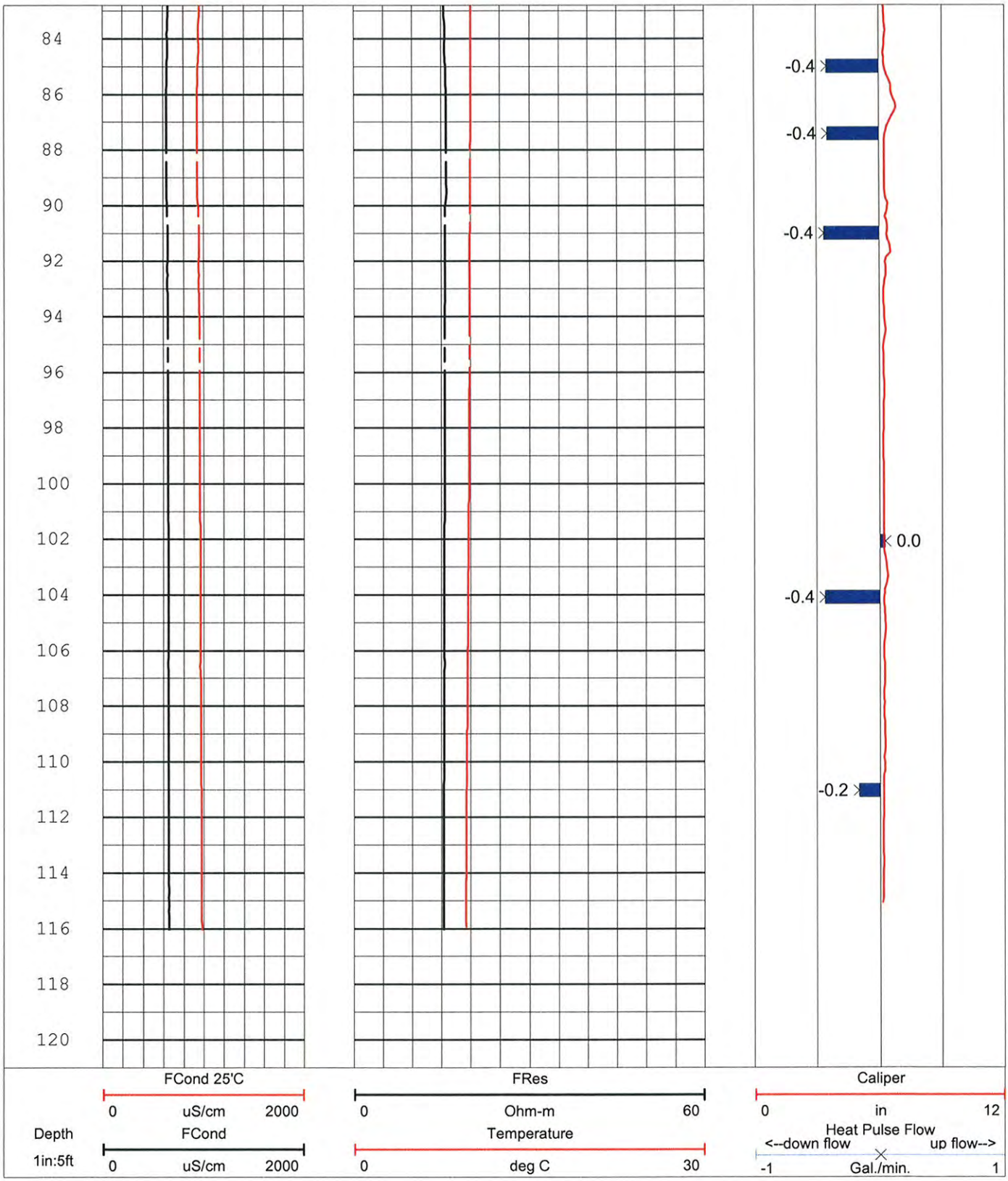
Logging Date: *8/26/09*
Logging Speed: *8'/min* x **Up** **Down**
BOC: *55'* **TD:** *116'*

Project: *GES/Great Falls Exxon* **Bit Size:** **EDI Job No.:** *4103*

Client: *Groundwater Environmental Services* **Fluid Type:** *Water@36.86 ft* **Technician:** *JKrewson*

Location: *Great Falls, VA* **GPS:** *N38° 59.873' W077° 17.314'* **Casing Material:** *Steel* **Witness:** *Chris@GES*




84
86
88
90
92
94
96
98
100
102
104
106
108
110
112
114
116
118
120
-0.4
-0.4
-0.4
0.0
-0.4
-0.2
FCond 25'C
0 uS/cm 2000
FRes
0 Ohm-m 60
Caliper
0 in 12
Depth
1in:5ft
FCond
0 uS/cm 2000
Temperature
0 deg C 30
Heat Pulse Flow
<--down flow up flow-->
-1 Gal./min. 1

Earth Data Incorporated
131 Comet Drive, Centreville, MD 21617
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www.earthdatainc.com

WELL I.D.
Station Supply

Logging Date: *8/26/09*
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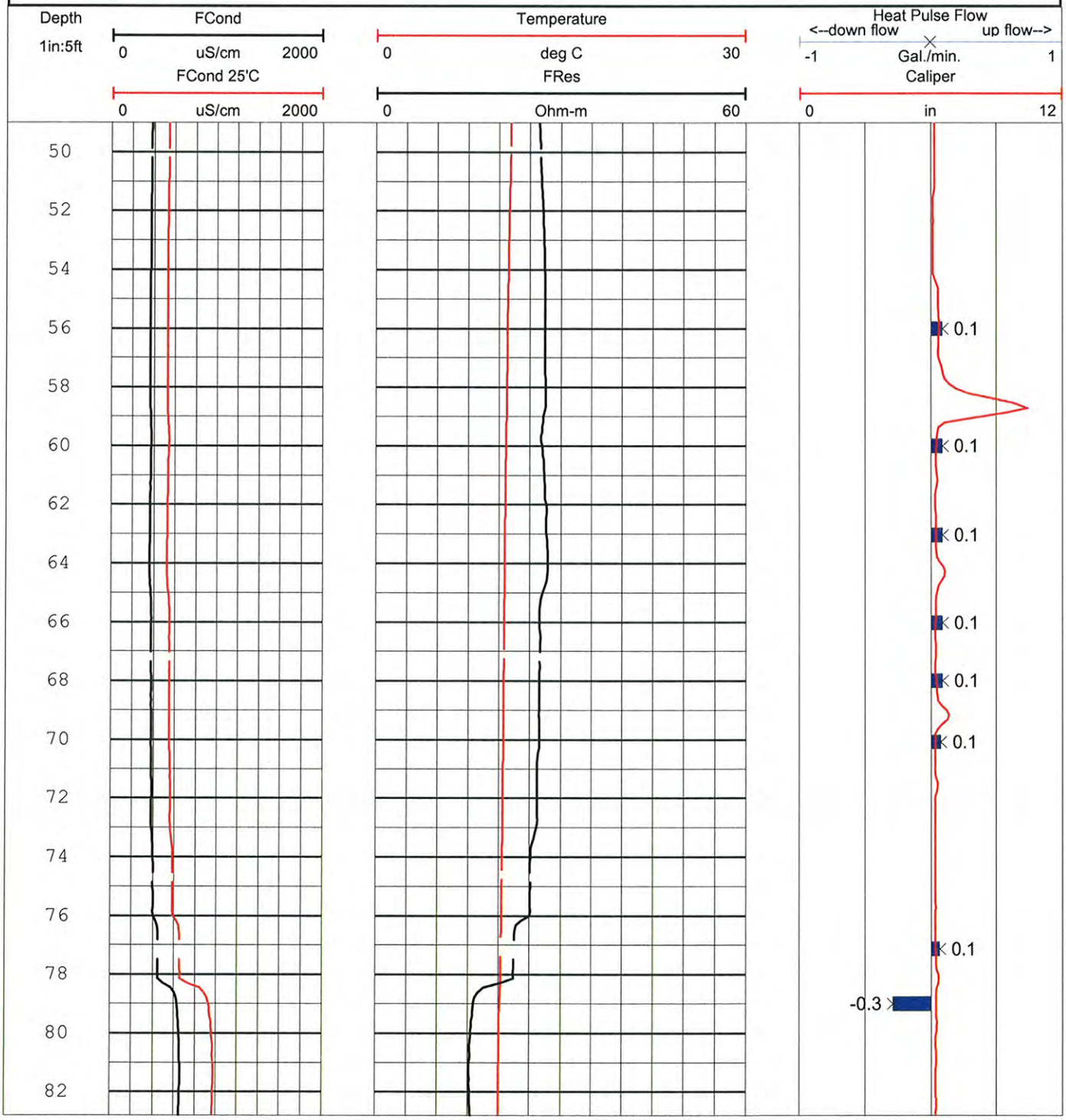
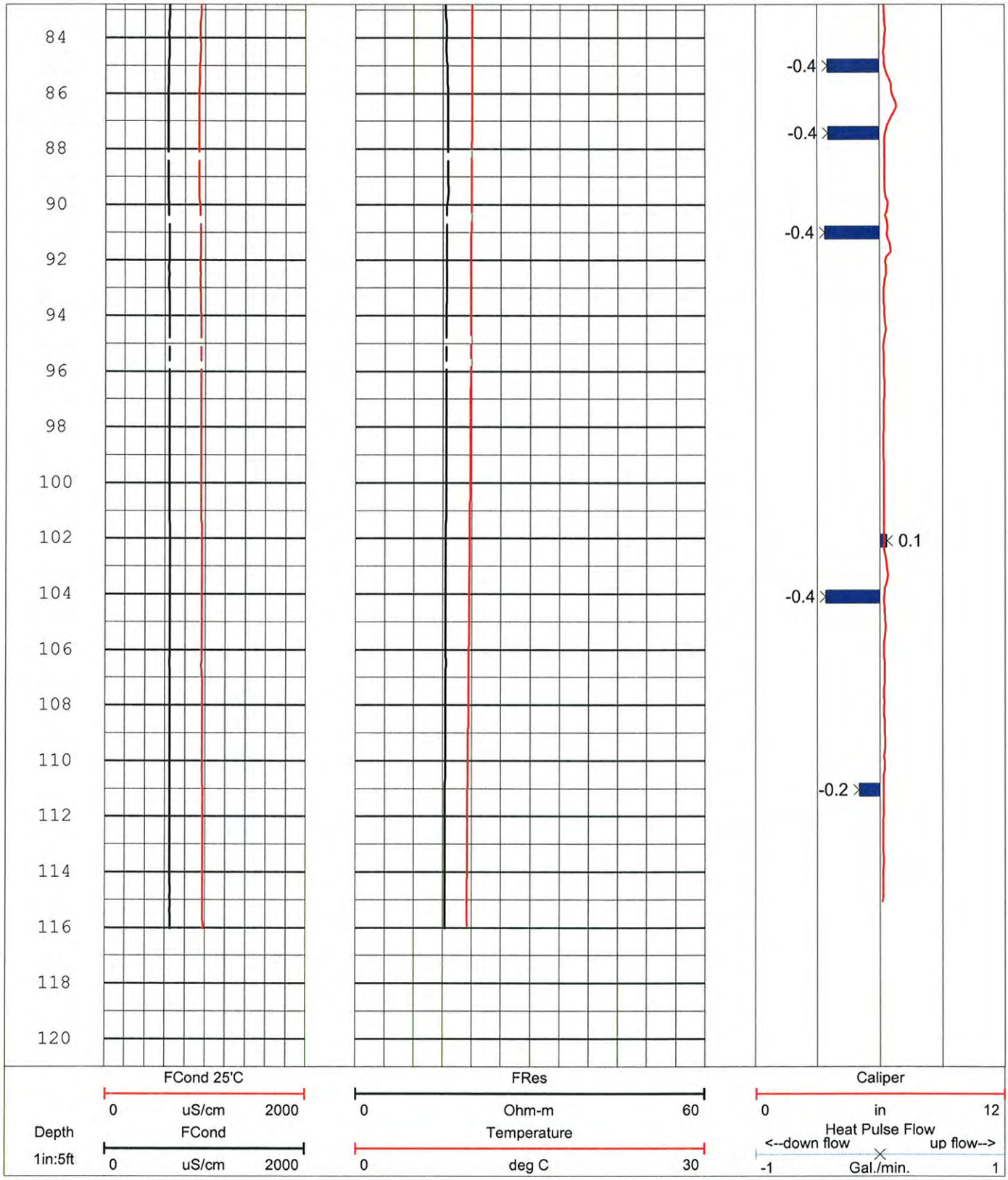
Location: *Great Falls, VA* **GPS:** *N38° 59.873' W077° 17.314'* **Casing Material:** *Steel* **Witness:** *Chris@GES*




84
86
88
90
92
94
96
98
100
102
104
106
108
110
112
114
116
118
120
-0.4
-0.4
-0.4
0.1
-0.4
-0.2
FCond 25'C
0 uS/cm 2000
FRes
0 Ohm-m 60
Caliper
0 in 12
Depth
1in:5ft
FCond
0 uS/cm 2000
Temperature
0 deg C 30
Heat Pulse Flow
<--down flow up flow-->
-1 Gal./min. 1

APPENDIX D

EPA Records

Mail Code 3WP22
1650 Arch Street
Philadelphia, PA 19103-2029
[215] 854-5461
Hoyer.andre@epa.gov

U.S. EPA

Fax

To:	Chris Mulry /GES, Inc.	**From:**	Andre Hoyer
Fax:	410 721 3733	**Pages:**	3
Phone:		**Date:**	2 November 2009
Re:	Your request sent to R. Reinhart	**cc:**	

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

• **Comments:**

Monitoring well information for Great Falls Shopping Center.

Andre Hoyer

Compliance & Enforcement

Ground Water and Enforcement Branch

SR 681

Domino's Pizza / Great Falls

Romantic Deli & Pizzaria

Mediteranean Cafe

193

Great Falls

Ahoy's T J Cinnamons

GEORGETOWN PIKE

Great Falls Exxon

193

Picasso Gallery 2

193

The Tavern At Great Falls

Brookfield Plaza Shell / Great Falls Shell

SR 681

VILLAGE CENTRE

Peking Delight

⊗ Monitoring wells at property boundary

Data use subject to license.

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www.delorme.com

TN

MN (10.6°W)

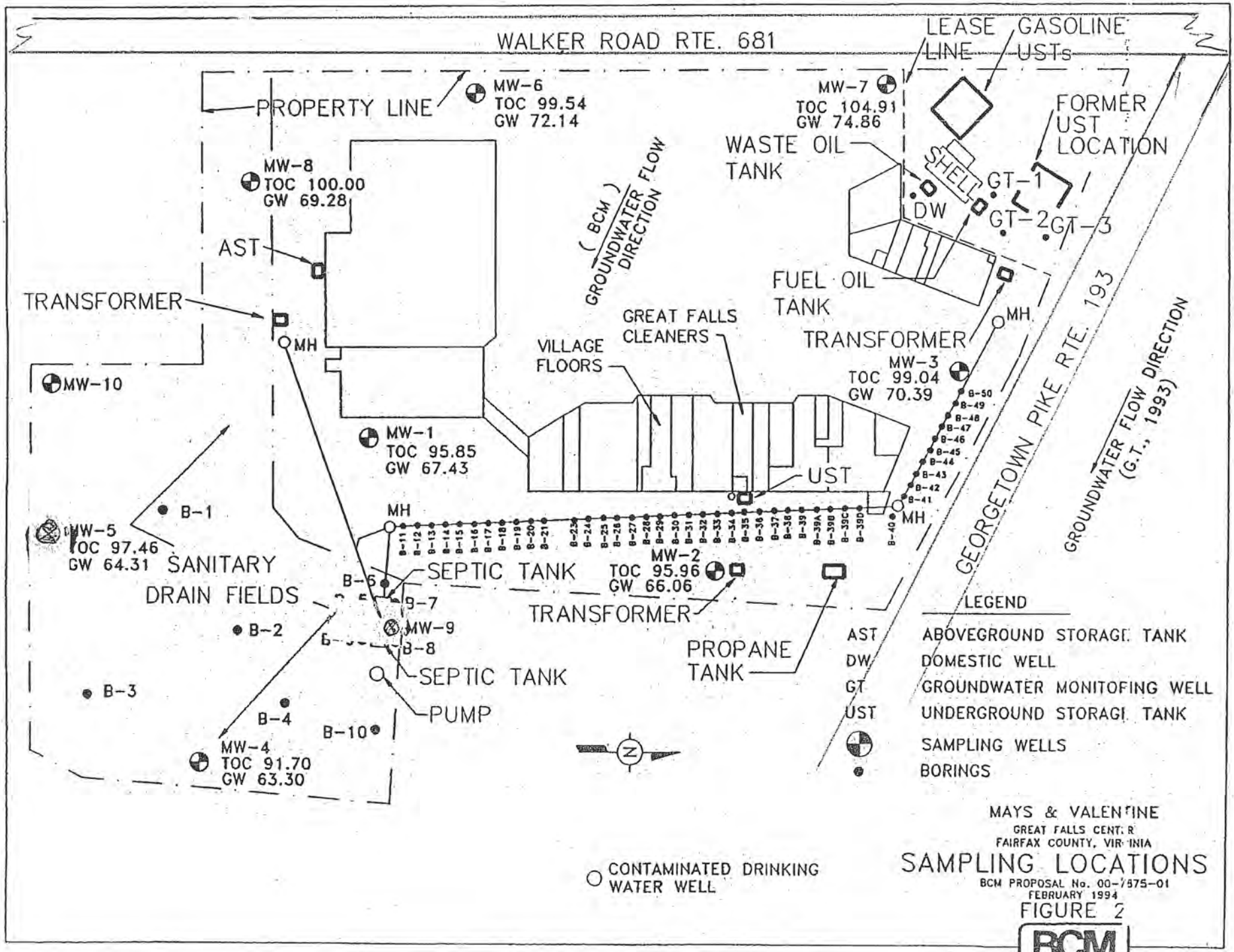
Scale 1 : 1,600

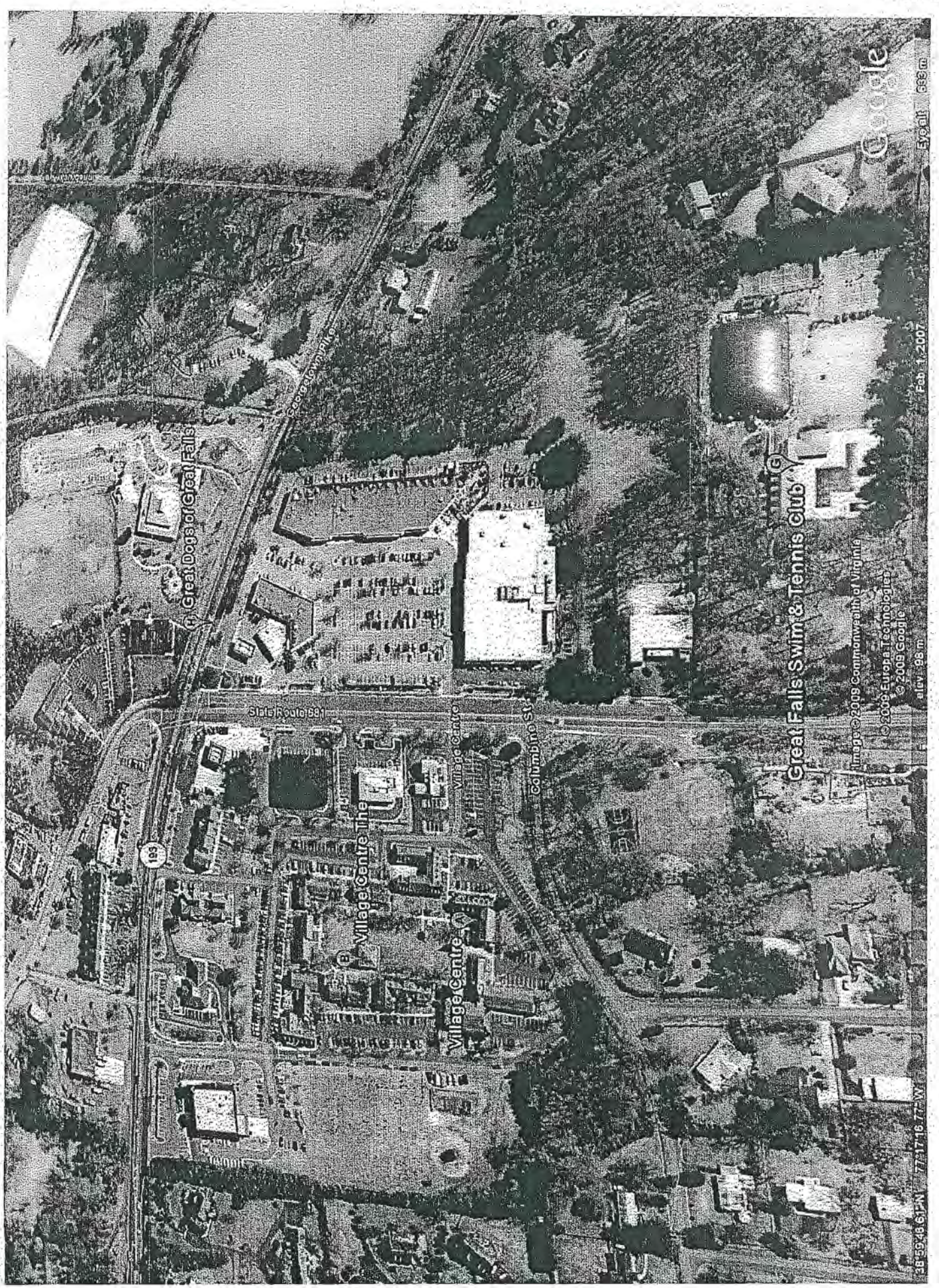
0 40 80 120 160 200 ft

0 14 28 42 56 70 m

1" = 133.3 ft

Data Zoom 17-0


WALKER ROAD RTE. 681
LEASE LINE
GASOLINE USTs
PROPERTY LINE
MW-6
TOC 99.54
GW 72.14
MW-7
TOC 104.91
GW 74.86
FORMER UST LOCATION
WASTE OIL TANK
SHELL
GT-1
DW
GT-2
GT-3
MW-8
TOC 100.00
GW 69.28
(BCM) GROUNDWATER FLOW DIRECTION
AST
FUEL OIL TANK
TRANSFORMER
MH
GREAT FALLS CLEANERS
VILLAGE FLOORS
TRANSFORMER
MH
MW-3
TOC 99.04
GW 70.39
MW-10
MW-1
TOC 95.85
GW 67.43
UST
GEORGETOWN PIKE RTE. 193
GROUNDWATER FLOW DIRECTION (G.T., 1993)
B-1
MW-5
TOC 97.46
GW 64.31
SANITARY DRAIN FIELDS
MH
SEPTIC TANK
MW-2
TOC 95.96
GW 66.06
B-6
B-7
MW-9
B-8
TRANSFORMER
B-2
SEPTIC TANK
PROPANE TANK
B-3
PUMP
B-4
B-10
MW-4
TOC 91.70
GW 63.30
LEGEND
AST ABOVEGROUND STORAGE TANK
DW DOMESTIC WELL
GT GROUNDWATER MONITOFING WELL
UST UNDERGROUND STORAGE TANK
SAMPLING WELLS
BORINGS
CONTAMINATED DRINKING WATER WELL
MAYS & VALENTINE
GREAT FALLS CENTER
FAIRFAX COUNTY, VIRGINIA
SAMPLING LOCATIONS
BCM PROPOSAL No. 00-7575-01
FEBRUARY 1994
FIGURE 2
BCM


Great Dogs of Great Falls
Seven Corners Pike
State Route 681
Village Centre The
Village Centre
Village Centre
Columbine St
Great Falls Swim & Tennis Club
Image © 2009 Commonwealth of Virginia
© 2009 Europa Technologies
© 2009 Google
elev 98 m
Google
Eye alt 633 m
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

August 26, 2009

OFFICE OF
ENVIRONMENTAL INFORMATION

Mr. Brandon Lessner
Groundwater and Environmental Services
2142 Priest Bridge Court
Crofton, MD 21114

RE: Request Number 03-RIN-01097-09

Dear Mr. Lessner:

This is in response to your request for expedited processing in connection with your Freedom of Information Act ("FOIA"), 5 U.S.C. § 552, request for a copy of records regarding Great Falls Center Cleaners at 9847 Georgetown Pike, Great Falls, Virginia 22066.

We have reviewed your submission and based on the information provided, we are denying your request for expedited processing. You have not demonstrated that the lack of expedited treatment could reasonably be expected to pose an imminent threat to the life or physical safety of an individual. The US Environmental Protection Agency (EPA) Region 3 office in Philadelphia, PA will respond to your request for information.

You may appeal this denial to the National Freedom of Information Office, US EPA, FOIA and Privacy Branch, 1200 Pennsylvania Avenue, N.W. (2822T), Washington, DC 20460 (US Postal Service only), Fax: (202) 566-2147, e-mail: hq.foia@epa.gov. Only items mailed through the US Postal Service may be delivered to 1200 Pennsylvania Avenue, NW. If you are submitting your appeal via hand delivery, courier service or overnight delivery, you must address your correspondence to 1301 Constitution Avenue, NW, Room 6416J, Washington, DC 20004. Your appeal must be made in writing, and it must be submitted no later than 30 calendar days from the date of this letter. The Agency will not consider appeals received after the 30 calendar day limit. The appeal letter should include the RIN listed above. For quickest possible handling, the appeal letter and its envelope should be marked "Freedom of Information Act Appeal."

If you have any questions, please contact me at 202-566-1667.

Sincerely,

Larry F. Gottesman
National FOIA Officer

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

Brandon Lessner
Groundwater and Environmental Services
2142 Priest Bridge Court
Crofton, Md 21114

SEP - 9 2009

Re: Great Falls Center Cleaners
Freedom of Information Act Request: # 03-RIN-01097-09

Dear Mr. Lessner:

In response to the above-referenced Freedom of Information Act (FOIA) request, dated August 24, 2009, and received on August 25, 2009, please be advised that the Resource Conservation and Recovery Act (RCRA) Program, the Toxics Programs Branch, and the Pesticides/Asbestos Programs Branch, Land and Chemicals Division, processed your request and found no responsive information.

You may appeal this response to the National Freedom of Information Officer, U.S. EPA, Records, FOIA and Privacy Branch, 1200 Pennsylvania Avenue, NW (2822T), Washington, DC 20460, Fax: (202) 566-2147, E-mail: hq.foia@epa.gov. Only items mailed through the United States Postal Service may be delivered to 1200 Pennsylvania Avenue, NW. If you are submitting your appeal via hand delivery, courier service or overnight delivery, you must address your correspondence to 1301 Constitution Avenue, N.W., Room 6416J, Washington, DC 20004. Your appeal must be made in writing, and it must be submitted no later than 30 calendar days from the date of this letter. The Agency will not consider appeals received after the 30 calendar day limit. The appeal letter should include the RIN listed above. For quickest possible handling, the appeal letter and its envelope should be marked "Freedom of Information Act Appeal."

If you have any questions, feel free to contact Christina Yannone, a member of my staff, at (215) 814-3349.

Sincerely,

Evelyn Velazquez

Evelyn Velazquez
Environmental Protection Specialist
Land and Chemicals Division

cc: Richard Van Holt (3PA00)

Printed on 100% recycled/recyclable paper with 100% post-consumer fiber and process chlorine free.
Customer Service Hotline: 1-800-438-2474

FAX TRANSMISSION

EPA - REGION 3
WASTE & CHEMICALS MANAGEMENT DIVISION
1650 ARCH STREET
PHILADELPHIA, PA 19103-2029

Date: 9/28/09 Number Page(s) 5 - includes cover sheet

To: Chris Mulleady
Phone: 800-220-3606 ext 3708
Fax: 410-721-3733

From: Christina Fonsone
Fax: (215) 814-3114
Phone: (215) 814-3349

Comments:

FOIA Report of Non-Sensitive Compliance Monitoring and Enforcement Data

Report run on: September 28, 2009 - 9:54 AM

Version 4.0

User Selection Criteria

Location:	Virginia, all activities	**Activity Location:**	None Chosen
Handler ID:	None Chosen	**Group of IDs:**	None Chosen
Handler Name:			
Handler Universe:	All Facilities Regardless of Universe		
Determined Date Range:	From: 10/01/1990 To: 09/28/2009		
Location County Code:		**Evaluation Type:**	
Location City:		**Focus Area:**	
Location Zip Code:	22066	**Violation Type:**	
State District:			
Sort Order:	Region, State, Handler Name		
Display Code Descrip.:	Yes		

Results

Data meeting the criteria you selected follows.

Total Pages: 4 Total Handlers: 1

Report Description

This report presents available information from the Resource Conservation and Recovery Act Information System (RCRAInfo) about compliance evaluations, violations, and enforcement actions meeting the criteria supplied by the user. Evaluations showing no violations does not always indicate that no violations were determined. Violation without enforcement actions does not always mean no enforcement action will be issued. In order to avoid releasing enforcement sensitive information to the public the following information is not shown on the report: pending civil / judicial referrals, criminal actions and referrals, and State to EPA referrals; all other enforcement actions are released.

Report Information

Name:	CMEFOIA.RDF
Developed by:	EPA Headquarters, Office of Enforcement and Compliance Assurance
Deployed:	June 2006
Last Updated:	April 2008
Contact:	rcrainfo.help@epa.gov
Tables Used:	cmecomp3, ccitation3, hreport_univ4, lu_citation, lu_state, hid_groups
Libraries:	none

FOIA Report of Non-Sensitive Compliance Monitoring and Enforcement Data

Report run on: September 28, 2009 - 9:54 AM

SEP-27-2009 11:19 P.03/05

WHITE STAR CLEANERS INC County Name / Code: FAIRFAX / VA059 **VAD981041106**

Location: 9847 GEORGETOWN PIKE; GREAT FALLS, VA 22066 **REGION 03**

Mailing: 3039 GRAHAM RD; FALLS CHURCH, VA 22042

Activity Location: VA | State District: 4 | Accessibility: | Non-Notifier: | Extract Flag: Y | Active Site: N

Generator:	N	Transporter:	N	Operating TSDF:	—	IC In Place:	N	EI Indicator (HE / GW):	N / N
Full Enforcement:	—	Converter:	—	State Unaddressed SNC:	N	EPA Unaddressed SNC:	N		
CA Wrkld:	N	State TSDF:	—	State Addressed SNC:	N	EPA Addressed SNC:	N		
Active State Gen:	N			State SNC w/Comp Sched:	N	EPA SNC w/Comp Sched:	N		

Evaluations With No Violations:

CEI Evaluation 01/03/2003 Activity Location: VA By: State Identifier: 001 Person: R4LAD Branch: NR Found Violation: NO
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

Total Number of Handlers: 1
Total Number of Activity Locations: 1

* End of Report *

* Note: Penalty amount may not reflect all violations cited

FOIA Report of Non-Sensitive Compliance Monitoring and Enforcement Data

Report run on: September 28, 2009 - 9:54 AM

Description of codes used on the report:

Universes	Description of Universes
Generator	Indicates that the facility is a Large Quantity Generator (LQG), Small Quantity Generator (SQG), Conditionally Exempt Small Quantity Generator (CEG), or not a generator (N).
Transporter	Indicates that the facility Transports waste subject to RCRA regulations. ('Y' indicates that the facility is in this universe).
Operating TSDF	Indicates that the facility is a Treatment, Storage or Disposal facility subject to any type of enforcement. It then specifies the type of facility (L - Land Disposal; I - Incinerator; B - BIF; S - Storage; T - Treatment)
IC in Place	Indicates that the facility has Institutional Controls in place. ('Y' indicates that the facility is in this universe).
EI Indicator (HE / GW)	Indicates that the facility has controls in place for Environmental Indicators. HE - Human Exposures ('+' indicates the exposure exists and is under control; '-' indicates the exposure exists and is not under control; 'N' indicates the exposure does not exist) GW - Groundwater Release ('+' indicates the exposure exists and is under control; '-' indicates the exposure exists and is not under control; 'N' indicates the exposure does not exist)
Full Enforcement	Indicates that the facility is a Treatment, Storage or Disposal facility which is part of the Full Enforcement universe. It then specifies the type of facility (L - Land Disposal; I - Incinerator; B - BIF; S - Storage; T - Treatment)
CA Workload	Indicates that the facility is part of the Corrective Action Workload universe. ('Y' indicates that the facility is in this universe).
Active State Gen	Indicates that the facility is an Active State Generator. ('Y' indicates that the facility is in this universe).
Converter	Indicates that the facility is a Converter Treatment, Storage or Disposal facility. It then specifies the type of facility (L - Land Disposal; I - Incinerator; B - BIF; S - Storage; T - Treatment)
State TSDF	Indicates that the facility is a State Treatment, Storage or Disposal facility. It then specifies the type of facility (L - Land Disposal; I - Incinerator; B - BIF; S - Storage; T - Treatment)
State Unaddressed SNC	Indicates that the facility is a State Unaddressed Significant Non-Complier. ('Y' indicates that the facility is in this universe).
State Addressed SNC	Indicates that the facility is a State Addressed Significant Non-Complier. ('Y' indicates that the facility is in this universe).
State SNC w/ Compl. Sched	Indicates that the facility is a State Significant Non-Complier with a Compliance Schedule. ('Y' indicates that the facility is in this universe).
EPA Unaddressed SNC	Indicates that the facility is an EPA Unaddressed Significant Non-Complier. ('Y' indicates that the facility is in this universe).
EPA Addressed SNC	Indicates that the facility is an EPA Addressed Significant Non-Complier. ('Y' indicates that the facility is in this universe).
EPA SNC w/ Compl. Sched	Indicates that the facility is a EPA Significant Non-Complier with a Compliance Schedule. ('Y' indicates that the facility is in this universe).

* Note: Penalty amount may not reflect all violations cited

OIA Report of Non-Sensitive Compliance Monitoring and Enforcement Data

eport run on: September 28, 2009 - 9:54 AM

Description of codes used on the report:

ACCESSIBILITY - indicates the reason why the handler is not accessible for normal RCRA tracking and processing (previously called Bankrupt Indicator):

Code	Description
B	indicates that the handler has filed for bankruptcy and bankruptcy litigation is in process.
C	indicates that all RCRA responsibilities for permitting/closure, corrective action, and compliance monitoring and enforcement at the facility have been formally transferred to the CERCLA program or state equivalent.
F	indicates that all responsible parties (owners/operators) for the handler have fled the country or are otherwise not available for prosecution.
L	indicates that the handler's case is tied up in litigation to the extent that further progress in achieving RCRA compliance through normal enforcement is not possible.

NON-NOTIFIER - indicates that the handler has been identified through a source other than Notification and is suspected of conducting RCRA-regulated activities without proper authority:

Code	Description
E	indicates that the handler was initially a non-notifier, subsequently determined to be exempt from requirements to notify.
O	indicates that the handler is a former non-notifier.
X	indicates that the handler is a non-notifier.

Evaluation Type	Type Description
CEI	COMPLIANCE EVALUATION INSPECTION ON-SITE

* Note: Penalty amount may not reflect all violations cited.

APPENDIX E

Tank Testing Results

Tanknology

TANKNOLOGY CERTIFICATE OF TESTING

8501 N MOPAC EXPRESSWAY, SUITE 400 AUSTIN, TEXAS 78759
TELEPHONE (512) 451-6334 FAX (512) 459-1459

TEST RESULT SUMMARY REPORT

PURPOSE: EMERGENCY

TEST DATE: 08/12/09

WORK ORDER NUMBER: 8264096

CUSTOMER PO: 71505244

CLIENT: FM FACILITY MAINTENANCE
10 COLUMBUS BLVD.
4TH FLOOR
HARTFORD, CT 06106
ACCOUNTS PAYABLE
(877)860-7400

SITE: EXXON 26140
9901 GEORGETOWN PIKE
GREAT FALLS, VA 22066

STORE MANAGER
(703)759-3367

Tank Tightness Tests Results

TEST TYPE: VacuTect

TANK ID		PRODUCT	TANK CAPACITY	TANK DIAMETER	TANK MATERIAL	PRODUCT LEVEL	EXTERNAL* WATER LEVEL	TEST RESULT
#3	1	PREMIUM	9,728	92.00	FIBERGLASS	37.00	147.00	PASS
	2	MIDGRADE	9,728	92.00	FIBERGLASS	29.00	147.00	PASS
#1	3	REGULAR	11,627	92.00	FIBERGLASS	55.00	147.00	PASS

*Where regulations require, for VacuTect external water level may be depth of dry well or water is assumed at lowest point that can be confirmed dry.

Product Pipe Tightness Test Results

LINE ID		LINE MATERIAL	DELIVERY TYPE	TEST RESULT A	TEST RESULT B	TEST RESULT C	TEST RESULT D	FINAL LEAK RATE (gph) A	FINAL LEAK RATE (gph) B	FINAL LEAK RATE (gph) C	FINAL LEAK RATE (gph) D	TEST METHOD	IMPACT VALVE FUNCTION
#3	1	GEO FLEX	PRESSURE	P				0.000				TLD-1	Y
	2	GEO FLEX	PRESSURE	P				0.000				TLD-1	Y
#1	3	GEO FLEX	PRESSURE	P				0.000				TLD-1	Y

Existing Line Leak Detector Test

LINE ID		EXISTING LEAK DETECTOR #1 MANUFACTURER	EXISTING LEAK DETECTOR #1 MODEL #	EXISTING LEAK DETECTOR #1 SERIAL #	EXISTING LEAK DETECTOR #1 RESULT	EXISTING LEAK DETECTOR #2 MANUFACTURER	EXISTING LEAK DETECTOR #2 MODEL #	EXISTING LEAK DETECTOR #2 SERIAL #	EXISTING LEAK DETECTOR #2 RESULT
#3	1								
	2								
#1	3								

New Replacement Line Leak Detector Test

LINE ID	REPLACED LEAK DETECTOR #1 MANUFACTURER	REPLACED LEAK DETECTOR #1 MODEL #	REPLACED LEAK DETECTOR #1 SERIAL #	REPLACED LEAK DETECTOR #1 RESULT	REPLACED LEAK DETECTOR #2 MANUFACTURER	REPLACED LEAK DETECTOR #2 MODEL #	REPLACED LEAK DETECTOR #2 SERIAL #	REPLACED LEAK DETECTOR #2 RESULT

For owner detailed report information, visit www.tanknology.com and select On-Line Reports-WRAP, or contact your local Tanknology office.

Tester Name: **CHARLES ELINE**

Technician Certification Number: **10289**

Charles B Eline

INDIVIDUAL TANK INFORMATION AND TEST RESULTS

Tanknology

TEST DATE: 08/12/09
CLIENT: FM FACILITY

8501 N MOPAC EXPRESSWAY, SUITE 400
AUSTIN, TEXAS 78759 (512) 451-6334

WORK ORDER NUMBER 8264096
SITE: EXXON 26140

TANK INFORMATION

Tank ID:	#3 1	Tank manifolded:	NO	Bottom to top fill in inches:	143.0
Product:	PREMIUM	Vent manifolded:	YES	Bottom to grade in inches:	151.0
Capacity in gallons:	9,728	Vapor recovery manifolded:	YES	Fill pipe length in inches:	52.0
Diameter in inches:	92.00	Overfill protection:	YES	Fill pipe diameter in inches:	4.0
Length in inches:	342	Overspill protection:	YES	Stage I vapor recovery:	DUAL
Material:	FIBERGLASS	Installed:	ATG	Stage II vapor recovery:	ASSIST
		CP installed on:	/ /		

COMMENTS

TANK TEST RESULTS Test Method: VacuTect

	Start (in)	End (in)
Dipped Water Level:	0.00	0.00
Dipped Product Level:	37.00	37.00
Probe Water Level:	0.040	0.040

Ingress Detected: Water N Bubble N Ullage N

Test time:	12:24-13:36
Inclinometer reading:	0.00
VacuTect Test Type:	Single tank
VacuTect Probe Entry Point:	Gauge
Pressure Set Point:	-1.00
Tank water level in inches:	0.00
Water table depth in inches:	147.00
Determined by (method):	MONTR WELL
Result:	PASS

COMMENTS

LEAK DETECTOR TEST RESULTS Test method: LT-1

	New/passed L.D. #1	Failed/replaced L.D. #1	New/passed L.D. #2	Failed/replaced L.D. #2
Make:				
Model:				
S/N:				
Open time in sec:				
Holding psi:				
Resiliency cc:		NOT TESTED		NOT TESTED
Test leak rate ml/m:				
Metering psi:				
Calib. leak in gph:				
Results:				

COMMENTS

LINE TEST RESULTS Test type: TLD-1

LINE	A	B	C	D
Material:	GEO FLEX			
Diameter (in):	2.0			
Length (ft):	100.0			
Test psi:	50			
Bleedback cc:	39			
Test time (min):	60	NOT TESTED	NOT TESTED	NOT TESTED
Start time:	10:10			
End time:	11:10			
Final gph:	0.000			
Result:	PASS			
Pump type:	PRESSURE			
Pump make:	FE PETRO			

COMMENTS

Impact Valves Operational: YES

tested prm line from disp 3/4 back to ball valve all passed

Printed 08/20/2009 16:23

INDIVIDUAL TANK INFORMATION AND TEST RESULTS

Tanknology

TEST DATE: **08/12/09**
CLIENT: **FM FACILITY**

8501 N MOPAC EXPRESSWAY, SUITE 400
AUSTIN, TEXAS 78759 (512) 451-6334

WORK ORDER NUMBER **8264096**
SITE: **EXXON 26140**

TANK INFORMATION

Tank ID:	2	Tank manifolded:	NO	Bottom to top fill in inches:	143.0
Product:	MIDGRADE	Vent manifolded:	YES	Bottom to grade in inches:	149.0
Capacity in gallons:	9,728	Vapor recovery manifolded:	YES	Fill pipe length in inches:	51.0
Diameter in inches:	92.00	Overfill protection:	YES	Fill pipe diameter in inches:	4.0
Length in inches:	342	Overspill protection:	YES	Stage I vapor recovery:	DUAL
Material:	FIBERGLASS	Installed:	ATG	Stage II vapor recovery:	ASSIST
		CP installed on:	/ /		

COMMENTS

TANK TEST RESULTS

Test Method: **VacuTect**

	Start (in)	End (in)
Dipped Water Level:	0.00	0.00
Dipped Product Level:	29.00	29.00
Probe Water Level:	0.042	0.043

Ingress Detected: Water **N** Bubble **N** Ullage **N**

Test time:	11:00-12:12
Inclinometer reading:	0.00
VacuTect Test Type:	Single tank
VacuTect Probe Entry Point:	Gauge
Pressure Set Point:	-1.00
Tank water level in inches:	0.00
Water table depth in inches:	147.00
Determined by (method):	MONTR WELL
Result:	PASS

COMMENTS

LEAK DETECTOR TEST RESULTS

Test method: **LT-1**

	New/passed L.D. #1	Failed/replaced L.D. #1	New/passed L.D. #2	Failed/replaced L.D. #2
Make:				
Model:				
S/N:				
Open time in sec:				
Holding psi:				
Resiliency cc:		NOT		NOT
Test leak rate ml/m:		TESTED		TESTED
Metering psi:				
Calib. leak in gph:				
Results:				

COMMENTS

LINE TEST RESULTS

Test type: **TLD-1**

	LINE A	B	C	D
Material:	GEO FLEX			
Diameter (in):	2.0			
Length (ft):	100.0			
Test psi:	50			
Bleedback cc:	42			
Test time (min):	60	NOT	NOT	NOT
Start time:	09:10	TESTED	TESTED	TESTED
End time:	10:00			
Final gph:	0.000			
Result:	PASS			
Pump type:	PRESSURE			
Pump make:	FE PETRO			

COMMENTS

Impact Valves Operational: **YES**

TESTED MID GRADE LINE FROM DISP 3/4 BACK TO BALL VALVE ALL PASSED

Printed 08/20/2009 16:23

INDIVIDUAL TANK INFORMATION AND TEST RESULTS

Tanknology

TEST DATE: 08/12/09
CLIENT: FM FACILITY

8501 N MOPAC EXPRESSWAY, SUITE 400
AUSTIN, TEXAS 78759 (512) 451-6334

WORK ORDER NUMBER 8264096
SITE: EXXON 26140

TANK INFORMATION

Tank ID:	#1 3	Tank manifolded:	NO	Bottom to top fill in inches:	150.5
Product:	REGULAR	Vent manifolded:	YES	Bottom to grade in inches:	156.5
Capacity in gallons:	11,627	Vapor recovery manifolded:	YES	Fill pipe length in inches:	59.0
Diameter in inches:	92.00	Overfill protection:	YES	Fill pipe diameter in inches:	4.0
Length in inches:	409	Overspill protection:	YES	Stage I vapor recovery:	DUAL
Material:	FIBERGLASS	Installed:	ATG	Stage II vapor recovery:	ASSIST
		CP installed on:	/ /		

COMMENTS

TANK TEST RESULTS

Test Method: VacuTect

	Start (in)	End (in)
Dipped Water Level:	0.00	0.00
Dipped Product Level:	55.00	55.00
Probe Water Level:	0.041	0.041

Ingress Detected: Water N Bubble N Ullage N

Test time:	09:37-10:40
Inclinometer reading:	0.00
VacuTect Test Type:	Single tank
VacuTect Probe Entry Point:	Gauge
Pressure Set Point:	-1.00
Tank water level in inches:	0.00
Water table depth in inches:	147.00
Determined by (method):	MONTR WELL
Result:	PASS

COMMENTS

LEAK DETECTOR TEST RESULTS

Test method: LT-1

	New/passed L.D. #1	Failed/replaced L.D. #1	New/passed L.D. #2	Failed/replaced L.D. #2
Make:				
Model:				
S/N:				
Open time in sec:				
Holding psi:				
Resiliency cc:		NOT TESTED		NOT TESTED
Test leak rate ml/m:				
Metering psi:				
Calib. leak in gph:				
Results:				

COMMENTS

LINE TEST RESULTS

Test type: TLD-1

LINE	A	B	C	D
Material:	GEO FLEX			
Diameter (in):	2.0			
Length (ft):	100.0			
Test psi:	50			
Bleedback cc:	42			
Test time (min):	60	NOT TESTED	NOT TESTED	NOT TESTED
Start time:	09:00			
End time:	10:00			
Final gph:	0.000			
Result:	PASS			
Pump type:	PRESSURE			
Pump make:	FE PETRO			

COMMENTS

Impact Valves Operational: YES

TESTED REG LINE FROM DISP 3/4 BACK TO BALL VALVE ALL PASSED

Printed 08/20/2009 16:23

CERTIFICATE OF STAGE II VAPOR RECOVERY TESTING

Tanknology
8501 N MOPAC EXPRESSWAY, SUITE 400
AUSTIN, TEXAS 78759
(512) 451-6334
FAX (512) 459-1459

TEST DATE: **08/12/09**

WORK ORDER NUMBER: **8264096**

CLIENT: **FM FACILITY MAINTENANCE**
10 COLUMBUS BLVD.
4TH FLOOR
HARTFORD, CT 06106

ATTN: **ACCOUNTS PAYABLE**

SITE: **EXXON 26140**
9901 GEORGETOWN PIKE
GREAT FALLS, VA 22066

CONTACT: **STORE MANAGER**

PRODUCT	NOZZLE	DISPENSER	DYNAMIC BACK PRESSURE (DRY PRESSURE) inches of water at flow rates:						VAPOR BLOCKAGE TEST (WET PRESSURE) inches of water at flow rates:					
			20 cfh	40 cfh	60 cfh	80 cfh	100 cfh	Pass/ fail	20 cfh	40 cfh	60 cfh	80 cfh	100 cfh	Pass/ fail

PRESSURE DECAY TEST

TANK #	Init Press	1 min	2 min	3 min	4 min	5 min	Allowable decay	Ullage space	Result	COMMENTS
#3 1	2.00	2.00	2.00	2.00	1.99	1.99	1.94	15606	PASS	24 Nozzle - Assist System
#1 3	0.00	0.00	0.00	0.00	0.00	0.00				

Tanknology appreciates the opportunity to serve you, and looks foward to working with you in the future. Please call any time, day or night, when you need us.

Tanknology representative:
TED BEZEL

Test conducted by:
CHARLES ELINE

Reviewed:

Technician Certification Number: **10289**

Printed 08/20/2009 16:23 ACRAMER

Tanknology
8501 N MOPAC EXPRESSWAY, SUITE 400
AUSTIN, TEXAS 78759
(512) 451-6334
FAX (512) 459-1459

TEST DATE: **08/12/09**

WORK ORDER NUMBER: **8264096**

CLIENT: **FM FACILITY MAINTENANCE**

SITE: **EXXON 26140**

COMMENTS

TESTED ALL TANKS,LINES,STAGE ONE AND STAGE TWO PD, ALL PASSED

PARTS REPLACED

QUANTITY	DESCRIPTION

HELIUM PINPOINT TEST RESULTS (IF APPLICABLE)

ITEMS TESTED

HELIUM PINPOINT LEAK TEST RESULTS

SITE DIAGRAM

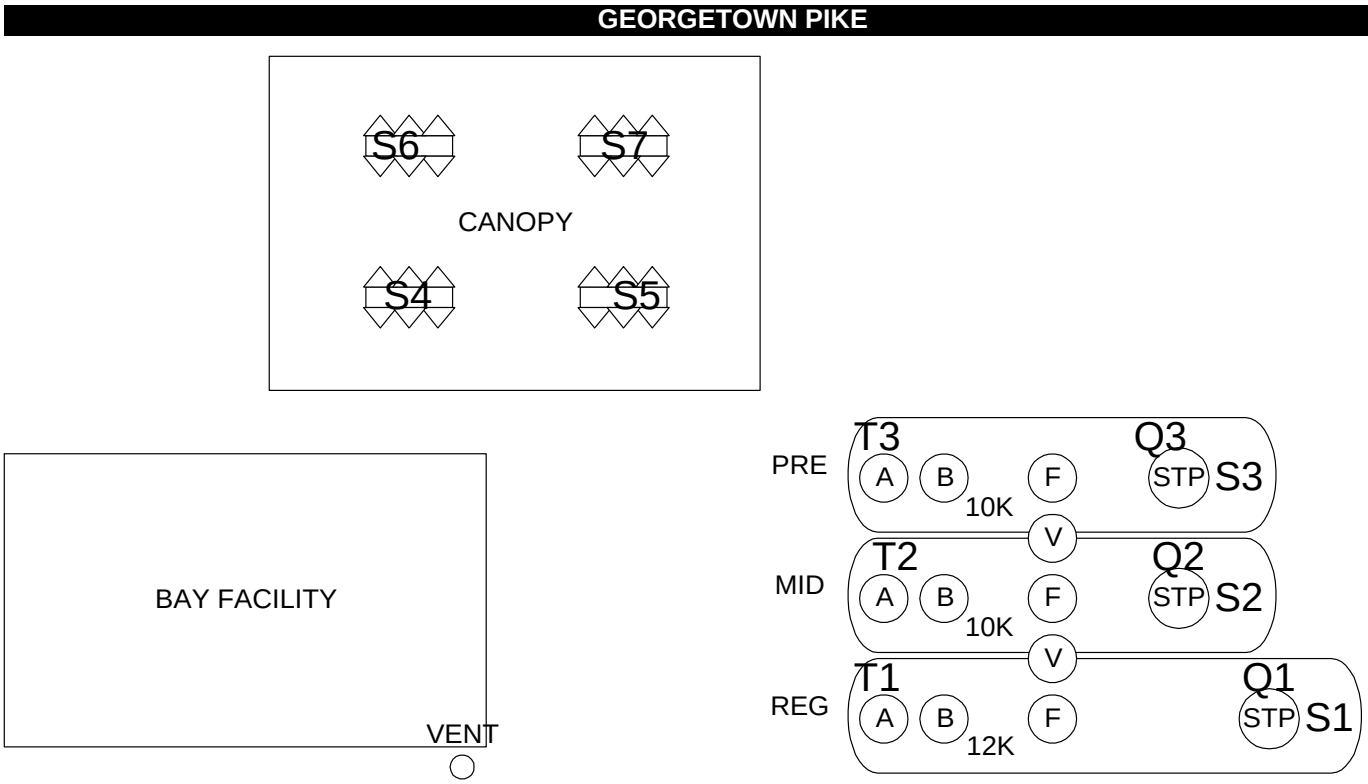
Tanknology
8501 N MOPAC EXPRESSWAY, SUITE 400
AUSTIN, TEXAS 78759
(512) 451-6334
FAX (512) 459-1459

TEST DATE: **08/12/09**

WORK ORDER NUMBER **8264096**

CLIENT: **FM FACILITY MAINTENANCE**

SITE: **EXXON 26140**



Printed 08/20/2009 16:23 ACRAMER

8501 N. MoPac Expressway, Suite 400
Austin, Texas 78759
Phone: (512) 451-6334
Fax: (512) 459-1459

EXXON 26140
9901 GEORGETOWN PIKE
GREAT FALLS, VA. 22066

Test Date: **08/12/2009**
Order #: **8264096**

Dear ExxonMobil Dealer,

Enclosed are the results of recent testing performed at your station. Please put these results in your compliance file as they need to be retained at the site address.

Testing Performed:
Tank Testing
Ullage Testing
Pressure Decay Testing
Line Testing
Impact Valve Testing

Sincerely,

Dawn Kohlmeyer

Dawn Kohlmeyer
Manager of Test Reporting - Tanknology

Tanknology

08/20/09

FM FACILITY MAINTENANCE
ACCOUNTS PAYABLE
10 COLUMBUS BLVD.
4TH FLOOR
HARTFORD, CT. 06106

Dear, ACCOUNTS PAYABLE

Attached please find the Document Certification Form and Stage II test results for your site located in the state of Virginia. The form must be signed by a Responsible Offical within your organization (as defined in 9 VAC 5-20-230, Subsection A) and must accompany the results when mailed to the appropriate office of the Department of Environmental Quality.

In accordance with 9 VAC 5-40-5220-F6c, certified test results shall be submitted to DEQ no later than 15 days after system testing is completed. Submittals that do not include a completed and signed DCF will be rejected.

Please sign the required form and mail to the DEQ regional office as indicated. If you have any questions, please feel free to contact me at (800) 666-1215.

Sincerely,

Theodore Bezel
Operations Manager
Tanknology, Inc.
100 Dobbs Lane, Suite 205
Cherry Hill, NJ 08034

Document Certification

Facility Name: **EXXON 26140**

Registration No: **72628**

Facility Location: **9901 GEORGETOWN PIKE GREAT FALLS, VA 22066**

Type of Submittal Attached: **Stage II Testing - Pressure Decay**

Certification: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of Responsible Official (Print): Adriane R. Simon

Title: ExxonMobil Environmental Advisor

Signature: A.R. Simon Date: 08/20/09

Tanknology WorkOrder#: 8264096

Work Order: 8264096

Tanknology Inc.
8501 N. MoPac Expressway, Suite 400 Austin, TX 78759 (800) 964-0010

JOB CLEARANCE FORM & SITE SAFETY CHECKLIST – OVF

Policy 100-29-A
Rev: D
Revised: 8/04/2008

Site Name/#:	Street Address:	W.O. #
Exxon 26140	4901 Georgetown Rd Great Falls VA	8264096

Arrival Time:	Departure Time:	Travel Time:	Others on site:	Date
0830	1400	2.		8-12-09

Scope of Work and Tasks Performed (JSA's must be available for all tasks): TST Cert, Cond Tests, PR

Repairs to Equipment or Parts Provided:

Follow-up actions required; equipment isolated; comments:

PPE - PERSONAL PROTECTIVE EQUIPMENT REQUIRED (Check items used or mark ~ if not applicable)

- ☑ Safety Vest
- ☑ Steel Toe Boots
- ☑ Safety Glasses
- ☑ Splash Goggles
- ☑ Gloves
- ☐ Hard Hat
- ☐ Hearing Protection
- ☐ Other _____

✓ PRE-TEST PROCEDURES (Check each item completed or mark ~ if not applicable)

1. ☑ Discuss safety procedures with site personnel. Nearest hospital: Great Falls
2. ☑ Prior to fuel deliveries the UST system must be placed back into working order.
3. ☑ Secure entire work area with barricades (cones, flags, and caution tape, pennant flags, or other perimeter guard).
4. ☑ Place fire extinguishers and "No Smoking" signs in the work area.
5. ☑ Implement Lockout/Tagout per API 1646 (when accessing product piping during tasks)
   - ☑ All applicable equipment disabled during test(s).
   - ☑ Secure nozzles with "Out of Service" bags and nylon ties.
   - ☑ Close ball valves or check valves on product piping.
   - ☑ Secure the circuit breaker(s) with lockout devices and tags.
   - ☑ Verify LOTO is complete by trying to operate pumps.
   - ☑ Disconnect electrical "bayonet" connector from the STP(s).

SIGN IN

General Safety Checks:
All site personnel have been informed.
Fuel delivery has been informed.
Is a fuel delivery due today? _____
LOTO procedures have been discussed and agreed.
Work areas barricaded to protect workers, staff & public.

Lead Technician Name	Lead Technician Signature
C. Blue	[signature]
Site Representative Name	**Site Representative Signature**
SAMAN LIMOUEE	[signature]

I have discussed job clearance form with technician.

✓ POST-TEST PROCEDURES (Check each item completed or mark ~ if not applicable)

1. ☑ Remove all "Lockout/Tagout" devices.
2. ☑ Run all pumps and verify there are no leaks:
   - ☑ Leak Detector Threads on STP's
   - ☑ Impact Valve Test Ports under dispensers
   - ☑ Functional Elements & Relief Screws
3. ☑ Install lead wire seal on all test plugs & leak detectors that were serviced.
   Count LD threads: L1 ____ L2 ____ L3 ____ L4 ____ L5 ____ L6 ____
4. ☑ Check following components operational:
   - ☑ Ball floats, dry breaks & caps
   - ☑ Containment sumps are dry
   - ☑ Dispenser panels are replaced
   - ☑ Leak detectors & vent tubes
   - ☑ Monitoring system is operational
   - ☑ Siphon lines and manifold valves
   - ☑ STP fittings and bayonet connectors
   - ☑ ATG probes, sensors, & caps
   - ☑ Cathodic protection operational
   - ☑ Dispensers & POS operational
   - ☑ Drop tubes, fill adapters & caps
   - ☑ Manhole covers and sump lids
   - ☑ Shear valves are open
   - ☑ Siphon lines and manifold valves
   - ☑ Vents (not capped, plugged or isolated)
5. ☑ Remove barricades.

SIGN OUT & Operator Verification of Work (OVF)

General Safety Checks:
Work area has been left tidy & safe.
Site staff are aware of work status including any remaining isolation.
Changes to equipment are documented and communicated.
All incidents, near incidents, and unsafe situations reported.

Lead Technician Name	Lead Technician Signature
[signature]	[signature]
Site Representative Name	**Site Representative Signature**
SAMAN LIMOUEE	[signature]

Site Representative Comments: All TST passed.

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Work Order: 8264096

Tanknology

Confined Space Entry Checklist/Permit

Safety Policy 100-06-A-Entry Permit Rev C

Rev: C
Date Effective: 9/08/2005

Field Form

Instructions: Tanknology requires that this form is completed for all jobs that involve ANY work in forecourt (tankfield). A copy must be submitted with the raw data file. Sections I and II must be completed for all sites. Sections III and IV to be completed as appropriate.

SECTION I GENERAL INFORMATION

Date: 8-12-09	W.O.#: 826 4096
Site Name/#: Exxm 22846 26440	Technician(s): [illegible]
Scope of Work: Test Reg 2 Tank	List potential confined spaces: ✓ STP Sump ☐ Fill Sump ☐ Vault ☐ Other:

SECTION II NO CONFINED SPACE ENTRIES PERFORMED AT SITE

A. ___ Work performed does not require removing sump lids
B. ___ Work only requires visual observation into sumps
C. ✓ All work will be conducted without bodily entry using tools
D. ___ All work performed will be completed from prone position with no risk of falling in sump.
E. ___ No confined spaces present. Describe: _____
F. ___ Work requires entry, proceed to section III

Lead Technician Signature [signature] **Date** 8-12-09

SECTION III ALTERNATE ENTRY / NON-PRCS RECLASSIFICATION

A. Alternate Entry (check to confirm that ALL requirements are satisfied)

1. _____All employees trained
2. _____All other hazards eliminated (list) _____
3. _____Ventilation and monitoring prior to entry demonstrate ability to maintain safe atmosphere
4. _____Continuous ventilation and monitoring during entry
5. _____No customer or other requirements to classify space as permit-required
6. _____If work performed can change atmosphere Alternate Entry will be cancelled

B. Atmospheric Tests Monitoring Equipment Make/Model: _____ Cal. Date: _____ Bump tested (Y/N)_____

Test must be taken in the following order: Test to be Taken	Acceptable Limit	Test Results							
Name of Space (may list multiple spaces)	Reg STP,, etc.								
Depth to bottom of space	Feet/Inches								
TIME	HOUR / MINUTE								
% of OXYGEN (O_2)	19.5-23.5%								
% of LEL flammable concentrations	= 0 (none)								
OTHER (if applicable) _____	Toxic (or N/A)								
Initials of Lead Technician	Initials								

C. Safety Requirements (Applies to all C.S. Entries)	Yes	No	N/A	Comments
1. Area barricaded	___	___	___	___
2. Lockout/Tagout completed and verified	___	___	___	___
3. Sources of ignition controlled	___	___	___	___
4. Pressure relieved from piping	___	___	___	___
5. Cleaning (flushing/washing) done	___	___	___	___
6. Hotwork permit obtained	___	___	___	___
7. Other_____	___	___	___	___

SECTION III CONTINUED ON NEXT PAGE

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Work Order: 8264096

107650 EXXON 26140
9901 GEORGETOWN PIKE
GREAT FALLS VA
703-759-3367

AUG 12, 2009 8:25 AM

SYSTEM STATUS REPORT

ALL FUNCTIONS NORMAL

INVENTORY REPORT

T 1:REGULAR

CAPACITY	=	11495 GALS
VOLUME	=	7977 GALS
ULLAGE	=	3518 GALS
HEIGHT	=	59.30 INCHES
WATER VOL	=	0 GALS
WATER	=	0.00 INCHES
TEMP	=	76.1 DEG F

T 2:PLUS

CAPACITY	=	9596 GALS
VOLUME	=	3015 GALS
ULLAGE	=	6581 GALS
HEIGHT	=	32.84 INCHES
WATER VOL	=	0 GALS
WATER	=	0.00 INCHES
TEMP	=	77.7 DEG F

T 3:SUPER

CAPACITY	=	9596 GALS
VOLUME	=	4089 GALS
ULLAGE	=	5507 GALS
HEIGHT	=	40.66 INCHES
WATER VOL	=	0 GALS
WATER	=	-0.09 INCHES
TEMP	=	78.8 DEG F

* * * * * END * * * * *

107650 EXXON 26140
9901 GEORGETOWN PIKE
GREAT FALLS VA
703-759-3367

AUG 12, 2009 1:47 PM

SYSTEM STATUS REPORT

ALL FUNCTIONS NORMAL

INVENTORY REPORT

T 1:REGULAR

CAPACITY	=	11495 GALS
VOLUME	=	7688 GALS
ULLAGE	=	3807 GALS
HEIGHT	=	57.47 INCHES
WATER VOL	=	0 GALS
WATER	=	0.00 INCHES
TEMP	=	76.1 DEG F

T 2:PLUS

CAPACITY	=	9596 GALS
VOLUME	=	2996 GALS
ULLAGE	=	6600 GALS
HEIGHT	=	32.70 INCHES
WATER VOL	=	2 GALS
WATER	=	0.25 INCHES
TEMP	=	77.7 DEG F

T 3:SUPER

CAPACITY	=	9596 GALS
VOLUME	=	3964 GALS
ULLAGE	=	5632 GALS
HEIGHT	=	39.78 INCHES
WATER VOL	=	0 GALS
WATER	=	0.02 INCHES
TEMP	=	98.7 DEG F

* * * * * END * * * * *

Work Order: **8264096**

CERTIFICATE OF UNDER GROUND STORAGE TANK SYSTEM TESTING

Crompco, LLC
1815 Gallagher Road
Plymouth Meeting, PA 19462

Phone: (610) 278-7203
Fax: (610) 278-7621

Work Order #243727	Client Information	Location #26140
Date: Fri Aug 28th, 2009 **Reason:** Maintenance **Compliance:** No	FM Facility Maintenance(Accounts Payable(Non-Compliance)) **Invoice #** **Permit#** **P.O.#** 72796204	Exxon Service Station 9901 Georgetown Pike Great Falls, VA 22066-0000 **County:** Fairfax **State ID:** 72628 **VR Air Quality #** 059S0457

Testing was conducted in accordance with all applicable portions of Federal, NFPA, and local regulations.

Vapor Recovery - Stage II

Test	Result
Pressure Decay	Fail

Miscellaneous Inspections

Test	Result
Enhanced LD: Tank Top	Pass

Secondary Containment: Lines

Equip #	Grade	Test	Result
1	Regular	Enhanced LD: Product Lines (Outer Wall)	Pass
3	Supreme	Enhanced LD: Product Lines (Outer Wall)	Pass
2	Plus	Enhanced LD: Product Lines (Outer Wall)	Fail

Additional Costs

PARTS: Epoxy Kit, Cap, Cap (3), Fill Adaptor Swivel, Dry Break Swivel (2), Fitting
EXPENSES: Emergency Test
HELIUM DETECTION PORTAL TO PORTAL: Helium Detection Hourly (45)

Comments

-Pressure Decay failure due to a leaking vac motor in dispenser 5/7.
-Plus secondary line failure due to leaking boot in dispenser 6/8 (connection between piping and 90 degree elbow).

Michael Ford

Ray Bailey

Crompco, LLC
1815 Gallagher Road
Plymouth Meeting, PA
19462

Exxon Service Station
Phone: (610) 278-7203
FAX: 610-278-7621

9901 Georgetown Pike
Great Falls, VA 22066-0000
State ID: 72628

Customer Copy
Site #26140 / WO #243727
Fri Aug 28th, 2009

Pressure Decay Test

Result: ☐ Pass ☐ Fail ☐ Inconclusive
Failure Reason: Pressure Decay failure is not due to an underground leak on the Stage II line, but attributed to tank and/or dispenser components

System Info

Vapor Recovery Type: ☐ Balance ☐ Vac Assist ☐ Inactive	Manufacturer: Gilbarco / Marconi CARB Executive Order Number: G-70-150-AE Number of Nozzles: 24 Stage 1 Type: Dual Point	Manifolded: ☐ Yes ☐ No

					Pressure (in H20)					
Grade	Capacity (gal)	Volume Present (gal)	Ullage (gal)	Init. Pressure (in H20)	1.0 min	2.0 min	3.0 min	4.0 min	5.0 min	Allowable
Regular	11495	5949	5546							
Plus	9596	2675	6921							
Premium	9596	3017	6579							
	30687	11641	19046	2.000	2.00	1.95	1.95	1.90	1.90	1.936

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State ID: 72628

Customer Copy
Site #26140 / WO #243727
Fri Aug 28th, 2009

Enhanced LD: Tank Tops

Date and Time of last fuel delivery: 08/27/2009 pm	**Total Tank Ullage (in gallons):** 19046
Corrections made prior to and during standard MD pressure decay test *(CARB TP-201.3)* Replaced all vapor caps Replaced both dry breaks Replaced Plus ATG cap Tightened Regular and Premium ATG caps	
After pressurizing the system to 1.0" water column, it has been confirmed that helium is present in all areas to be tested. ☐ Yes ☐ No	
Location and reading (in ppm) of any helium leaks at 1.0" water column pressure and repairs made: none	**Location and reading (in ppm) of any helium leaks at 5.0" water column pressure and repairs made:** none
Starting Pressure: 5.0" water column **Pressure (inches of water column) after 10 minutes:** 5	
Result: P	

Crompco, LLC
1815 Gallagher Road
Plymouth Meeting, PA
19462

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Great Falls, VA 22066-0000
State ID: 72628

Customer Copy
Site #26140 / WO #243727
Fri Aug 28th, 2009

Enhanced LD: Product Lines (Outer Wall)

Line Number: 1	**Grade:** Regular **Grade (Other):**
Line Length 130 **Testing Line Length** 130	**Dispenser Range** 1 - 8
Are boots and clamps present and are they capable of being tested? ☐ Yes ☐ No	**If No, Explain:**
Helium holds steady at 1.0 inch water column for 10 minutes? ☐ Yes ☐ No	**Helium holds steady at 5.0 inch water column for 10 minutes?** ☐ Yes ☐ No
Was any helium detected at the dispensers or STP sump using the Varian Helium Detector? ☐ Yes ☐ No	**If Yes, explain what actions were taken to fix the problem:**
Result: ☐ Unknown ☐ Pass ☐ Fail ☐ Inconclusive	

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1815 Gallagher Road
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State ID: 72628

Customer Copy
Site #26140 / WO #243727
Fri Aug 28th, 2009

Enhanced LD: Product Lines (Outer Wall)

Line Number: 3	**Grade:** Premium **Grade (Other):**
Line Length 130 **Testing Line Length** 130	**Dispenser Range** 1 - 8
Are boots and clamps present and are they capable of being tested? ☐ Yes ☐ No	**If No, Explain:**
Helium holds steady at 1.0 inch water column for 10 minutes? ☐ Yes ☐ No	**Helium holds steady at 5.0 inch water column for 10 minutes?** ☐ Yes ☐ No
Was any helium detected at the dispensers or STP sump using the Varian Helium Detector? ☐ Yes ☐ No	**If Yes, explain what actions were taken to fix the problem:**
Result: ☐ Unknown ☐ Pass ☐ Fail ☐ Inconclusive	

Crompco, LLC
1815 Gallagher Road
Plymouth Meeting, PA
19462

Exxon Service Station
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FAX: 610-278-7621

9901 Georgetown Pike
Great Falls, VA 22066-0000
State ID: 72628

Customer Copy
Site #26140 / WO #243727
Fri Aug 28th, 2009

Enhanced LD: Product Lines (Outer Wall)

Line Number: 2	**Grade:** Plus **Grade (Other):**
Line Length 130 **Testing Line Length** 130	**Dispenser Range** 1 - 8
Are boots and clamps present and are they capable of being tested? ☐ Yes ☐ No	**If No, Explain:**
Helium holds steady at 1.0 inch water column for 10 minutes? ☐ Yes ☐ No	**Helium holds steady at 5.0 inch water column for 10 minutes?** ☐ Yes ☐ No
Was any helium detected at the dispensers or STP sump using the Varian Helium Detector? ☐ Yes ☐ No	**If Yes, explain what actions were taken to fix the problem:** Readings of 600 PPM in dispenser 6/8. Boot is leaking where line terminates at 90.
Result: ☐ Unknown ☐ Pass ☐ Fail ☐ Inconclusive	

Crompco, LLC
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Plymouth Meeting, PA
19462

Exxon Service Station
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FAX: 610-278-7621

9901 Georgetown Pike
Great Falls, VA 22066-0000
State ID: 72628

Customer Copy
Site #26140 / WO #243727
Fri Aug 28th, 2009

Site Diagram Labels

1: Tank - 1 12K REG

2: Tank - 2 10K PLUS

3: Tank - 3 10K PREM

4: Block - EXXON SERVICE

5: Block - EXXON STORE

6: Dispenser - 1/3

7: Dispenser - 2/4

8: Dispenser - 5/7

9: Dispenser - 6/8

10: Road - GEORGETOWN PIKE

11: Road - WALKERRD.

DOCUMENT CERTIFICATION

Facility Name: Exxon Service Station

Registration No.: 059S0457

Facility Location: 9901 Georgetown Pike, , VA

Type of Submittal Attached: Vapor Recovery Results

Certification: I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of Responsible Official (Print):

Title:
Signature: Date: September 2nd, 2009

APPENDIX F

Dometstic Well Laboratory Data

New Jersey ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

09/18/09

Technical Report for

ExxonMobil Corporation

GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA

PO PENDING

Accutest Job Number: JA27611

Sampling Date: 09/09/09

Report to:

Groundwater & Environmental Services
2142 Priest Bridge Court Suite #1
Crofteon, MD 21114
ataylorsoncollins@gesonline.com

ATTN: Andrea Taylorson-Collins

Total number of pages in report: **16**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
VP Ops, Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

ExxonMobil Corporation

Job No: JA27611

GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA
Project No: PO PENDING

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JA27611-1	09/09/09	14:30	TD	09/10/09	DW	Drinking Water	83140026-695-KCKS-LN
JA27611-2	09/09/09	15:45	TD	09/10/09	DW	Drinking Water	131010017-706-INSBRK-AV
JA27611-3	09/09/09	00:00	TD	09/10/09	DW	Drinking Water	DUP-TD-03
JA27611-4	09/09/09	15:45	TD	09/10/09	DW	Drinking Water TB	TB-TD-01

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	83140026-695-KCKS-LN		
Lab Sample ID:	JA27611-1	**Date Sampled:**	09/09/09
Matrix:	DW - Drinking Water	**Date Received:**	09/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D36718.D	1	09/17/09	TYG	n/a	n/a	V3D1606
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
107-02-8	Acrolein	ND		50	23	ug/l	
107-13-1	Acrylonitrile	ND		50	3.6	ug/l	
71-43-2	Benzene	ND	5.0	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND		1.0	0.22	ug/l	
75-25-2	Bromoform	ND		4.0	0.23	ug/l	
74-83-9	Bromomethane	ND		2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	100	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND		1.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND		10	1.4	ug/l	
67-66-3	Chloroform	ND		1.0	0.23	ug/l	
74-87-3	Chloromethane	ND		1.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND		5.0	0.35	ug/l	
124-48-1	Dibromochloromethane	ND		1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	600	1.0	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	75	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND		5.0	0.92	ug/l	
75-34-3	1,1-Dichloroethane	ND		1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	7.0	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	70	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	1.0	0.25	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	700	1.0	0.27	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		1.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND		25	2.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND		5.0	0.55	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND		5.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	83140026-695-KCKS-LN		
Lab Sample ID:	JA27611-1	**Date Sampled:**	09/09/09
Matrix:	DW - Drinking Water	**Date Received:**	09/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.24	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1000	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	5.0	1.0	0.24	ug/l	
75-69-4	Trichlorofluoromethane	ND		5.0	0.54	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	10000	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		76-120%
17060-07-0	1,2-Dichloroethane-D4	94%		64-135%
2037-26-5	Toluene-D8	91%		76-117%
460-00-4	4-Bromofluorobenzene	90%		72-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	131010017-706-INSBRK-AV		
Lab Sample ID:	JA27611-2	**Date Sampled:**	09/09/09
Matrix:	DW - Drinking Water	**Date Received:**	09/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D36719.D	1	09/17/09	TYG	n/a	n/a	V3D1606
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
107-02-8	Acrolein	ND		50	23	ug/l	
107-13-1	Acrylonitrile	ND		50	3.6	ug/l	
71-43-2	Benzene	ND	5.0	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND		1.0	0.22	ug/l	
75-25-2	Bromoform	ND		4.0	0.23	ug/l	
74-83-9	Bromomethane	ND		2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	100	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND		1.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND		10	1.4	ug/l	
67-66-3	Chloroform	3.1		1.0	0.23	ug/l	
74-87-3	Chloromethane	ND		1.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND		5.0	0.35	ug/l	
124-48-1	Dibromochloromethane	ND		1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	600	1.0	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	75	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND		5.0	0.92	ug/l	
75-34-3	1,1-Dichloroethane	ND		1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	7.0	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	70	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	1.0	0.25	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	700	1.0	0.27	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		1.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND		25	2.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND		5.0	0.55	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND		5.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	131010017-706-INSBRK-AV		
Lab Sample ID:	JA27611-2	**Date Sampled:**	09/09/09
Matrix:	DW - Drinking Water	**Date Received:**	09/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.24	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1000	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	5.0	1.0	0.24	ug/l	
75-69-4	Trichlorofluoromethane	ND		5.0	0.54	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	10000	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-120%
17060-07-0	1,2-Dichloroethane-D4	95%		64-135%
2037-26-5	Toluene-D8	92%		76-117%
460-00-4	4-Bromofluorobenzene	91%		72-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-TD-03		
Lab Sample ID:	JA27611-3	**Date Sampled:**	09/09/09
Matrix:	DW - Drinking Water	**Date Received:**	09/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D36720.D	1	09/17/09	TYG	n/a	n/a	V3D1606
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
107-02-8	Acrolein	ND		50	23	ug/l	
107-13-1	Acrylonitrile	ND		50	3.6	ug/l	
71-43-2	Benzene	ND	5.0	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND		1.0	0.22	ug/l	
75-25-2	Bromoform	ND		4.0	0.23	ug/l	
74-83-9	Bromomethane	ND		2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	100	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND		1.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND		10	1.4	ug/l	
67-66-3	Chloroform	ND		1.0	0.23	ug/l	
74-87-3	Chloromethane	ND		1.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND		5.0	0.35	ug/l	
124-48-1	Dibromochloromethane	ND		1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	600	1.0	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	75	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND		5.0	0.92	ug/l	
75-34-3	1,1-Dichloroethane	ND		1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	7.0	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	70	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	1.0	0.25	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	700	1.0	0.27	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		1.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND		25	2.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND		5.0	0.55	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND		5.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-TD-03		
Lab Sample ID:	JA27611-3	**Date Sampled:**	09/09/09
Matrix:	DW - Drinking Water	**Date Received:**	09/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.24	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1000	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	5.0	1.0	0.24	ug/l	
75-69-4	Trichlorofluoromethane	ND		5.0	0.54	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	10000	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-120%
17060-07-0	1,2-Dichloroethane-D4	95%		64-135%
2037-26-5	Toluene-D8	92%		76-117%
460-00-4	4-Bromofluorobenzene	90%		72-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-TD-01		
Lab Sample ID:	JA27611-4	**Date Sampled:**	09/09/09
Matrix:	DW - Drinking Water TB	**Date Received:**	09/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D36717.D	1	09/17/09	TYG	n/a	n/a	V3D1606
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
107-02-8	Acrolein	ND		50	23	ug/l	
107-13-1	Acrylonitrile	ND		50	3.6	ug/l	
71-43-2	Benzene	ND	5.0	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND		1.0	0.22	ug/l	
75-25-2	Bromoform	ND		4.0	0.23	ug/l	
74-83-9	Bromomethane	ND		2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	100	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND		1.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND		10	1.4	ug/l	
67-66-3	Chloroform	ND		1.0	0.23	ug/l	
74-87-3	Chloromethane	ND		1.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND		5.0	0.35	ug/l	
124-48-1	Dibromochloromethane	ND		1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	600	1.0	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	75	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND		5.0	0.92	ug/l	
75-34-3	1,1-Dichloroethane	ND		1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	7.0	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	70	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	1.0	0.25	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	700	1.0	0.27	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		1.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND		25	2.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND		5.0	0.55	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND		5.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-TD-01		
Lab Sample ID:	JA27611-4	**Date Sampled:**	09/09/09
Matrix:	DW - Drinking Water TB	**Date Received:**	09/10/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.24	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1000	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	5.0	1.0	0.24	ug/l	
75-69-4	Trichlorofluoromethane	ND		5.0	0.54	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	10000	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		76-120%
17060-07-0	1,2-Dichloroethane-D4	92%		64-135%
2037-26-5	Toluene-D8	91%		76-117%
460-00-4	4-Bromofluorobenzene	90%		72-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

2235 Route 130 Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: JA27611

Client Information | **Facility Information**

EXXONMOBIL CORPORATION - Regional Laboratory Program (MD, DE, DC)

Consultants Company Name: GES Inc.
Address: 2142 Priest Bridge Ct, Ste 1
City: Crofton, State: MD, Zip: 21114
Project Contact: Andrea Fryklason-Collins
Sampler's Name:
Phone #: 800-220-3606 Ext. Fax #:
AFE #:

Project Name: XOM Great Falls
Street: 9901 Georgetown Pike
City: Great Falls, State: VA
ExxonMobil Contact: Mike Geci
ExxonMobil Contact's Phone #:
Location ID#: 2-6140 WBS#:
PO#: PO pending Line#:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Preservation: HCL	NaOH	HNO3	H2SO4	None	Na2S2O3	MEOH	Encore	8260 BTEX ☐ MTBE ☐ Naphthalene ☐	524 BTEX ☐ 524 BTEX ☐ MTBE ☐	TPH-GRO 8015B	TPH-DRO 8015B	Lead ☐ 6010 ☐ 200.9 ☐ Total ☐ Dissolved ☐	Air - VTO3BTEX TPHF ☐	TO14: BTEX ☐ FULL ☐	ExxonMobil Grass Roots ☐	Soil Disposal Criteria ☐ Oil ☐	Full VOCs, OXYS, TIC 16 8260
-1	83140026-695-BCKS-LW	9/9/09	1430	TD	DW	3	X																	
-2	131010017-706-Inabrk-AV	9/9/09	1545	TD	DW	3	X																	X
-3	Dup-TD-03	9/9/09		TD	DW	3	X																	X
-4	TB-TD-01	9/9/09		TD	DW	~~3~~ 1	X																	X

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☐ 6 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☐ 1 Day EMERGENCY

Approved By:/Date

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- ☒ Commercial "A"
- ☐ Commercial "B"
- ☐ Full Deliverables
- ☐ Other
- ☐ FULL CLP
- ☐ State Forms
- ☐ Disk Deliverable Format _____

Commercial "A" = Results only

Comments / Remarks

TRK# 8673 7935 8340
*TB Rec 11.27.09 @ 0630 9.10.09 mf
2134

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
	9/9/09 1800	1 fed x	2 fed x	9.10.09 @ 1030	2 PNr
Relinquished by:	Date Time:	Received by: 3	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by:	Date Time:	Received by: 5	Seal #	Preserved where applicable ☐	On Ice ☒ Temp. 4.5°

JA27611: Chain of Custody
Page 1 of 3

Job Change Order: JA27611_9/15/2009

equested Date:	9/15/2009	**Received Date:**	9/10/2009
ccount Name:	ExxonMobil Corporation	**Due Date:**	9/24/2009
roject Description:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great	**Deliverable:**	COMMA
SR:	TE	**TAT (Days):**	7

Sample #:
JA27611-all

Change: Change the TAT to 7 days, make the due date 9/17

JA27611: Chain of Custody
Page 2 of 3

bove Changes Andrea Taylorson-Collins **Date:** 9/15/2009

› Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA27611 **Client:** **Immediate Client Services Action Required:** No

Date / Time Received: 9/10/2009 **Delivery Method:** **Client Service Action Required at Login:** No

Project: **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	Infared gun	
3. Cooler media:	Ice (bag)	

Quality Control Preservatio	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	
2. Trip Blank listed on COC:	☑	☐	
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☐	☐	☑

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JA27611: Chain of Custody
Page 3 of 3

New Jersey ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

09/15/09

Technical Report for

ExxonMobil Corporation

GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA

po pending

Accutest Job Number: JA27648

Sampling Date: 09/10/09

Report to:

Groundwater & Environmental Services
2142 Priest Bridge Court Suite #1
Crofteon, MD 21114
ataylorsoncollins@gesonline.com

ATTN: Andrea Taylorson-Collins

Total number of pages in report: **13**

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ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
VP Ops, Laboratory Director

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Sample Summary

ExxonMobil Corporation

Job No: JA27648

GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA
Project No: po pending

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JA27648-1	09/10/09	16:10 TD	09/11/09	DW	Drinking Water	83140012-614-DRFLDPND-G
JA27648-2	09/10/09	00:00 TD	09/11/09	DW	Drinking Water	DUP-TD-04
JA27648-3	09/10/09	16:10 TD	09/11/09	DW	Drinking Water TB	TB-TD-04

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	83140012-614-DRFLDPND-G		
Lab Sample ID:	JA27648-1	**Date Sampled:**	09/10/09
Matrix:	DW - Drinking Water	**Date Received:**	09/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D36545.D	1	09/12/09	TYG	n/a	n/a	V3D1599
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
107-02-8	Acrolein	ND		50	23	ug/l	
107-13-1	Acrylonitrile	ND		50	3.6	ug/l	
71-43-2	Benzene	ND	5.0	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND		1.0	0.22	ug/l	
75-25-2	Bromoform	ND		4.0	0.23	ug/l	
74-83-9	Bromomethane	ND		2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	100	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND		1.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND		10	1.4	ug/l	
67-66-3	Chloroform	ND		1.0	0.23	ug/l	
74-87-3	Chloromethane	ND		1.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND		5.0	0.35	ug/l	
124-48-1	Dibromochloromethane	ND		1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	600	1.0	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	75	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND		5.0	0.92	ug/l	
75-34-3	1,1-Dichloroethane	ND		1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	7.0	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	70	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	1.0	0.25	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	700	1.0	0.27	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		1.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND		25	2.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND		5.0	0.55	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND		5.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 141) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	83140012-614-DRFLDPND-G		
Lab Sample ID:	JA27648-1	**Date Sampled:**	09/10/09
Matrix:	DW - Drinking Water	**Date Received:**	09/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.24	ug/l	
127-18-4	Tetrachloroethene	2.4	5.0	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1000	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	5.0	1.0	0.24	ug/l	
75-69-4	Trichlorofluoromethane	ND		5.0	0.54	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	10000	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-120%
17060-07-0	1,2-Dichloroethane-D4	97%		64-135%
2037-26-5	Toluene-D8	92%		76-117%
460-00-4	4-Bromofluorobenzene	92%		72-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-TD-04		
Lab Sample ID:	JA27648-2	**Date Sampled:**	09/10/09
Matrix:	DW - Drinking Water	**Date Received:**	09/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D36546.D	1	09/12/09	TYG	n/a	n/a	V3D1599
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
107-02-8	Acrolein	ND		50	23	ug/l	
107-13-1	Acrylonitrile	ND		50	3.6	ug/l	
71-43-2	Benzene	ND	5.0	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND		1.0	0.22	ug/l	
75-25-2	Bromoform	ND		4.0	0.23	ug/l	
74-83-9	Bromomethane	ND		2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	100	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND		1.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND		10	1.4	ug/l	
67-66-3	Chloroform	ND		1.0	0.23	ug/l	
74-87-3	Chloromethane	ND		1.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND		5.0	0.35	ug/l	
124-48-1	Dibromochloromethane	ND		1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	600	1.0	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	75	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND		5.0	0.92	ug/l	
75-34-3	1,1-Dichloroethane	ND		1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	7.0	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	70	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	1.0	0.25	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	700	1.0	0.27	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		1.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND		25	2.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND		5.0	0.55	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND		5.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 141) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-TD-04		
Lab Sample ID:	JA27648-2	**Date Sampled:**	09/10/09
Matrix:	DW - Drinking Water	**Date Received:**	09/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.24	ug/l	
127-18-4	Tetrachloroethene	2.3	5.0	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1000	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	5.0	1.0	0.24	ug/l	
75-69-4	Trichlorofluoromethane	ND		5.0	0.54	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	10000	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-120%
17060-07-0	1,2-Dichloroethane-D4	98%		64-135%
2037-26-5	Toluene-D8	92%		76-117%
460-00-4	4-Bromofluorobenzene	92%		72-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-TD-04		
Lab Sample ID:	JA27648-3	**Date Sampled:**	09/10/09
Matrix:	DW - Drinking Water TB	**Date Received:**	09/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D36544.D	1	09/12/09	TYG	n/a	n/a	V3D1599
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
107-02-8	Acrolein	ND		50	23	ug/l	
107-13-1	Acrylonitrile	ND		50	3.6	ug/l	
71-43-2	Benzene	ND	5.0	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND		1.0	0.22	ug/l	
75-25-2	Bromoform	ND		4.0	0.23	ug/l	
74-83-9	Bromomethane	ND		2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	100	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND		1.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND		10	1.4	ug/l	
67-66-3	Chloroform	ND		1.0	0.23	ug/l	
74-87-3	Chloromethane	ND		1.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	ND		5.0	0.35	ug/l	
124-48-1	Dibromochloromethane	ND		1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	600	1.0	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	75	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND		5.0	0.92	ug/l	
75-34-3	1,1-Dichloroethane	ND		1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	7.0	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	70	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	1.0	0.25	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	700	1.0	0.27	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		1.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND		25	2.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND		5.0	0.55	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND		5.0	0.21	ug/l	

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E = Indicates value exceeds calibration range
J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-TD-04		
Lab Sample ID:	JA27648-3	**Date Sampled:**	09/10/09
Matrix:	DW - Drinking Water TB	**Date Received:**	09/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.24	ug/l	
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108-88-3	Toluene	ND	1000	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	5.0	1.0	0.24	ug/l	
75-69-4	Trichlorofluoromethane	ND		5.0	0.54	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	10000	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		76-120%
17060-07-0	1,2-Dichloroethane-D4	96%		64-135%
2037-26-5	Toluene-D8	92%		76-117%
460-00-4	4-Bromofluorobenzene	92%		72-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

CHAIN OF CUSTODY

2235 Route 130 Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: JA27648

EXXONMOBIL CORPORATION - Regional Laboratory Program (MD, DE, DC)

Client Information	Facility Information
Consultants Company Name: GES Inc.	Project Name: XOM Great Falls
Address: 2142 Priest Bridge Ct, Ste 1	Street: 9901 Georgetown Pike
City: Crofton, State: MD, Zip: 21114	City: Great Falls, State: VA
Project Contact: Andrea Taylorson-Collins	ExxonMobil Contact: Mike Lee
Sampler's Name:	ExxonMobil Contact's Phone #:
Phone #: 800-220-3606, Ext. Fax #:	Location ID#: 2-6140, WBS#
AFE #:	PO#: PO pending, Line#

Analytical Information: Naphthalene ☐; MTBE ☐; 8260 BTEX ☐; MTBE ☐; 524 BTEX ☐; 624 BTEX ☐; TPH-GRO 8015B; TPH-DRO 8015B; Lead 6010 ☐ 200.9 ☐ Total ☐ Dissolved ☐; Air - VTO38TEX TPHF ☐; TO14: BTEX ☐ FULL ☐; ExxonMobil Grass Roots ☐; Oil ☐; Soil Disposal Criteria ☐; Full VOCs, Oxy[5], TIC[10] 8260

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	HCL	NaOH	HNO3	H2SO4	None	NaHSO4	MEOH	Encore	Full VOCs, Oxy[5], TIC[10] 8260
-1	8314002-614-DRFLDPND-01	9-10-09	1610	TD	DW	3	X								X
-2	DUP-TD-04	9-10-09		TD	DW	2	X								X
-3	TB-TD-04	9-10-09			W	1	X								X

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☐ 8 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☒ 1 Day EMERGENCY

Approved By:/Date

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- ☒ Commercial "A"
- ☐ Commercial "B"
- ☐ Full Deliverables
- ☐ Other
- ☐ FULL CLP
- ☐ State Forms
- ☐ Disk Deliverable Format

Commercial "A" = Results only

Comments / Remarks

2137

TB FILL DATE 11-17-09 0630

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
1	1930 9/10/09	1	2	9-11-09 1000	2
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Seal #	Preserved where applicable ☐	On Ice ☑ Temp. 3.8°C

JA27648: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA27648 Client: Immediate Client Services Action Required: No

Date / Time Received: 9/11/2009 Delivery Method: Client Service Action Required at Login: No

Project: No. Coolers: 1 Airbill #'s:

Cooler Security

	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature

	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	Infared gun	
3. Cooler media:	Ice (bag)	

Quality Control Preservatio

	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	
2. Trip Blank listed on COC:	☑	☐	
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☐	☐	☑

Sample Integrity - Documentation

	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition

	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions

	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JA27648: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

10/15/09

Technical Report for

ExxonMobil Corporation

GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA

Accutest Job Number: JA30340

Sampling Date: 10/13/09

Report to:

Groundwater & Environmental Services
2142 Priest Bridge Court Suite #1
Crofteon, MD 21114
ataylorsoncollins@gesonline.com

ATTN: Andrea Taylorson-Collins

Total number of pages in report: **16**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
VP Ops, Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Sample Summary

ExxonMobil Corporation

Job No: JA30340

GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JA30340-1	10/13/09	00:00	BL	10/14/09	DW	Drinking Water	DUP-BL-01
JA30340-2	10/13/09	08:50	BL	10/14/09	DW	Drinking Water	131 030051-809-CNSTLN-DR
JA30340-3	10/13/09	08:50	BL	10/14/09	DW	Drinking Water TB	TB-BL-01
JA30340-4	10/13/09	08:00	BL	10/14/09	DW	Drinking Water FB	FB-BL-01

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-BL-01		
Lab Sample ID:	JA30340-1	**Date Sampled:**	10/13/09
Matrix:	DW - Drinking Water	**Date Received:**	10/14/09
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B38633.D	1	10/15/09	MMC	n/a	n/a	V1B1670
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.4	ug/l	
78-93-3	2-Butanone	ND		5.0	1.5	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.12	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.099	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.11	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.076	ug/l	
75-25-2	Bromoform	ND		0.50	0.078	ug/l	
74-83-9	Bromomethane	ND		0.50	0.16	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.14	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.11	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.052	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.099	ug/l	
75-00-3	Chloroethane	ND		0.50	0.21	ug/l	
67-66-3	Chloroform	0.16		0.50	0.058	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.19	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.12	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.098	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.067	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.11	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.088	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.099	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.10	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.12	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.20	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.056	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.29	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.092	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-BL-01		
Lab Sample ID:	JA30340-1	**Date Sampled:**	10/13/09
Matrix:	DW - Drinking Water	**Date Received:**	10/14/09
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.090	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.082	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.091	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.051	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.086	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
108-20-3	Di-Isopropyl ether	ND		0.50	0.092	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.13	ug/l	
637-92-3	Ethyl tert Butyl Ether	ND		0.50	0.087	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.15	ug/l	
110-54-3	Hexane	ND		0.50	0.21	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.62	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.12	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.11	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.20		0.50	0.080	ug/l	J
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.66	ug/l	
91-20-3	Naphthalene	ND		0.50	0.14	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.14	ug/l	
100-42-5	Styrene	ND	100	0.50	0.085	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND		0.50	0.072	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.067	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.092	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.067	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.052	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.067	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.15	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.045	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.11	ug/l	
75-65-0	Tertiary Butyl Alcohol	ND		5.0	1.2	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.099	ug/l	
	m,p-Xylene	ND		1.0	0.12	ug/l	
95-47-6	o-Xylene	ND		0.50	0.12	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.12	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-BL-01		
Lab Sample ID:	JA30340-1	**Date Sampled:**	10/13/09
Matrix:	DW - Drinking Water	**Date Received:**	10/14/09
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	101%		78-114%
460-00-4	4-Bromofluorobenzene	93%		77-115%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	131 030051-809-CNSTLN-DR		
Lab Sample ID:	JA30340-2	**Date Sampled:**	10/13/09
Matrix:	DW - Drinking Water	**Date Received:**	10/14/09
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B38634.D	1	10/15/09	MMC	n/a	n/a	V1B1670
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.4	ug/l	
78-93-3	2-Butanone	ND		5.0	1.5	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.12	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.099	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.11	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.076	ug/l	
75-25-2	Bromoform	ND		0.50	0.078	ug/l	
74-83-9	Bromomethane	ND		0.50	0.16	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.14	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.11	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.052	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.099	ug/l	
75-00-3	Chloroethane	ND		0.50	0.21	ug/l	
67-66-3	Chloroform	0.16		0.50	0.058	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.19	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.12	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.098	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.067	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.11	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.088	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.099	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.10	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.12	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.20	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.056	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.29	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.092	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	131 030051-809-CNSTLN-DR		
Lab Sample ID:	JA30340-2	**Date Sampled:**	10/13/09
Matrix:	DW - Drinking Water	**Date Received:**	10/14/09
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.090	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.082	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.091	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.051	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.086	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
108-20-3	Di-Isopropyl ether	ND		0.50	0.092	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.13	ug/l	
637-92-3	Ethyl tert Butyl Ether	ND		0.50	0.087	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.15	ug/l	
110-54-3	Hexane	ND		0.50	0.21	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.62	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.12	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.11	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.19		0.50	0.080	ug/l	J
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.66	ug/l	
91-20-3	Naphthalene	ND		0.50	0.14	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.14	ug/l	
100-42-5	Styrene	ND	100	0.50	0.085	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND		0.50	0.072	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.067	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.092	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.067	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.052	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.067	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.15	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.045	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.11	ug/l	
75-65-0	Tertiary Butyl Alcohol	ND		5.0	1.2	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.099	ug/l	
	m,p-Xylene	ND		1.0	0.12	ug/l	
95-47-6	o-Xylene	ND		0.50	0.12	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.12	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	131 030051-809-CNSTLN-DR		
Lab Sample ID:	JA30340-2	**Date Sampled:**	10/13/09
Matrix:	DW - Drinking Water	**Date Received:**	10/14/09
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	104%		78-114%
460-00-4	4-Bromofluorobenzene	95%		77-115%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-BL-01		
Lab Sample ID:	JA30340-3	**Date Sampled:**	10/13/09
Matrix:	DW - Drinking Water TB	**Date Received:**	10/14/09
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B38635.D	1	10/15/09	MMC	n/a	n/a	V1B1670
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.4	ug/l	
78-93-3	2-Butanone	ND		5.0	1.5	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.12	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.099	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.11	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.076	ug/l	
75-25-2	Bromoform	ND		0.50	0.078	ug/l	
74-83-9	Bromomethane	ND		0.50	0.16	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.14	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.11	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.052	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.099	ug/l	
75-00-3	Chloroethane	ND		0.50	0.21	ug/l	
67-66-3	Chloroform	ND		0.50	0.058	ug/l	
74-87-3	Chloromethane	ND		0.50	0.19	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.12	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.098	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.067	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.11	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.088	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.099	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.10	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.12	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.20	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.056	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.29	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.092	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-BL-01		
Lab Sample ID:	JA30340-3	**Date Sampled:**	10/13/09
Matrix:	DW - Drinking Water TB	**Date Received:**	10/14/09
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.090	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.082	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.091	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.051	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.086	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
108-20-3	Di-Isopropyl ether	ND		0.50	0.092	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.13	ug/l	
637-92-3	Ethyl tert Butyl Ether	ND		0.50	0.087	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.15	ug/l	
110-54-3	Hexane	ND		0.50	0.21	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.62	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.12	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.11	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.080	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.66	ug/l	
91-20-3	Naphthalene	ND		0.50	0.14	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.14	ug/l	
100-42-5	Styrene	ND	100	0.50	0.085	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND		0.50	0.072	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.067	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.092	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.067	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.052	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.067	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.15	ug/l	
108-88-3	Toluene	0.082	1000	0.50	0.045	ug/l	J
79-01-6	Trichloroethylene	ND	5.0	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.11	ug/l	
75-65-0	Tertiary Butyl Alcohol	ND		5.0	1.2	ug/l	
75-01-4	Vinyl chloride	0.19	2.0	0.50	0.099	ug/l	J
	m,p-Xylene	0.15		1.0	0.12	ug/l	J
95-47-6	o-Xylene	ND		0.50	0.12	ug/l	
1330-20-7	Xylenes (total)	0.15	10000	0.50	0.12	ug/l	J

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-BL-01		
Lab Sample ID:	JA30340-3	**Date Sampled:**	10/13/09
Matrix:	DW - Drinking Water TB	**Date Received:**	10/14/09
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	103%		78-114%
460-00-4	4-Bromofluorobenzene	94%		77-115%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	FB-BL-01		
Lab Sample ID:	JA30340-4	**Date Sampled:**	10/13/09
Matrix:	DW - Drinking Water FB	**Date Received:**	10/14/09
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1B38636.D	1	10/15/09	MMC	n/a	n/a	V1B1670
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.4	ug/l	
78-93-3	2-Butanone	ND		5.0	1.5	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.12	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.099	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.11	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.076	ug/l	
75-25-2	Bromoform	ND		0.50	0.078	ug/l	
74-83-9	Bromomethane	ND		0.50	0.16	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.14	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.11	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.052	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.099	ug/l	
75-00-3	Chloroethane	ND		0.50	0.21	ug/l	
67-66-3	Chloroform	ND		0.50	0.058	ug/l	
74-87-3	Chloromethane	ND		0.50	0.19	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.12	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.098	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.067	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.11	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.088	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.099	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.10	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.12	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.20	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.056	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.29	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.092	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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Accutest Laboratories

Report of Analysis

Client Sample ID:	FB-BL-01		
Lab Sample ID:	JA30340-4	**Date Sampled:**	10/13/09
Matrix:	DW - Drinking Water FB	**Date Received:**	10/14/09
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
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156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.051	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.086	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
108-20-3	Di-Isopropyl ether	ND		0.50	0.092	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.13	ug/l	
637-92-3	Ethyl tert Butyl Ether	ND		0.50	0.087	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.15	ug/l	
110-54-3	Hexane	ND		0.50	0.21	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.62	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.12	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.11	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.080	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.66	ug/l	
91-20-3	Naphthalene	ND		0.50	0.14	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.14	ug/l	
100-42-5	Styrene	ND	100	0.50	0.085	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND		0.50	0.072	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.067	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.092	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.067	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.052	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.067	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.15	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.045	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.11	ug/l	
75-65-0	Tertiary Butyl Alcohol	ND		5.0	1.2	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.099	ug/l	
	m,p-Xylene	ND		1.0	0.12	ug/l	
95-47-6	o-Xylene	ND		0.50	0.12	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.12	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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Accutest Laboratories

Report of Analysis

Client Sample ID:	FB-BL-01		
Lab Sample ID:	JA30340-4	**Date Sampled:**	10/13/09
Matrix:	DW - Drinking Water FB	**Date Received:**	10/14/09
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	102%		78-114%
460-00-4	4-Bromofluorobenzene	94%		77-115%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Sample pH did not satisfy field preservation criteria.

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

APPENDIX G

Fairfax Water Account Confirmation

Number	Street Name	Owner	Served by Fairfax Water Yes/No
749	Walker Road	Saul Holdings Limited Partnership	No
753	Walker Road	Saul Holdings Limited Partnership	No
9829	Georgetown Pike	Saul Holdings Limited Partnership	Yes
9825	Georgetown Pike	Saul Holdings Limited Partnership	No
25A	Georgetown Pike	Saul Holdings Limited Partnership	No
9821	Georgetown Pike	Smitz Carl L	No
9818	Georgetown Pike	Park Authority	No
9822	Georgetown Pike	Board of Supervisors Fairfax County	No
9824	Georgetown Pike	Board of Supervisors Fairfax County	No
9826	Georgetown Pike	Board of Supervisors Fairfax County	No
9830	Georgetown Pike	Board of Supervisors Fairfax County	Yes
737	Walker Road	Professional Center	No
725	Walker Road	Appleton Eugene R	No
614	Deerfield Pond	Chappelear John M	No
613	Deerfield Pond	Kan Victor	No
611	Deerfield Pond	Rachlin Alan	No
696	Bucks Lane	George Gregory	No
695	Bucks Lane	Lessard Christian	No
634	Innsbruck Avenue	Innsbruck Assoicaites LLC	No
612	Deerfiled Pond	Pence Geoffrey	No
715	Walker Road	Maylissa Heshmat	Yes
9900	Georgetown Pike	Chung John	No
721	Walker Road	Wrn Association	No
719	Walker Road	Walker Rd Associates LLD	No
725	Walker Road	Appleton Eugene R	No
9915	Georgetown Pike	First VA Bank	Yes
700	Innsbruck Avenue	Head John	No
706	Innsbruck Avenue	Halm Kevin	No
9800	Georgetown Pike	Moriarty Stephen HTR	No
637	Innsbruck Avenue	Colt Armida	No
9812	Georgetown Pike	Park Authority Fairfax County	No
9916	Georgetown Pike	Board of Supervisors Fairfax County	No
778	Walker Road	Domas LLC	No
750	Walker Road	Signet Bank VA	Yes
748	Walker Road	Snyder John F	Yes
790	Walker Road	Simmons Clarissa	Yes
801	Constellation Drive	Chang Thomas	Yes
805	Constellation Drive	Azali Jahanmir	No
809	Constellation Drive	Oroumchi Nadjieh	No
813	Constellation Drive	withheld	No
817	Constellation Drive	Dang Han Hoan	No
812	Constellation Drive	Hoge Thomas	No

808	Constellation Drive	withheld	No
804	Constellation Drive	Terpak Michael	No
10003	Columbine Street	Ocain Bruce	Yes
10005	Columbine Street	Calic Alexander	No
10009	Columbine Street	Murphy Marty	Yes
10011	Columbine Street	Burkart Jack	Yes
804	Golden Arrow Street	Waldroup Louise	No
808	Golden Arrow Street	Knudsen Eric	No
805	Golden Arrow Street	Pan Realty LLC	No
809	Golden Arrow Street	Schoonmaker Robert	No
? # 7 Parcel	Columbine Street	Moore Robert	No
10004	Columbine Street	Klingensmith Lawrence	Yes
10008	Columbine Street	Li Titshing	Yes
10010	Columbine Street	Touval Jerome	Yes
10012	Columbine Street	Khoo Swee	Yes
778	Lundenburg Road	Mehryar Gholam Reza	No
790	Stephanie Circle	Abravanel Neal	Yes
792	Stephanie Circle	Majimohammad Mohammad	Yes
794	Stephanie Circle	Brennan John	Yes
796	Stephanie Circle	Jones W Marlin	Yes
795	Stephanie Circle	Teeter Marjorie	Yes
793	Stephanie Circle	Baum Sharon	Yes
791	Stephanie Circle	Chernowetz William	Yes
789	Stephanie Circle	Sands Robert-John H	Yes
10101	Stephanie Circle	Fischer Sandra	Yes
788	Stephanie Circle	Dharia Tarun	Yes
10100	Nedra Drive	Jones Darren	Yes
778	Stephanie Circle	Boyce Albert	Yes
783	Stephanie Circle	Lu Amos	Yes
785	Stephanie Circle	Kane Richard	Yes
787	Stephanie Circle	Grimes Gary	Yes
10001	Georgetown Pike	US Postal Service	Yes
?	No address	Outlot 3A2	No
756	Walker Road	Great Falls Village	Yes
758	Walker Road	Great Falls Village	Yes
760	Walker Road	Green Castle Properties	Yes
762	Walker Road	Moore Robert	Yes
766	Walker Road	Rice Martha	Yes
768	Walker Road	Teel Parker	Yes
772	Walker Road	Village Center Group	Yes
776	Walker Road	TPM Enterprises INC	Yes
774	Walker Road	Troon LLC	Yes
752	Walker Road	Gallitin LLC	Yes
754	Walker Road	Great Falls Village Green	Yes

APPENDIX H

Culligan Well Testing Data

Culligan

Site Report

501 Maryland Ave.
Hagerstown, MD 21740
301-797-0311
800-451-7512

5201 Williamson Road
Roanoke, VA 24012
540-366-9078
800-438-5595

Commonwealth of Virginia
Department of Environmental Quality
P.O. Box 10009
Richmond, Virginia 23240
Attention: Harmon Fisher
Case Manager: Kurt Kochan

SUBJECT: Site visit report for contract PO# 12407
8897-Knudsen Residence
PC# 10-3028

DATE OF VISIT: 08/31/09 TYPE OF SERVICE: Site Assessment

EQUIPMENT: Acid Filter

SUMMARY OF SERVICE PERFORMED: Collected one Raw 8260 (48hour) and one Raw 8270 (48hour) samples for analysis.

METER READING: **Previous: n/a** **Today:**

ON-SITE WATER TEST RESULTS:

Raw:	pH	Hardness	Iron
Treated:	7.0 pH	5 Hardness	- Iron

List of attachments: Site report /Billing Invoice/Lab Results

Culligan
Trust the Water Experts

501 Maryland Avenue
Hagerstown, MD 21740

Telephone 301-797-0311
Facsimile 301-797-2877

Stoner Enterprises, Inc.

8897-

Kurt Kochan

Account:	PO # 12407 State of Virginia	Purpose of Visit: **collect 1 Raw 8260 & 1 Raw 8270**
Name:	**Eric Knudsen**	**all 48hour, also send Trip & field blanks**
Address:	**808 Golden Arrow St**	
	Great Falls, VA 22066	Call Received From:**Harmon-email**
		Date Call Received:**08/2809**
Phone:	**703-759-5441**	Meter Reading:
PC#	**10-3028**	Previous Meter Reading:**n/a**

Person to contact for any problems:
Harmon Fisher
Dept. Environmental Quality
Water Division-OSRR
629 E. Main Street
Richmond, VA 23219
804-698-4292

Stoner Enterprises, Inc. T/A /
Culligan
501 Maryland Ave.
Hagerstown, MD 21740
Attn: Joyce Feigley
301-797-0311

On-Site Water Test	Raw	Treated	Expiration Date
PH		70	2-11
Iron		/	9-12
Hardness		5	3-11
Sulfur		ND	

IN CASE OF EMERGENCY CALL 301-797-0311

Round Trip mileage**130** from **Hagerstown** office
Date of Work Performed 8-31-09

Previous Site Visited Shop
Hours Worked 45 min.

Description of Work Performed	List of Existing Equipment	
Took Field & Trip Blanks	(Acid Filter)	
Also Raw 8260 + 8270		
Samples		
65 mile Tests 45 min.		

List of Materials and/or Parts Installed or Replaced:
Full Basement 3/4 copper Block wall

Customer Signature: [signature] Service Technician Signature: Tim Koontz

Print Name: Print Name: Tim Koontz

*Exhausted Carbon to be Handled in Accordance with Stoner Enterprises, Inc. Spent Carbon Policy.

Site Assessment of Upgrade Recommendation

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD 8260

CLIENT SAMPLE ID:	KNUDSEN-RA 10-3028	VBLK0901F1
LAB SAMPLE ID:	09083107	METHOD BLANK
SAMPLE DATE:	08/31/09	
RECEIVED DATE:	08/31/09	
ANALYSIS DATE:	09/01/09	09/01/09
FILE NAME:	083107	0901VBLKF1
INSTRUMENT ID:	MSF	MSF
MATRIX:	WATER	WATER
UNITS:	ug/L	ug/L
DILUTION FACTOR:	1.0	1.0

VOLATILE COMPOUNDS		
Acetone	10 U	10 U
t-Amyl Alcohol (TAA)	20 U	20 U
t-Amyl Methyl Ether (TAME)	2.0 U	2.0 U
Benzene	2.0 U	2.0 U
Bromodichloromethane	2.0 U	2.0 U
Bromoform	2.0 U	2.0 U
Bromomethane	2.0 U	2.0 U
tert-Butanol (TBA)	15 U	15 U
2-Butanone (MEK)	10 U	10 U
Carbon Disulfide	2.0 U	2.0 U
Carbon Tetrachloride	2.0 U	2.0 U
Chlorobenzene	2.0 U	2.0 U
Chloroethane	2.0 U	2.0 U
Chloroform	2.0 U	2.0 U
Chloromethane	2.0 U	2.0 U
1,2-Dibromo-3-chloropropane	2.0 U	2.0 U
Dibromochloromethane	2.0 U	2.0 U
1,2-Dibromoethane (EDB)	2.0 U	2.0 U
1,1-Dichloroethane	2.0 U	2.0 U
1,2-Dichloroethane	2.0 U	2.0 U
1,1-Dichloroethene	2.0 U	2.0 U
cis-1,2-Dichloroethene	2.0 U	2.0 U
trans-1,2-Dichloroethene	2.0 U	2.0 U
1,2-Dichloropropane	2.0 U	2.0 U
cis-1,3-Dichloropropene	2.0 U	2.0 U
trans-1,3-Dichloropropene	2.0 U	2.0 U
Diisopropyl Ether (DIPE)	2.0 U	2.0 U
Ethyl-t-Butyl Ether (ETBE)	2.0 U	2.0 U
Ethylbenzene	2.0 U	2.0 U
2-Hexanone	10 U	10 U
4-Methyl-2-Pentanone	10 U	10 U
Methyl-t-Butyl Ether (MTBE)	2.0 U	2.0 U
Methylene Chloride	2.0 U	2.0 U
Styrene	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U
Tetrachloroethene	2.0 U	2.0 U

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD 8260

CLIENT SAMPLE ID:	KNUDSEN-RA 10-3028	VBLK0901F1
LAB SAMPLE ID:	09083107	METHOD BLANK
SAMPLE DATE:	08/31/09	
RECEIVED DATE:	08/31/09	
ANALYSIS DATE:	09/01/09	09/01/09
FILE NAME:	083107	0901VBLKF1
INSTRUMENT ID:	MSF	MSF
MATRIX:	WATER	WATER
UNITS:	ug/L	ug/L
DILUTION FACTOR:	1.0	1.0

VOLATILE COMPOUNDS		
Toluene	2.0 U	2.0 U
1,1,1-Trichloroethane	2.0 U	2.0 U
1,1,2-Trichloroethane	2.0 U	2.0 U
Trichloroethene	2.0 U	2.0 U
Vinyl Chloride	2.0 U	2.0 U
o-Xylene	2.0 U	2.0 U
m+p-Xylenes	2.0 U	2.0 U

B - Detected in lab blank U - Below reported quantitation level J - Estimated value
ug/L = Microgram per liter (parts per billion)

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

SEMIVOLATILE ORGANICS BY EPA GC/MS METHOD 8270

CLIENT SAMPLE ID:	KNUDSEN-RA 10-3028	SWBLK090109
LAB SAMPLE ID:	09083107	METHOD BLANK
SAMPLE DATE:	08/31/09	
RECEIVED DATE:	08/31/09	
EXTRACTION DATE:	09/01/09	09/01/09
ANALYSIS DATE:	09/01/09	09/01/09
FILE NAME:	S083107	SWBLK01
INSTRUMENT ID:	MSE	MSE
MATRIX:	WATER	WATER
UNITS:	ug/L	ug/L
RELATIVE DILUTION FACTOR:	1.0	1.0
SEMIVOLATILE COMPOUNDS		
Acenaphthene	2.0 U	2.0 U
Acenaphthylene	2.0 U	2.0 U
Anthracene	2.0 U	2.0 U
Benzo(a)Anthracene	2.0 U	2.0 U
Benzo(a)Pyrene	2.0 U	2.0 U
Benzo(b)fluoranthene	2.0 U	2.0 U
Benzo(g,h,i)Perylene	2.0 U	2.0 U
Benzo(k)fluoranthene	2.0 U	2.0 U
Chrysene	2.0 U	2.0 U
Dibenz(a,h)Anthracene	2.0 U	2.0 U
Fluoranthene	2.0 U	2.0 U
Fluorene	2.0 U	2.0 U
Indeno(1,2,3-cd)Pyrene	2.0 U	2.0 U
2-Methylnaphthalene	2.0 U	2.0 U
Naphthalene	2.0 U	2.0 U
Phenanthrene	2.0 U	2.0 U
Pyrene	2.0 U	2.0 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.
ug/L - micrograms per Liter.

Culligan
Site Report

501 Maryland Ave.
Hagerstown, MD 21740
301-797-0311
800-451-7512

5201 Williamson Road
Roanoke, VA 24012
540-366-9078
800-438-5595

Commonwealth of Virginia
Department of Environmental Quality
P.O. Box 10009
Richmond, Virginia 23240
Attention: Harmon Fisher
Case Manager: Kurt Kochan

SUBJECT: Site visit report for contract PO# 12407
9037-Chappelear Residence
PC# 10-3028

DATE OF VISIT: 9/21/2009 TYPE OF SERVICE: Site Assessment

EQUIPMENT: Water Softener-c/o 1 Acid Neutralizer-c/o

SUMMARY OF SERVICE PERFORMED: Collected one Raw 8260 (48hour) and one Raw 8270 (48hour) samples for analysis.

METER READING: **Previous: n/a** **Today:**

ON-SITE WATER TEST RESULTS: **Raw:** 6.0 pH 5 Hardness 0 Iron
Treated: pH Hardness Iron

List of attachments: Site report /Billing Invoice/Lab Results

#12:15

Culligan
Trust the Water Experts.

501 Maryland Avenue
Hagerstown, MD 21740

Telephone 301-797-0311
Facsimile 301-797-2877

Stoner Enterprises, Inc.

Kurt Kochan

Account:	PO # 12407 State of Virginia	Purpose of Visit: **SA-collect 1 Raw 8260 & 1 Raw**
Name:	**9037-Chappelear Res**	**8270 (48hour)**
Address:	**614 Deerfield Pond Court**	
	Great Falls, VA 22066	Call Received From:**Harmon-email**
	John & Maggie	Date Call Received:**09/17/09**
Phone:	**703-757-1382**	Meter Reading:
PC#	**10-3028**	Previous Meter Reading:**n/a**

Person to contact for any problems:
Harmon Fisher
Dept. Environmental Quality
Water Division-OSRR
629 E. Main Street
Richmond, VA 23219
804-698-4292

Stoner Enterprises, Inc. T/A / Culligan
501 Maryland Ave.
Hagerstown, MD 21740
Attn: Joyce Feigley
301-797-0311
1-800-451-7512

On-Site Water Test	Raw	Treated	Expiration Date
PH	6.0		2-11
Iron	Ø		7-12
Hardness	5		3-11
Sulfur	Ø		

IN CASE OF EMERGENCY CALL 301-797-0311

Round Trip mileage**130** from **Hagerstown** office
Date of Work Performed 9-21-09

Previous Site Visited Morin Res.
Hours Worked 30min

Description of Work Performed	List of Existing Equipment	
Collected Raw and Field Blank Samples	Water Softner	Neutralizer
	Customer Owned	
1" CPVC After Softner 1" PVC Before From Pressure Tank		
7FT to Electric		
68miles; Samples; 30min 65miles Back		

List of Materials and/or Parts Installed or Replaced:

Customer Signature: M. Chappelear
Service Technician Signature: SAH

Print Name:
Print Name: Scott Herbert

*Exhausted Carbon to be Handled in Accordance with Stoner Enterprises, Inc. Spent Carbon Policy.

Site Assessment of Upgrade Recommendation

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD 8260

CLIENT SAMPLE ID:	CHAPPELEAR-RA	CHAPPELEAR-FB	VBLK0921D1
	10-3028	10-3028	
LAB SAMPLE ID:	09092103	09092104	METHOD BLANK
SAMPLE DATE:	09/21/09	09/21/09	
RECEIVED DATE:	09/21/09	09/21/09	
ANALYSIS DATE:	09/21/09	09/21/09	09/21/09
FILE NAME:	092103	092104	0921VBLKD1
INSTRUMENT ID:	MSD	MSD	MSD
MATRIX:	WATER	WATER	WATER
UNITS:	ug/L	ug/L	ug/L
DILUTION FACTOR:	1.0	1.0	1.0
VOLATILE COMPOUNDS			
Acetone	10 U	10 U	10 U
t-Amyl Alcohol (TAA)	20 U	20 U	20 U
t-Amyl Methyl Ether (TAME)	2.0 U	2.0 U	2.0 U
Benzene	2.0 U	2.0 U	2.0 U
Bromodichloromethane	2.0 U	2.0 U	2.0 U
Bromoform	2.0 U	2.0 U	2.0 U
Bromomethane	2.0 U	2.0 U	2.0 U
tert-Butanol (TBA)	15 U	15 U	15 U
2-Butanone (MEK)	10 U	10 U	10 U
Carbon Disulfide	2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	2.0 U	2.0 U	2.0 U
Chlorobenzene	2.0 U	2.0 U	2.0 U
Chloroethane	2.0 U	2.0 U	2.0 U
Chloroform	2.0 U	2.0 U	2.0 U
Chloromethane	2.0 U	2.0 U	2.0 U
1,2-Dibromo-3-chloropropane	2.0 U	2.0 U	2.0 U
Dibromochloromethane	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (EDB)	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	2.0 U	2.0 U	2.0 U
1,2-Dichloroethane	2.0 U	2.0 U	2.0 U
1,1-Dichloroethene	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	2.0 U	2.0 U	2.0 U
trans-1,2-Dichloroethene	2.0 U	2.0 U	2.0 U
1,2-Dichloropropane	2.0 U	2.0 U	2.0 U
cis-1,3-Dichloropropene	2.0 U	2.0 U	2.0 U
trans-1,3-Dichloropropene	2.0 U	2.0 U	2.0 U
Diisopropyl Ether (DIPE)	2.0 U	2.0 U	2.0 U
Ethyl-t-Butyl Ether (ETBE)	2.0 U	2.0 U	2.0 U
Ethylbenzene	2.0 U	2.0 U	2.0 U
2-Hexanone	10 U	10 U	10 U
4-Methyl-2-Pentanone	10 U	10 U	10 U
Methyl-t-Butyl Ether (MTBE)	2.0 U	2.0 U	2.0 U
Methylene Chloride	2.0 U	2.0 U	2.0 U
Styrene	2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U	2.0 U
Tetrachloroethene	2.4	2.0 U	2.0 U

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD 8260

CLIENT SAMPLE ID:	CHAPPELEAR-RA	CHAPPELEAR-FB	VBLK0921D1
	10-3028	10-3028	
LAB SAMPLE ID:	09092103	09092104	METHOD BLANK
SAMPLE DATE:	09/21/09	09/21/09	
RECEIVED DATE:	09/21/09	09/21/09	
ANALYSIS DATE:	09/21/09	09/21/09	09/21/09
FILE NAME:	092103	092104	0921VBLKD1
INSTRUMENT ID:	MSD	MSD	MSD
MATRIX:	WATER	WATER	WATER
UNITS:	ug/L	ug/L	ug/L
DILUTION FACTOR:	1.0	1.0	1.0
VOLATILE COMPOUNDS			
Toluene	2.0 U	2.0 U	2.0 U
1,1,1-Trichloroethane	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	2.0 U	2.0 U	2.0 U
Trichloroethene	2.0 U	2.0 U	2.0 U
Vinyl Chloride	2.0 U	2.0 U	2.0 U
o-Xylene	2.0 U	2.0 U	2.0 U
m+p-Xylenes	2.0 U	2.0 U	2.0 U

B - Detected in lab blank U - Below reported quantitation level J - Estimated value
ug/L = Microgram per liter (parts per billion)

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

SEMIVOLATILE ORGANICS BY EPA GC/MS METHOD 8270

CLIENT SAMPLE ID:	CHAPPELEAR-RA 10-3028	SWBLK092209
LAB SAMPLE ID:	09092103	METHOD BLANK
SAMPLE DATE:	09/21/09	
RECEIVED DATE:	09/21/09	
EXTRACTION DATE:	09/22/09	09/22/09
ANALYSIS DATE:	09/22/09	09/22/09
FILE NAME:	S092103	SWBLK22
INSTRUMENT ID:	MSE	MSE
MATRIX:	WATER	WATER
UNITS:	ug/L	ug/L
RELATIVE DILUTION FACTOR:	1.1	1.0

SEMIVOLATILE COMPOUNDS		
Acenaphthene	2.3 U	2.0 U
Acenaphthylene	2.3 U	2.0 U
Anthracene	2.3 U	2.0 U
Benzo(a)Anthracene	2.3 U	2.0 U
Benzo(a)Pyrene	2.3 U	2.0 U
Benzo(b)fluoranthene	2.3 U	2.0 U
Benzo(g,h,i)Perylene	2.3 U	2.0 U
Benzo(k)fluoranthene	2.3 U	2.0 U
Chrysene	2.3 U	2.0 U
Dibenz(a,h)Anthracene	2.3 U	2.0 U
Fluoranthene	2.3 U	2.0 U
Fluorene	2.3 U	2.0 U
Indeno(1,2,3-cd)Pyrene	2.3 U	2.0 U
2-Methylnaphthalene	2.3 U	2.0 U
Naphthalene	2.3 U	2.0 U
Phenanthrene	2.3 U	2.0 U
Pyrene	2.3 U	2.0 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.
ug/L - micrograms per Liter.

Culligan

Site Report

501 Maryland Ave.
Hagerstown, MD 21740
301-797-0311
800-451-7512

5201 Williamson Road
Roanoke, VA 24012
540-366-9078
800-438-5595

Commonwealth of Virginia
Department of Environmental Quality
P.O. Box 10009
Richmond, Virginia 23240
Attention: Harmon Fisher
Case Manager: Kurt Kochan

SUBJECT: Site visit report for contract PO# 12407
8938-WRNS Associates
PC# 10-3028

DATE OF VISIT: 9/3/2009 TYPE OF SERVICE: Site Assessment

EQUIPMENT: none

SUMMARY OF SERVICE PERFORMED: Collected one Raw 8260 (48hour) and one Raw 8270 (48hour) samples for analysis.

METER READING: **Previous: n/a** **Today:**

ON-SITE WATER TEST RESULTS: **Raw:** 5.5 pH 1 Hardness - Iron
Treated: pH Hardness Iron

List of attachments: Site report /Billing Invoice/Lab Results

Culligan
Trust the Water Experts.

501 Maryland Avenue
Hagerstown, MD 21740

Telephone 301-797-0311
Facsimile 301-797-2877

Stoner Enterprises, Inc.

Kurt Kochan

Account:	PO # 12407 State of Virginia	Purpose of Visit: **SA-collect 1 Raw 8260 & 1 Raw**
Name:	**8938-WRNS Associates**	**8270 (48hour)**
Address:	**721 Walker Rd**	Field
	Great Falls, VA 22066	Call Received From:**Harmon-email**
	Contact: Nancy Saunders	Date Call Received:**09/01/09**
Phone:	**703-759-2804**	Meter Reading:
PC#	**10-3028**	Previous Meter Reading:**n/a**

Person to contact for any problems:
Harmon Fisher
Dept. Environmental Quality
Water Division-OSRR
629 E. Main Street
Richmond, VA 23219
804-698-4292

Stoner Enterprises, Inc. T/A / Culligan
501 Maryland Ave.
Hagerstown, MD 21740
Attn: Joyce Feigley
301-797-0311

On-Site Water Test	Raw	Treated	Expiration Date
PH	5.5	5.5	2/11
Iron	—	—	2/12
Hardness	1	1	3/11
Sulfur	—	—	

IN CASE OF EMERGENCY CALL 301-797-0311

Round Trip mileage**130** from **Hagerstown** office
Date of Work Performed 9-3-09

Previous Site Visited Bogas
Hours Worked 30 min.

Description of Work Performed	List of Existing Equipment	
Took Raw samples on water	None	
30 min first.		
No mile Tests 30min & Sent Back		

List of Materials and/or Parts Installed or Replaced:
3/4 sch 40

Customer Signature: Nancy F. Saunders
Service Technician Signature: Tim Koontz

Print Name:
Print Name: Tim Koontz

*Exhausted Carbon to be Handled in Accordance with Stoner Enterprises, Inc. Spent Carbon Policy.

Site Assessment of Upgrade Recommendation

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD 8260

CLIENT SAMPLE ID:	WRNS ASSOC-FB	WRNS ASSOC-RA	TRIP BLANK	VBLK0904F1	VBLK0908F2
	10-3028	10-3028	10-3028		
LAB SAMPLE ID:	09090404	09090405	09090403	METHOD BLANK	METHOD BLANK
SAMPLE DATE:	09/03/09	09/03/09	09/03/09		
RECEIVED DATE:	09/04/09	09/04/09	09/04/09		
ANALYSIS DATE:	09/08/09	09/04/09	09/08/09	09/04/09	09/08/09
FILE NAME:	090404	090405	090403	0904VBLKF1	0908VBLKF2
INSTRUMENT ID:	MSF	MSF	MSF	MSF	MSF
MATRIX:	WATER	WATER	WATER	WATER	WATER
UNITS:	ug/L	ug/L	ug/L	ug/L	ug/L
DILUTION FACTOR:	1.0	1.0	1.0	1.0	1.0
VOLATILE COMPOUNDS					
Acetone	10 U	10 U	10 U	10 U	10 U
t-Amyl Alcohol (TAA)	20 U	20 U	20 U	20 U	20 U
t-Amyl Methyl Ether (TAME)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromodichloromethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromoform	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
tert-Butanol (TBA)	15 U	15 U	15 U	15 U	15 U
2-Butanone (MEK)	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	2.0 U	5.8	2.0 U	2.0 U	2.0 U
Chloromethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromo-3-chloropropane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Dibromochloromethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (EDB)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
trans-1,2-Dichloroethene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloropropane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,3-Dichloropropene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
trans-1,3-Dichloropropene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Diisopropyl Ether (DIPE)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Ethyl-t-Butyl Ether (ETBE)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Ethylbenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U	10 U
Methyl-t-Butyl Ether (MTBE)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methylene Chloride	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD 8260

CLIENT SAMPLE ID:	WRNS ASSOC-FB	WRNS ASSOC-RA	TRIP BLANK	VBLK0904F1	VBLK0908F2
	10-3028	10-3028	10-3028		
LAB SAMPLE ID:	09090404	09090405	09090403	METHOD BLANK	METHOD BLANK
SAMPLE DATE:	09/03/09	09/03/09	09/03/09		
RECEIVED DATE:	09/04/09	09/04/09	09/04/09		
ANALYSIS DATE:	09/08/09	09/04/09	09/08/09	09/04/09	09/08/09
FILE NAME:	090404	090405	090403	0904VBLKF1	0908VBLKF2
INSTRUMENT ID:	MSF	MSF	MSF	MSF	MSF
MATRIX:	WATER	WATER	WATER	WATER	WATER
UNITS:	ug/L	ug/L	ug/L	ug/L	ug/L
DILUTION FACTOR:	1.0	1.0	1.0	1.0	1.0
VOLATILE COMPOUNDS					
Toluene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,1-Trichloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Trichloroethene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl Chloride	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
m+p-Xylenes	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

B - Detected in lab blank U - Below reported quantitation level J - Estimated value
ug/L = Microgram per liter (parts per billion)

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

SEMIVOLATILE ORGANICS BY EPA GC/MS METHOD 8270

CLIENT SAMPLE ID:	WRNS ASSOC-RA 10-3028	SWBLK090409
LAB SAMPLE ID:	09090405	METHOD BLANK
SAMPLE DATE:	09/03/09	
RECEIVED DATE:	09/04/09	
EXTRACTION DATE:	09/04/09	09/04/09
ANALYSIS DATE:	09/08/09	09/08/09
FILE NAME:	S090405	SWBLK04
INSTRUMENT ID:	MSE	MSE
MATRIX:	WATER	WATER
UNITS:	ug/L	ug/L
RELATIVE DILUTION FACTOR:	1.0	1.0

SEMIVOLATILE COMPOUNDS		
Acenaphthene	2.0 U	2.0 U
Acenaphthylene	2.0 U	2.0 U
Anthracene	2.0 U	2.0 U
Benzo(a)Anthracene	2.0 U	2.0 U
Benzo(a)Pyrene	2.0 U	2.0 U
Benzo(b)fluoranthene	2.0 U	2.0 U
Benzo(g,h,i)Perylene	2.0 U	2.0 U
Benzo(k)fluoranthene	2.0 U	2.0 U
Chrysene	2.0 U	2.0 U
Dibenz(a,h)Anthracene	2.0 U	2.0 U
Fluoranthene	2.0 U	2.0 U
Fluorene	2.0 U	2.0 U
Indeno(1,2,3-cd)Pyrene	2.0 U	2.0 U
2-Methylnaphthalene	2.0 U	2.0 U
Naphthalene	2.0 U	2.0 U
Phenanthrene	2.0 U	2.0 U
Pyrene	2.0 U	2.0 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.
ug/L - micrograms per Liter.

Culligan

Site Report

501 Maryland Ave.
Hagerstown, MD 21740
301-797-0311
800-451-7512

5201 Williamson Road
Roanoke, VA 24012
540-366-9078
800-438-5595

Commonwealth of Virginia
Department of Environmental Quality
P.O. Box 10009
Richmond, Virginia 23240
Attention: Harmon Fisher
Case Manager: Kurt Kochan

SUBJECT: Site visit report for contract PO# 12407
8937-Boggs Residence
PC# 10-3028

DATE OF VISIT: 9/3/2009 TYPE OF SERVICE: Site Assessment

EQUIPMENT: 2 Acid Filters

SUMMARY OF SERVICE PERFORMED: Collected one Raw 8260 (48hour) and one Raw 8270 (48hour) samples for analysis.

METER READING: **Previous: n/a** **Today:**

ON-SITE WATER TEST RESULTS:				
	Raw:	6.0 pH	0 Hardness	- Iron
	Treated:	7.2 pH	5 Hardness	- Iron

List of attachments: Site report /Billing Invoice/Lab Results

Culligan
Trust the Water Experts.

501 Maryland Avenue
Hagerstown, MD 21740

Telephone 301-797-0311
Facsimile 301-797-2877

Stoner Enterprises, Inc.

Kurt Kochan

Account:	PO # 12407 State of Virginia	Purpose of Visit: **SA-collect 1 Raw 8260 & 1 Raw**
Name:	**8937-Boggs Res**	**8270 (48hour)** Field + Trip
Address:	**716 Walker Rd**	
	Great Falls, VA 22066	Call Received From:**Harmon-email**
	Contact: Barbara	Date Call Received:**09/01/09**
Phone:	**703-759-0963**	Meter Reading:
PC#	**10-3028**	Previous Meter Reading:**n/a**

Person to contact for any problems:
Harmon Fisher
Dept. Environmental Quality
Water Division-OSRR
629 E. Main Street
Richmond, VA 23219
804-698-4292

Stoner Enterprises, Inc. T/A /
Culligan
501 Maryland Ave.
Hagerstown, MD 21740
Attn: Joyce Feigley
301-797-0311

On-Site Water Test

	Raw	Treated	Expiration Date
PH	6.0	7.2	2-11
Iron	—	—	9-12
Hardness	0	5	3-11
Sulfur	—	—	

IN CASE OF EMERGENCY CALL 301-797-0311

Round Trip mileage**130** from **Hagerstown** office
Previous Site Visited Shop
Date of Work Performed 9-3-09
Hours Worked 30min

Description of Work Performed	List of Existing Equipment	
Took All samples RAW water	Two 12" sediment filters	
20min Then Took samples 48hr		
Testing		
65 mile Fee		

List of Materials and/or Parts Installed or Replaced:
1" copper pipes

Customer Signature: Barbara W. Boggs
Service Technician Signature: Tim Koontz

Print Name:
Print Name: Tim Koontz

*Exhausted Carbon to be Handled in Accordance with Stoner Enterprises, Inc. Spent Carbon Policy.

Site Assessment of Upgrade Recommendation

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD 8260

CLIENT SAMPLE ID:	BOGGS-RA	VBLK0904F1
	10-3028	
LAB SAMPLE ID:	09090401	METHOD BLANK
SAMPLE DATE:	09/03/09	
RECEIVED DATE:	09/04/09	
ANALYSIS DATE:	09/04/09	09/04/09
FILE NAME:	090401	0904VBLKF1
INSTRUMENT ID:	MSF	MSF
MATRIX:	WATER	WATER
UNITS:	ug/L	ug/L
DILUTION FACTOR:	1.0	1.0

VOLATILE COMPOUNDS				
Acetone	10	U	10	U
t-Amyl Alcohol (TAA)	20	U	20	U
t-Amyl Methyl Ether (TAME)	2.0	U	2.0	U
Benzene	2.0	U	2.0	U
Bromodichloromethane	2.0	U	2.0	U
Bromoform	2.0	U	2.0	U
Bromomethane	2.0	U	2.0	U
tert-Butanol (TBA)	15	U	15	U
2-Butanone (MEK)	10	U	10	U
Carbon Disulfide	2.0	U	2.0	U
Carbon Tetrachloride	2.0	U	2.0	U
Chlorobenzene	2.0	U	2.0	U
Chloroethane	2.0	U	2.0	U
Chloroform	2.0	U	2.0	U
Chloromethane	2.0	U	2.0	U
1,2-Dibromo-3-chloropropane	2.0	U	2.0	U
Dibromochloromethane	2.0	U	2.0	U
1,2-Dibromoethane (EDB)	2.0	U	2.0	U
1,1-Dichloroethane	2.0	U	2.0	U
1,2-Dichloroethane	2.0	U	2.0	U
1,1-Dichloroethene	2.0	U	2.0	U
cis-1,2-Dichloroethene	2.0	U	2.0	U
trans-1,2-Dichloroethene	2.0	U	2.0	U
1,2-Dichloropropane	2.0	U	2.0	U
cis-1,3-Dichloropropene	2.0	U	2.0	U
trans-1,3-Dichloropropene	2.0	U	2.0	U
Diisopropyl Ether (DIPE)	2.0	U	2.0	U
Ethyl-t-Butyl Ether (ETBE)	2.0	U	2.0	U
Ethylbenzene	2.0	U	2.0	U
2-Hexanone	10	U	10	U
4-Methyl-2-Pentanone	10	U	10	U
Methyl-t-Butyl Ether (MTBE)	2.0	U	2.0	U
Methylene Chloride	2.0	U	2.0	U
Styrene	2.0	U	2.0	U
1,1,2,2-Tetrachloroethane	2.0	U	2.0	U
Tetrachloroethene	2.0	U	2.0	U

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD 8260

CLIENT SAMPLE ID:	BOGGS-RA 10-3028	VBLK0904F1
LAB SAMPLE ID:	09090401	METHOD BLANK
SAMPLE DATE:	09/03/09	
RECEIVED DATE:	09/04/09	
ANALYSIS DATE:	09/04/09	09/04/09
FILE NAME:	090401	0904VBLKF1
INSTRUMENT ID:	MSF	MSF
MATRIX:	WATER	WATER
UNITS:	ug/L	ug/L
DILUTION FACTOR:	*1.0*	*1.0*

VOLATILE COMPOUNDS		
Toluene	2.0 U	2.0 U
1,1,1-Trichloroethane	2.0 U	2.0 U
1,1,2-Trichloroethane	2.0 U	2.0 U
Trichloroethene	2.0 U	2.0 U
Vinyl Chloride	2.0 U	2.0 U
o-Xylene	2.0 U	2.0 U
m+p-Xylenes	2.0 U	2.0 U

B - Detected in lab blank U - Below reported quantitation level J - Estimated value
ug/L = Microgram per liter (parts per billion)

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

SEMIVOLATILE ORGANICS BY EPA GC/MS METHOD 8270

CLIENT SAMPLE ID:	BOGGS-RA 10-3028	SWBLK090409
LAB SAMPLE ID:	09090401	METHOD BLANK
SAMPLE DATE:	09/03/09	
RECEIVED DATE:	09/04/09	
EXTRACTION DATE:	09/04/09	09/04/09
ANALYSIS DATE:	09/08/09	09/08/09
FILE NAME:	S090401	SWBLK04
INSTRUMENT ID:	MSE	MSE
MATRIX:	WATER	WATER
UNITS:	ug/L	ug/L
RELATIVE DILUTION FACTOR:	1.0	1.0
SEMIVOLATILE COMPOUNDS		
Acenaphthene	2.0 U	2.0 U
Acenaphthylene	2.0 U	2.0 U
Anthracene	2.0 U	2.0 U
Benzo(a)Anthracene	2.0 U	2.0 U
Benzo(a)Pyrene	2.0 U	2.0 U
Benzo(b)fluoranthene	2.0 U	2.0 U
Benzo(g,h,i)Perylene	2.0 U	2.0 U
Benzo(k)fluoranthene	2.0 U	2.0 U
Chrysene	2.0 U	2.0 U
Dibenz(a,h)Anthracene	2.0 U	2.0 U
Fluoranthene	2.0 U	2.0 U
Fluorene	2.0 U	2.0 U
Indeno(1,2,3-cd)Pyrene	2.0 U	2.0 U
2-Methylnaphthalene	2.0 U	2.0 U
Naphthalene	2.0 U	2.0 U
Phenanthrene	2.0 U	2.0 U
Pyrene	2.0 U	2.0 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.
ug/L - micrograms per Liter.

Culligan

Site Report

501 Maryland Ave.
Hagerstown, MD 21740
301-797-0311
800-451-7512

5201 Williamson Road
Roanoke, VA 24012
540-366-9078
800-438-5595

Commonwealth of Virginia
Department of Environmental Quality
P.O. Box 10009
Richmond, Virginia 23240
Attention: Harmon Fisher
Case Manager: Kurt Kochan

SUBJECT: Site visit report for contract PO# 12407
8918-Kan Residence
PC# 10-3028

DATE OF VISIT: 08/31/09 TYPE OF SERVICE: Site Assessment

EQUIPMENT:

SUMMARY OF SERVICE PERFORMED: Collected one Raw 8260 (48hour) and one Raw 8270 (48hour) samples for analysis.

METER READING: **Previous: n/a** **Today:**

ON-SITE WATER TEST RESULTS:		pH	Hardness	Iron
	Raw:			
	Treated:	7.0 pH	5 Hardness	- Iron

List of attachments: Site report /Billing Invoice/Lab Results

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Culligan
Trust the Water Experts.

501 Maryland Avenue
Hagerstown, MD 21740

Telephone 301-797-0311
Facsimile 301-797-2877

Stoner Enterprises, Inc.

8918-

Kurt Kochan

Account:	PO # 12407 State of Virginia	Purpose of Visit: **collect 1 Raw 8260 & 1 Raw 8270**
Name:	**Lucy Kan**	**all 48hour, also send Trip & field blanks**
Address:	**613 Deerfield Pond Ct**	
	Great Falls, VA 22066	Call Received From:**Harmon-email**
		Date Call Received:**08/2809**
Phone:	**703-759-5387**	Meter Reading:
PC#	**10-3028**	Previous Meter Reading:**n/a**

Person to contact for any problems:
Harmon Fisher
Dept. Environmental Quality
Water Division-OSRR
629 E. Main Street
Richmond, VA 23219
804-698-4292

Stoner Enterprises, Inc. T/A /
Culligan
501 Maryland Ave.
Hagerstown, MD 21740
Attn: Joyce Feigley
301-797-0311

On-Site Water Test	Raw	Treated	Expiration Date
PH		70	2-11
Iron			9-12
Hardness		5	3-11
Sulfur		neg	

IN CASE OF EMERGENCY CALL 301-797-0311

Round Trip mileage**130** from **Hagerstown** office Previous Site Visited Kurbower
Date of Work Performed 8/31/09 Hours Worked 30 min.

Description of Work Performed	List of Existing Equipment	
Took Raw samples for		
48 hr. Testing		
No info Tests 30 min 65 mile round		

List of Materials and/or Parts Installed or Replaced: 1" sch 40 + 3/4 copper

Customer Signature: Service Technician Signature:

Print Name: Print Name: Tim Korth

*Exhausted Carbon to be Handled in Accordance with Stoner Enterprises, Inc. Spent Carbon Policy.

Site Assessment of Upgrade Recommendation

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD 8260

CLIENT SAMPLE ID:	KAN-RA	VBLK0901F1
	10-3028	
LAB SAMPLE ID:	09083110	METHOD BLANK
SAMPLE DATE:	08/31/09	
RECEIVED DATE:	08/31/09	
ANALYSIS DATE:	09/01/09	09/01/09
FILE NAME:	083110	0901VBLKF1
INSTRUMENT ID:	MSF	MSF
MATRIX:	WATER	WATER
UNITS:	ug/L	ug/L
DILUTION FACTOR:	1.0	1.0

VOLATILE COMPOUNDS		
Acetone	10 U	10 U
t-Amyl Alcohol (TAA)	20 U	20 U
t-Amyl Methyl Ether (TAME)	2.0 U	2.0 U
Benzene	2.0 U	2.0 U
Bromodichloromethane	2.0 U	2.0 U
Bromoform	2.0 U	2.0 U
Bromomethane	2.0 U	2.0 U
tert-Butanol (TBA)	15 U	15 U
2-Butanone (MEK)	10 U	10 U
Carbon Disulfide	2.0 U	2.0 U
Carbon Tetrachloride	2.0 U	2.0 U
Chlorobenzene	2.0 U	2.0 U
Chloroethane	2.0 U	2.0 U
Chloroform	2.0 U	2.0 U
Chloromethane	2.0 U	2.0 U
1,2-Dibromo-3-chloropropane	2.0 U	2.0 U
Dibromochloromethane	2.0 U	2.0 U
1,2-Dibromoethane (EDB)	2.0 U	2.0 U
1,1-Dichloroethane	2.0 U	2.0 U
1,2-Dichloroethane	2.0 U	2.0 U
1,1-Dichloroethene	2.0 U	2.0 U
cis-1,2-Dichloroethene	2.0 U	2.0 U
trans-1,2-Dichloroethene	2.0 U	2.0 U
1,2-Dichloropropane	2.0 U	2.0 U
cis-1,3-Dichloropropene	2.0 U	2.0 U
trans-1,3-Dichloropropene	2.0 U	2.0 U
Diisopropyl Ether (DIPE)	2.0 U	2.0 U
Ethyl-t-Butyl Ether (ETBE)	2.0 U	2.0 U
Ethylbenzene	2.0 U	2.0 U
2-Hexanone	10 U	10 U
4-Methyl-2-Pentanone	10 U	10 U
Methyl-t-Butyl Ether (MTBE)	2.0 U	2.0 U
Methylene Chloride	2.0 U	2.0 U
Styrene	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U
Tetrachloroethene	2.0 U	2.0 U

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD 8260

CLIENT SAMPLE ID:	KAN-RA 10-3028	VBLK0901F1
LAB SAMPLE ID:	09083110	METHOD BLANK
SAMPLE DATE:	08/31/09	
RECEIVED DATE:	08/31/09	
ANALYSIS DATE:	09/01/09	09/01/09
FILE NAME:	083110	0901VBLKF1
INSTRUMENT ID:	MSF	MSF
MATRIX:	WATER	WATER
UNITS:	ug/L	ug/L
DILUTION FACTOR:	1.0	1.0

VOLATILE COMPOUNDS		
Toluene	2.0 U	2.0 U
1,1,1-Trichloroethane	2.0 U	2.0 U
1,1,2-Trichloroethane	2.0 U	2.0 U
Trichloroethene	2.0 U	2.0 U
Vinyl Chloride	2.0 U	2.0 U
o-Xylene	2.0 U	2.0 U
m+p-Xylenes	2.0 U	2.0 U

B - Detected in lab blank U - Below reported quantitation level J - Estimated value
ug/L = Microgram per liter (parts per billion)

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

SEMIVOLATILE ORGANICS BY EPA GC/MS METHOD 8270

CLIENT SAMPLE ID:	KAN-RA 10-3028	SWBLK090109
LAB SAMPLE ID:	09083110	METHOD BLANK
SAMPLE DATE:	08/31/09	
RECEIVED DATE:	08/31/09	
EXTRACTION DATE:	09/01/09	09/01/09
ANALYSIS DATE:	09/01/09	09/01/09
FILE NAME:	S083110	SWBLK01
INSTRUMENT ID:	MSE	MSE
MATRIX:	WATER	WATER
UNITS:	ug/L	ug/L
RELATIVE DILUTION FACTOR:	1.0	1.0
SEMIVOLATILE COMPOUNDS		
Acenaphthene	2.0 U	2.0 U
Acenaphthylene	2.0 U	2.0 U
Anthracene	2.0 U	2.0 U
Benzo(a)Anthracene	2.0 U	2.0 U
Benzo(a)Pyrene	2.0 U	2.0 U
Benzo(b)fluoranthene	2.0 U	2.0 U
Benzo(g,h,i)Perylene	2.0 U	2.0 U
Benzo(k)fluoranthene	2.0 U	2.0 U
Chrysene	2.0 U	2.0 U
Dibenz(a,h)Anthracene	2.0 U	2.0 U
Fluoranthene	2.0 U	2.0 U
Fluorene	2.0 U	2.0 U
Indeno(1,2,3-cd)Pyrene	2.0 U	2.0 U
2-Methylnaphthalene	2.0 U	2.0 U
Naphthalene	2.0 U	2.0 U
Phenanthrene	2.0 U	2.0 U
Pyrene	2.0 U	2.0 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.
ug/L - micrograms per Liter.

Culligan
Site Report

501 Maryland Ave.
Hagerstown, MD 21740
301-797-0311
800-451-7512

5201 Williamson Road
Roanoke, VA 24012
540-366-9078
800-438-5595

Commonwealth of Virginia
Department of Environmental Quality
P.O. Box 10009
Richmond, Virginia 23240
Attention: Harmon Fisher
Case Manager: Kurt Kochan

SUBJECT: Site visit report for contract PO# 12407
8917-Kurbanov Residence
PC# 10-3028

DATE OF VISIT: 08/31/09 TYPE OF SERVICE: Site Assessment

EQUIPMENT: Acid Filter

SUMMARY OF SERVICE PERFORMED: Collected one Raw 8260 (48hour) and one Raw 8270 (48hour) samples for analysis.

METER READING: **Previous: n/a** **Today:**

ON-SITE WATER TEST RESULTS:

	pH	Hardness	Iron
Raw:			
Treated:	7.0 pH	5 Hardness	- Iron

List of attachments: Site report /Billing Invoice/Lab Results

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Culligan
Trust the Water Experts

501 Maryland Avenue
Hagerstown, MD 21740

Telephone 301-797-0311
Facsimile 301-797-2877

Stoner Enterprises, Inc.

8917

Kurt Kochan

Account:	PO # 12407 State of Virginia	Purpose of Visit: **collect 1 Raw 8260 & 1 Raw 8270**
Name:	**Anastasia Kurbanov**	**all 48hour, also send Trip & field blanks**
Address:	**808 Constellation Rd**	
	Great Falls, VA 22066	Call Received From:**Harmon-email**
		Date Call Received:**08/2809**
Phone:	**703-759-4459**	Meter Reading:
PC#	**10-3028**	Previous Meter Reading:**n/a**

Person to contact for any problems:
Harmon Fisher
Dept. Environmental Quality
Water Division-OSRR
629 E. Main Street
Richmond, VA 23219
804-698-4292

Stoner Enterprises, Inc. T/A /
Culligan
501 Maryland Ave.
Hagerstown, MD 21740
Attn: Joyce Feigley
301-797-0311

On-Site Water Test	Raw	Treated	Expiration Date
PH		7.0	2-11
Iron		/	9-12
Hardness		5	3-11
Sulfur		ND	

IN CASE OF EMERGENCY CALL 301-797-0311

Round Trip mileage**130** from **Hagerstown** office Previous Site Visited Knudsen
Date of Work Performed 8-31-09 Hours Worked 30 min,

Description of Work Performed	List of Existing Equipment	
Took Raw Samples	Acid Filter	
for 48hr. Testing		
40 mils Tests 30 min		

List of Materials and/or Parts Installed or Replaced:
3/4 copper

Customer Signature: _____ Service Technician Signature: [signature]

Print Name: _____ Print Name: Tim Kourtz

*Exhausted Carbon to be Handled in Accordance with Stoner Enterprises, Inc. Spent Carbon Policy.

Site Assessment of Upgrade Recommendation

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD 8260

CLIENT SAMPLE ID:	KURBANOV-RA	VBLK0901F1
	10-3028	
LAB SAMPLE ID:	09083105	METHOD BLANK
SAMPLE DATE:	08/31/09	
RECEIVED DATE:	08/31/09	
ANALYSIS DATE:	09/01/09	09/01/09
FILE NAME:	083105	0901VBLKF1
INSTRUMENT ID:	MSF	MSF
MATRIX:	WATER	WATER
UNITS:	ug/L	ug/L
DILUTION FACTOR:	1.0	1.0

VOLATILE COMPOUNDS				
Acetone	10	U	10	U
t-Amyl Alcohol (TAA)	20	U	20	U
t-Amyl Methyl Ether (TAME)	2.0	U	2.0	U
Benzene	2.0	U	2.0	U
Bromodichloromethane	2.0	U	2.0	U
Bromoform	2.0	U	2.0	U
Bromomethane	2.0	U	2.0	U
tert-Butanol (TBA)	15	U	15	U
2-Butanone (MEK)	10	U	10	U
Carbon Disulfide	2.0	U	2.0	U
Carbon Tetrachloride	2.0	U	2.0	U
Chlorobenzene	2.0	U	2.0	U
Chloroethane	2.0	U	2.0	U
Chloroform	2.0	U	2.0	U
Chloromethane	2.0	U	2.0	U
1,2-Dibromo-3-chloropropane	2.0	U	2.0	U
Dibromochloromethane	2.0	U	2.0	U
1,2-Dibromoethane (EDB)	2.0	U	2.0	U
1,1-Dichloroethane	2.0	U	2.0	U
1,2-Dichloroethane	2.0	U	2.0	U
1,1-Dichloroethene	2.0	U	2.0	U
cis-1,2-Dichloroethene	2.0	U	2.0	U
trans-1,2-Dichloroethene	2.0	U	2.0	U
1,2-Dichloropropane	2.0	U	2.0	U
cis-1,3-Dichloropropene	2.0	U	2.0	U
trans-1,3-Dichloropropene	2.0	U	2.0	U
Diisopropyl Ether (DIPE)	2.0	U	2.0	U
Ethyl-t-Butyl Ether (ETBE)	2.0	U	2.0	U
Ethylbenzene	2.0	U	2.0	U
2-Hexanone	10	U	10	U
4-Methyl-2-Pentanone	10	U	10	U
Methyl-t-Butyl Ether (MTBE)	2.0	U	2.0	U
Methylene Chloride	2.0	U	2.0	U
Styrene	2.0	U	2.0	U
1,1,2,2-Tetrachloroethane	2.0	U	2.0	U
Tetrachloroethene	2.0	U	2.0	U

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD 8260

CLIENT SAMPLE ID:	KURBANOV-RA 10-3028	VBLK0901F1
LAB SAMPLE ID:	09083105	METHOD BLANK
SAMPLE DATE:	08/31/09	
RECEIVED DATE:	08/31/09	
ANALYSIS DATE:	09/01/09	09/01/09
FILE NAME:	083105	0901VBLKF1
INSTRUMENT ID:	MSF	MSF
MATRIX:	WATER	WATER
UNITS:	ug/L	ug/L
DILUTION FACTOR:	1.0	1.0
VOLATILE COMPOUNDS		
Toluene	2.0 U	2.0 U
1,1,1-Trichloroethane	2.0 U	2.0 U
1,1,2-Trichloroethane	2.0 U	2.0 U
Trichloroethene	2.0 U	2.0 U
Vinyl Chloride	2.0 U	2.0 U
o-Xylene	2.0 U	2.0 U
m+p-Xylenes	2.0 U	2.0 U

B - Detected in lab blank U - Below reported quantitation level J - Estimated value
ug/L = Microgram per liter (parts per billion)

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

SEMIVOLATILE ORGANICS BY EPA GC/MS METHOD 8270

CLIENT SAMPLE ID:	KURBANOV-RA 10-3028	SWBLK090109
LAB SAMPLE ID:	09083105	METHOD BLANK
SAMPLE DATE:	08/31/09	
RECEIVED DATE:	08/31/09	
EXTRACTION DATE:	09/01/09	09/01/09
ANALYSIS DATE:	09/01/09	09/01/09
FILE NAME:	S083105	SWBLK01
INSTRUMENT ID:	MSE	MSE
MATRIX:	WATER	WATER
UNITS:	ug/L	ug/L
RELATIVE DILUTION FACTOR:	1.0	1.0

SEMIVOLATILE COMPOUNDS		
Acenaphthene	2.0 U	2.0 U
Acenaphthylene	2.0 U	2.0 U
Anthracene	2.0 U	2.0 U
Benzo(a)Anthracene	2.0 U	2.0 U
Benzo(a)Pyrene	2.0 U	2.0 U
Benzo(b)fluoranthene	2.0 U	2.0 U
Benzo(g,h,i)Perylene	2.0 U	2.0 U
Benzo(k)fluoranthene	2.0 U	2.0 U
Chrysene	2.0 U	2.0 U
Dibenz(a,h)Anthracene	2.0 U	2.0 U
Fluoranthene	2.0 U	2.0 U
Fluorene	2.0 U	2.0 U
Indeno(1,2,3-cd)Pyrene	2.0 U	2.0 U
2-Methylnaphthalene	2.0 U	2.0 U
Naphthalene	2.0 U	2.0 U
Phenanthrene	2.0 U	2.0 U
Pyrene	2.0 U	2.0 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.
ug/L - micrograms per Liter.

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD 8260

CLIENT SAMPLE ID:	KERMANCHI-RA 10-3028	VBLK1021A1
LAB SAMPLE ID:	09102157	METHOD BLANK
SAMPLE DATE:	10/21/09	
RECEIVED DATE:	10/21/09	
ANALYSIS DATE:	10/21/09	10/21/09
FILE NAME:	102157	1021VBLKA1
INSTRUMENT ID:	MSA	MSA
MATRIX:	WATER	WATER
UNITS:	ug/L	ug/L
DILUTION FACTOR:	1.0	1.0

VOLATILE COMPOUNDS				
Acetone	10	U	10	U
t-Amyl Alcohol (TAA)	20	U	20	U
t-Amyl Methyl Ether (TAME)	2.0	U	2.0	U
Benzene	2.0	U	2.0	U
Bromodichloromethane	2.0	U	2.0	U
Bromoform	2.0	U	2.0	U
Bromomethane	2.0	U	2.0	U
tert-Butanol (TBA)	15	U	15	U
2-Butanone (MEK)	10	U	10	U
Carbon Disulfide	2.0	U	2.0	U
Carbon Tetrachloride	2.0	U	2.0	U
Chlorobenzene	2.0	U	2.0	U
Chloroethane	2.0	U	2.0	U
Chloroform	2.0	U	2.0	U
Chloromethane	2.0	U	2.0	U
1,2-Dibromo-3-chloropropane	2.0	U	2.0	U
Dibromochloromethane	2.0	U	2.0	U
1,2-Dibromoethane (EDB)	2.0	U	2.0	U
1,1-Dichloroethane	2.0	U	2.0	U
1,2-Dichloroethane	2.0	U	2.0	U
1,1-Dichloroethene	2.0	U	2.0	U
cis-1,2-Dichloroethene	2.0	U	2.0	U
trans-1,2-Dichloroethene	2.0	U	2.0	U
1,2-Dichloropropane	2.0	U	2.0	U
cis-1,3-Dichloropropene	2.0	U	2.0	U
trans-1,3-Dichloropropene	2.0	U	2.0	U
Diisopropyl Ether (DIPE)	2.0	U	2.0	U
Ethyl-t-Butyl Ether (ETBE)	2.0	U	2.0	U
Ethylbenzene	2.0	U	2.0	U
2-Hexanone	10	U	10	U
4-Methyl-2-Pentanone	10	U	10	U
Methyl-t-Butyl Ether (MTBE)	2.0	U	2.0	U
Methylene Chloride	2.0	U	2.0	U
Styrene	2.0	U	2.0	U
1,1,2,2-Tetrachloroethane	2.0	U	2.0	U
Tetrachloroethene	2.0	U	2.0	U

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

VOLATILE ORGANICS BY EPA GC/MS METHOD 8260

CLIENT SAMPLE ID:	KERMANCHI-RA 10-3028	VBLK1021A1
LAB SAMPLE ID:	09102157	METHOD BLANK
SAMPLE DATE:	10/21/09	
RECEIVED DATE:	10/21/09	
ANALYSIS DATE:	10/21/09	10/21/09
FILE NAME:	102157	1021VBLKA1
INSTRUMENT ID:	MSA	MSA
MATRIX:	WATER	WATER
UNITS:	ug/L	ug/L
DILUTION FACTOR:	1.0	1.0

VOLATILE COMPOUNDS		
Toluene	2.0 U	2.0 U
1,1,1-Trichloroethane	2.0 U	2.0 U
1,1,2-Trichloroethane	2.0 U	2.0 U
Trichloroethene	2.0 U	2.0 U
Vinyl Chloride	2.0 U	2.0 U
o-Xylene	2.0 U	2.0 U
m+p-Xylenes	2.0 U	2.0 U

B - Detected in lab blank U - Below reported quantitation level J - Estimated value
ug/L = microgram per Liter (parts per billion)

MARYLAND SPECTRAL SERVICES, INC.
1500 Caton Center Drive Baltimore, MD 21227

SEMIVOLATILE ORGANICS BY EPA GC/MS METHOD 8270

CLIENT SAMPLE ID:	KERMANCHI-RA 10-3028	SWBLK102209
LAB SAMPLE ID:	09102157	METHOD BLANK
SAMPLE DATE:	10/21/09	
RECEIVED DATE:	10/21/09	
EXTRACTION DATE:	10/22/09	10/22/09
ANALYSIS DATE:	10/23/09	10/23/09
FILE NAME:	S102157	SWBLK22
INSTRUMENT ID:	MSE	MSE
MATRIX:	WATER	WATER
UNITS:	ug/L	ug/L
RELATIVE DILUTION FACTOR:	1.0	1.0
SEMIVOLATILE COMPOUNDS		
Acenaphthene	2.0 U	2.0 U
Acenaphthylene	2.0 U	2.0 U
Anthracene	2.0 U	2.0 U
Benzo(a)Anthracene	2.0 U	2.0 U
Benzo(a)Pyrene	2.0 U	2.0 U
Benzo(b)fluoranthene	2.0 U	2.0 U
Benzo(g,h,i)Perylene	2.0 U	2.0 U
Benzo(k)fluoranthene	2.0 U	2.0 U
Chrysene	2.0 U	2.0 U
Dibenz(a,h)Anthracene	2.0 U	2.0 U
Fluoranthene	2.0 U	2.0 U
Fluorene	2.0 U	2.0 U
Indeno(1,2,3-cd)Pyrene	2.0 U	2.0 U
2-Methylnaphthalene	2.0 U	2.0 U
Naphthalene	2.0 U	2.0 U
Phenanthrene	2.0 U	2.0 U
Pyrene	2.0 U	2.0 U

B - Detected in Lab Blank. U - Below Reported Quantitation Level. J - Estimated Value.
ug/L - micrograms per Liter.

APPENDIX I

Soil Boring Logs and Monitoring Well Construction Records

WELL LOG

ID NO. **MW-6**

Groundwater and Environmental Services, Inc.

PROJECT:	ExxonMobil Station # 2-6140	WATER DEPTH:	TOTAL DEPTH: 35'
ADDRESS:	9901 Georgetown Pike, Great Falls, VA		CASING EL.: 321.85
JOB NO.	0402403	BOREHOLE DIA.: 6.25"	WELL DIA.: 4"

Logged By:	Tim Davis	Drilling Method:	Hollow Stem Auger/Air Rotary
Dates Drilled:	9/11/2009	Sampling Method:	Split Spoon
Drilling Company:	B.L. Meyers	Soil Class. System:	NA
Well Permit #:		Field Screening:	MiniRae 2000, Model PGM 7600

Depth (feet)	Sample Interval (feet)	Field Screen: Total Organic Volatiles (ppm) 0 – 10	Blow Counts	Recovery (inches)	Sample Lithology	Stratigraphy	Comments	Completion Details
0					Fill materials from Air-Knifing operations	Fill	Air-knifed 0-5 fbg for utility clearance	8" Flush-Mount Manway with concrete 0'-0.5'
5					SILT trace sand, non-plastic, med-sorted, high mica content,stiff, layered structured, red-tan	Silt		Grout 0.5'-16'
10	10-12	0.0	4-4-5-19	12"				
	12-14	0.0	45-55-0-0	24"				
	14-16	0.0	18-21-56-0	18"				
15	16-18	0.0	3-3-3-4	12"	Silt trace sand, non-plastic, med-sorded, high mica content, loose, none structured, red-tan			Bentonite Plug 16'-18'
	18-20	0.0	22-60-0-0	12"				
20	20-22	0.0	27-65-0-0	6"	Structured Saprolite with trace rock fragments, stiff, mica foliations 0.25" thick	Saprolite	sample collected from 22-24 fbg	#2 Sandpack 18'-35'
	22-24	1.5	23-70-0-0	4"			Static water level at 22.8 fbg	
25					Structured Saprolite with layered 0.2.5-0.5" angular rock fragments, mica foliations 0.25" think		Spoon and Auger refusal at 24 fbg	
30								
35								5" PVC Cap35'

LEGEND

Proportion Descriptions:
Trace = <10% Some = <50%
Little = <25% And = 50%

Symbol Key:
Water Level
Sample Location

fbg = feet below grade
NA = not available
ppm = parts per million
in. = inches

Groundwater & Environmental Services, Inc.
2142 Priest Bridge Court, Crofton, Maryland 800.220.3606 Fax 410.721.3733

WELL LOG

ID NO. **MW-6D**

Groundwater and Environmental Services, Inc.

PROJECT:	ExxonMobil Station # 2-6140	WATER DEPTH:	TOTAL DEPTH: 35'
ADDRESS:	9901 Georgetown Pike, Great Falls, VA		CASING EL.: 323.09
JOB NO.	0402403	BOREHOLE DIA.: 6.25"	WELL DIA.: 6"

Logged By:	Tim Davis	Drilling Method:	Air Rotary
Dates Drilled:	9/11/2009	Sampling Method:	Split Spoon
Drilling Company:	B.L. Meyers	Soil Class. System:	NA
Well Permit #:		Field Screening:	MiniRae 2000, Model PGM 7600

Depth (feet)	Sample Interval (feet)	Field Screen: Total Organic Volatiles (ppm) 0 – 10	Blow Counts	Recovery (inches)	Sample Lithology	Stratigraphy	Comments	Completion Details
10-12	10-12	0.0	4-4-5-19	12"	Fill materials from Air-Knifing operations	Fill	Air-knifed 0-5 fbg for utility clearance	8" Flush-Mount Manway with concrete 0'-0.5'
12-14	12-14	0.0	45-55-0-0	24"	Silt trace sand, non-plastic, med-sorted, high mica content, loose, none structured, red-tan	Silt		
14-16	14-16	0.0	16-21-56-0	18"			Soil lithology taken from MW-6 Samples	
16-18	16-18	0.0	3-3-3-4	12"				
18-20	18-20	0.0	22-60-0-0	12"	Structured Saprolite with layered 0.2.5-0.5" angular rock fragments, mica foliations 0.25" think	Saprolite	Static water level at 27 fbg	Grout 0.5'-65'
20-22	20-22	0.0	27-65-0-0	6"				
22-24	22-24	1.5	23-70-0-0	4"				
60					Weathered Schist, rapid penetration rate (>1ft/min), tan-grey.	Schist		6" steel casing 0.5'-65'
75					Schist, pentration rate (<1ft/min)	Schist		Open Borehole 70'-120'

LEGEND

Proportion Descriptions:

Trace = <10% Some = <50%

Little = <25% And = 50%

Symbol Key:

Water Level

Sample Location

fbg = feet below grade

NA = not available

ppm = parts per million

in. = inches

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WELL LOG

ID NO. **MW-7**

Groundwater and Environmental Services, Inc.

PROJECT:	ExxonMobil Station # 2-6140	WATER DEPTH:	TOTAL DEPTH: 40'
ADDRESS:	9901 Georgetown Pike, Great Falls, VA		CASING EL.: 327.96
JOB NO.	0402403	BOREHOLE DIA.: 4.25"	WELL DIA.: 2"

Logged By:	Tim Davis	Drilling Method:	Hollow Stem Auger
Dates Drilled:	10/16/2009	Sampling Method:	Split Spoon
Drilling Company:	B.L. Meyers	Soil Class. System:	NA
Well Permit #:		Field Screening:	MiniRae 2000, Model PGM 7600

Depth (feet)	Sample Interval (feet)	Field Screen: Total Organic Volatiles (ppm) 0 – 10	Blow Counts	Recovery (inches)	Sample Lithology	Stratigraphy	Comments	Completion Details
0					SILT, trace sand, none plastic, tan-red, dry, vertical clay inclutions, black.	Silt	Air-knifed 0-8 fbg for utility clearance	8" Flush-Mount Manway with concrete 0'-0.5'
5								Grout 0.5'-11'
	8-10	0.0	5-8-9-12	12"				
10	10-12	0.0	5-9-11-12	24"				
	12-14	0.0	8-9-13-7	6"				Bentonite Plug 11'-13'
	14-16	0.0	4-6-15-17	12"	SILT, little sand, some layers have foliation planes, dry			
15	16-18	0.0		6"				#2 Sandpack 13'-40'
	18-20	0.0	5-9-17-18	12"				
20	20-22	0.0	4-11-16-21	20"	SILT, trace sand, vertical inclutions, no foliations, mica, tan-red			
	22-24	0.0	10-13-12-27	6"				
	24-26	0.0	13-15-35-43	20"				
25	26-28	0.0	18-21-22-17	12"				
	28-30	0.0	8-9-8-17	12"	SILT, some sand, coarse quartz pebbles, sub angular, 0.1"-0.25", in layers, silt mica, no foliation,		sample collected from 28-30 fbg	
30		0.0						
	30-32	0.0	10-15-26-37	24"			Static water level at 31.5 fbg	
	32-34	0.0	28-23-25-34	20"				
35	34-36	0.0	14-23-32-39	20"	Saprolite, mica silt, folition planes present, some sand, in layers, tan-grey	Saprolite		
40								3" PVC Cap35'

LEGEND

Proportion Descriptions:

Trace = <10% Some = <50%

Little = <25% And = 50%

Symbol Key:

Water Level

Sample Location

fbg = feet below grade

NA = not available

ppm = parts per million

in. = inches

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WELL LOG

ID NO. **MW-8**

Groundwater and Environmental Services, Inc.

PROJECT:	ExxonMobil Station # 2-6140	WATER DEPTH: 36.84'	TOTAL DEPTH: 45'
ADDRESS:	9901 Georgetown Pike, Great Falls, VA		CASING EL.: 330.54
JOB NO.	0402403	BOREHOLE DIA.: 4.25"	WELL DIA.: 2"

Logged By:	Jeremy Joiner	Drilling Method:	Hollow Stem Auger
Dates Drilled:	10/08/2009	Sampling Method:	Split Spoon
Drilling Company:	B.L. Meyers	Soil Class. System:	NA
Well Permit #:		Field Screening:	MiniRae 2000, Model PGM 7600

Depth (feet)	Sample Interval (feet)	Field Screen: Total Organic Volatiles (ppm)	Blow Counts	Recovery (inches)	Sample Lithology	Stratigraphy	Comments	Completion Details
0					Fill materials from Air-Knifing operations	Fill	Air-knifed 0-8' for utility clearance	8" Flush-Mount Manway with concrete 0'-0.5'
5								
10	8'-10'	0.0	6-16-21-25	19"	Brown clayey silt with mica plating, stiff, few gravels	Clay and Silt		Grout 0.5'-20'
	10'-12'	0.0	6-20-21-20	13"				
	12'-14'	0.0	15-11-20-19	11"	Reddish-brown sandy silt, little clay, trace gravel	Sandy Silt		
15	14'-16'	0.0	13-14-25-32	19"	Light brown clayey silt	Clay and Silt		
	16'-18'	0.0	32-21-32-31	14"				
	18-'20'	0.0	6-8-10-13	14"	Brown silty sand, trace clay and gravels	Silty Sand		
20	20'-22'	0.0	8-11-12-6	16"				Bentonite Plug 20'-23'
	22'-24'	0.0	8-12-14-18	14"	Brown sandy silt, little clay, trace gravels and mica	Sandy Silt		
25	24'-26'	0.0	11-14-20-21	19"				
	26'-28'	0.0	17-15-21-20	23"	Grayish-brown sandy silt, more structured, mica plating	Sandy Silt		
	28'-30'	0.0	6-12-17-26	22"				
30	30'-32'	0.0	11-11-9-10	17"				#2 Sandpack 23'-45'
	32'-34'	0.0	14-18-26-31	20"	Gray clayey sand, trace mica, structured	Clayey Sand		
35	34'-36'	0.0	11-17-20-19	19"				
	36'-38'	90.0	30-17-20-24	21"	Gray silty sand, little clay, less structured, very moist sample, wet spoon	Silty Sand	Static water depth 36.84' Sampled collected 36-38'	
	38'-40'	70	17-12-19-50/3"	17"	Gray saprolite with mica plating	Saprolite		
40								
45								3" PVC Cap 45'

LEGEND

Proportion Descriptions:

Trace = <10% Some = <50%

Little = <25% And = 50%

Symbol Key:

Water Level

Sample Location

fbg = feet below grade

NA = not available

ppm = parts per million

in. = inches

Groundwater & Environmental Services, Inc.
2142 Priest Bridge Court, Crofton, Maryland 800.220.3600 Fax 410.721.3733

WELL LOG

ID NO. **MW-9**

Groundwater and Environmental Services, Inc.

PROJECT: ExxonMobil Station # 2-6140	WATER DEPTH: 35.62'	TOTAL DEPTH: 45'	
ADDRESS: 9901 Georgetown Pike, Great Falls, VA		CASING EL.: 333.46	
JOB NO. 0402403	BOREHOLE DIA.: 4.25"	WELL DIA.: 2"	

Logged By:	Jeremy Joiner	Drilling Method:	Hollow Stem Auger
Dates Drilled:	10/09/2009	Sampling Method:	Split Spoon
Drilling Company:	B.L. Meyers	Soil Class. System:	NA
Well Permit #:		Field Screening:	MiniRae 2000, Model PGM 7600

Depth (feet)	Sample Interval (feet)	Field Screen: Total Organic Volatiles (ppm) 0 – 10	Blow Counts	Recovery (inches)	Sample Lithology	Stratigraphy	Comments	Completion Details
0–8'					Fill materials from Air-Knifing operations.	Fill	Air-knifed 0-8' for utility clearance	8" Flush-Mount Manway with concrete 0'-0.5'
8'-10'	36		3-10-14-22	13"	Reddish-brown clayey silt, very dry.	Clay and Silt		
10'-12'	24		11-14-17-16	17"				Sand 0.5'-20'
12'-14'	68		11-14-14-18	13"			Sampled collected 12'-14'	
14'-16'	19		6-10-10-12	17"				
16'-18'	6		9-10-13-15	10"	Reddish-brown sandy silt, trace gravel and mica.	Sandy Silt		
18'-20'	21		8-12-14-14	19"	Brown clayey silt, little sand, trace gravels.	Clay and Silt		
20'-22'	19		4-5-10-13	15"				Bentonite Plug 20'-23'
22'-24'	18		8-7-12-15	14"				
24'-26'	35		9-11-23-18	16"				
26'-28'	40		14-18-12-17	17"				
28'-30'	38		8-13-18-18	17'				
30'-32'	31		7-9-12-10	20"	Brownish-gray clayey silt, mica plating, trace sand, moist.	Clay and Silt		#2 Sandpack 23'-45'
32'-34'	46		16-15-13-18	21"				
34'-36'	33		6-12-14-13	21"			Static water depth 35.62'	
36'-38'	30		13-10-15-21	23"				
45								3" PVC Cap 45'

LEGEND

Proportion Descriptions:
Trace = <10% Some = <50%
Little = <25% And = 50%

Symbol Key:
Water Level
Sample Location

fbg = feet below grade
NA = not available
ppm = parts per million
in. = inches

Groundwater & Environmental Services, Inc.
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WELL LOG

ID NO. **MW-10**

Groundwater and Environmental Services, Inc.

PROJECT:	ExxonMobil Station # 2-6140	WATER DEPTH: 28.96'	TOTAL DEPTH: 40'
ADDRESS:	9901 Georgetown Pike, Great Falls, VA		CASING EL.: 324.17
JOB NO.	0402403	BOREHOLE DIA.: 4.25"	WELL DIA.: 2"

Logged By:	Jeremy Joiner	Drilling Method:	Hollow Stem Auger
Dates Drilled:	10/12/2009	Sampling Method:	Split Spoon
Drilling Company:	B.L. Meyers	Soil Class. System:	NA
Well Permit #:		Field Screening:	MiniRae 2000, Model PGM 7600

Depth (feet)	Sample Interval (feet)	Field Screen: Total Organic Volatiles (ppm)	Blow Counts	Recovery (inches)	Sample Lithology	Stratigraphy	Comments	Completion Details
	4'-6'	NA	6-5-5-6	0"	Fill materials from Air-Knifing operations.	Fill	Air-knifed 0-5' for utility clearance	8" Flush-Mount Manway with concrete 0'-0.5'
	6'-8'	NA	7-6-7-6	0"	Reddish-brown clayey silt.	Clay and Silt		Bentonite Plug 0.5'-8'
	8'-10'	25	2-3-4-4	4"	Brown clayey silt, few gravels.	Clay and Silt	Sampled collected 8'-10'	
	10'-12'	13	1-2-4-4	0"				
	12'-14'	8	6-6-8-12	20"				
	14'-16'	11	6-6-8-10	7"				
	16'-18'	2	17-29-23-16	13"	Reddish-brown sandy silt, little clay, few gravels.	Sandy Silt		
	18'-20'	4	4-5-7-11	23"	Reddish-brown clayey silt, little mica.	Clay and Silt		
	20'-22'	4	2-4-7-10	23"				
	22'-24'	2	11-11-12-15	21"				
	24'-26'	3	4-6-9-14	23"				
	26'-28'	9	5-6-11-18	16"	Little sand and moist.			#2 Sandpack 8'-40'
	28'-30'	8	6-6-9-12	20"				
	30'-32'	7	6-7-8-9	23"	Brown sandy silt, little clay, few gravels	Sandy Silt	Static water depth 28.96'	
	32'-34'	5	7-11-11-14	23"	Brown saprolite, moist. Wet spoon.	Saprolite		
								3" PVC Cap 40'

LEGEND

Proportion Descriptions:

Trace = <10% Some = <50%

Little = <25% And = 50%

Symbol Key:

Water Level

Sample Location

fbg = feet below grade

NA = not available

ppm = parts per million

in. = inches

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2142 Priest Bridge Court, Crofton, Maryland 800.220.3606 Fax 410.721.3733

WELL LOG

ID NO. **MW-11**

Groundwater and Environmental Services, Inc.

PROJECT: ExxonMobil Station # 2-6140	WATER DEPTH: 32.16'	TOTAL DEPTH: 40'	
ADDRESS: 9901 Georgetown Pike, Great Falls, VA		CASING EL.: 329.64	
JOB NO. 0402403	BOREHOLE DIA.: 4.25"	WELL DIA.: 2"	

Logged By:	Jeremy Joiner	Drilling Method:	Hollow Stem Auger
Dates Drilled:	10/14/2009	Sampling Method:	Split Spoon
Drilling Company:	B.L. Meyers	Soil Class. System:	NA
Well Permit #:		Field Screening:	MiniRae 2000, Model PGM 7600

Depth (feet)	Sample Interval (feet)	Field Screen: Total Organic Volatiles (ppm) 0 — 10	Blow Counts	Recovery (inches)	Sample Lithology	Stratigraphy	Comments	Completion Details
0					Fill materials from Air-knifing operations.	Fill	Air-knifed 0-8' for utility clearance	8" Flush-Mount Manway with concrete 0'-0.5'
5								Grout 0.5'-6'
								Bentonite Plug 6'-8'
	8'-10'	49	5-6-7-17	21"	Reddish-brown clayey silt, few gravels.	Clay and Silt		
10	10'-12'	51	20-18-27-24	15"				
	12'-14'	47	14-18-20-31	15"				
	14'-16'	49	16-25-30-50/5	18"	-Mottled Black-brown			
15	16'-18'	116	38-35-35-38	14"	-trace sand			
	18'-20'	150	24-37-40-49	10"	-little sand, trace mica			
	20'-22'	300	15-21-28-25	11"				
20	22'-24'	474	11-19-29-31	6"	-grayish-brown			
	24'-26'	1748	24-27-38-38	10"	Reddish-brown sandy silt, little gravels, trace clay.	Sandy Silt		#2 Sandpack 8'-40'
25	26'-28'	1700	38-30-30-33	18"				
	28'-30'	1800	16-17-20-21	23"				
	30'-32'	4200	9-12-15-17	23"	- Grey-brown, moist			
30	32'-34'	5380	12-15-21-31	23"	- very moist		Static water depth 32.16' Sampled collected 32'-34'	
	34'-36'	1770	10-11-14-19	20"				
35	36'-38'	501	13-25-32-32	20"				
	38'-40'	480	9-7-22-27	18"				
40								3" PVC Cap 40'

LEGEND

Proportion Descriptions:
Trace = <10% Some = <50%
Little = <25% And = 50%

Symbol Key:
Water Level
Sample Location

fbg = feet below grade
NA = not available
ppm = parts per million
in. = inches

Groundwater & Environmental Services, Inc.
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VAPOR POINT LOG ID NO. VP-1

Groundwater and Environmental Services, Inc.

PROJECT: ExxonMobil Station # 2-6140	WATER DEPTH: NA	TOTAL DEPTH: 8'
ADDRESS: 9901 Georgetown Pike, Great Falls, VA		CASING EL.: 331.62
JOB NO. 0402403	BOREHOLE DIA.: 4"	WELL DIA.: 0.25"

Logged By:	Tim Davis	Drilling Method:	Air-Knifing
Dates Drilled:	10/06/09	Sampling Method:	NA
Drilling Company:	B.L. Myers	Soil Class. System:	NA
Well Permit #:	NA	Field Screening:	NA

Depth (feet)		Comments	Completion Details
0	0.25" Teflon Tubing 0'-7.25'	8" Flush-Mount Manway with concrete 0'-0.5'	
		Grout 0.5'-5'	
5		Bentonite Plug 5'-6.5'	
	0.25 Stainless Steel Screen 7.25'-7.75'	#2 Sandpack 6.5'-8'	

LEGEND

Proportion Descriptions:
Trace = <10% Some = <50%
Little = <25% And = 50%

Symbol Key:
Water Level
Sample Location

fbg = feet below grade
NA = not available
ppm = parts per million
in. = inches

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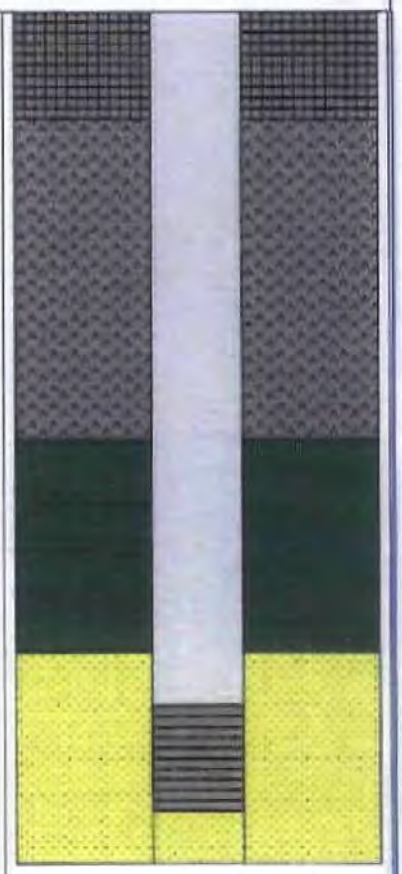
VAPOR POINT LOG ID NO. VP-2S

Groundwater and Environmental Services, Inc.

PROJECT: ExxonMobil Station # 2-6140	WATER DEPTH: NA	TOTAL DEPTH: 4'
ADDRESS: 9901 Georgetown Pike, Great Falls, VA		CASING EL.: 331.31
JOB NO. 0402403	BOREHOLE DIA.: 4"	WELL DIA.: 0.25"

Logged By:	Tim Davis	Drilling Method:	Air-Knifing
Dates Drilled:	10/06/09	Sampling Method:	NA
Drilling Company:	B.L. Myers	Soil Class. System:	NA
Well Permit #:	NA	Field Screening:	NA

Depth (feet)		Comments	Completion Details
0		8" Flush-Mount Manway with concrete 0'-0.5'	
		Grout 0.5'-2'	
	0.25" Teflon Tubing 0'-3.25'		
		Bentonite Plug 2'-3'	
		#2 Sandpack 3'-4'	
	0.25 Stainless Steel Screen 3.25'-3.75'		
5			



LEGEND

Proportion Descriptions:

Trace = <10% Some = <50%

Little = <25% And = 50%

Symbol Key:

Water Level

Sample Location

fbg = feet below grade

NA = not available

ppm = parts per million

in. = inches

Groundwater & Environmental Services, Inc.
2142 Priest Bridge Court, Crofton, Maryland 800.220.3606 Fax 410.721.3733

VAPOR POINT LOG ID NO. VP-2D

Groundwater and Environmental Services, Inc.

PROJECT:	ExxonMobil Station # 2-6140	WATER DEPTH:	NA	TOTAL DEPTH:	8'
ADDRESS:	9901 Georgetown Pike, Great Falls, VA			CASING EL.:	331.31
JOB NO.	0402403	BOREHOLE DIA.:	4"	WELL DIA.:	0.25"

Logged By:	Tim Davis	Drilling Method:	Air-Knifing
Dates Drilled:	10/02/09	Sampling Method:	NA
Drilling Company:	B.L. Myers	Soil Class. System:	NA
Well Permit #:	NA	Field Screening:	NA

Depth (feet)		Comments	Completion Details
0	0.25" Teflon Tubing 0'-7.25'		
		Grout 4'-5.5'	
5		Bentonite Plug 5.5'-6.5'	
	0.25 Stainless Steel Screen 7.25'-7.75'	#2 Sandpack 6.5'-8'	

LEGEND

Proportion Descriptions:
Trace = <10% Some = <50%
Little = <25% And = 50%

Symbol Key:
Water Level
Sample Location

fbg = feet below grade
NA = not available
ppm = parts per million
in. = inches

Well ID: VP-2D

Groundwater & Environmental Services, Inc.
2142 Priest Bridge Court, Crofton, Maryland 800.220.3606 Fax 410.721.3733

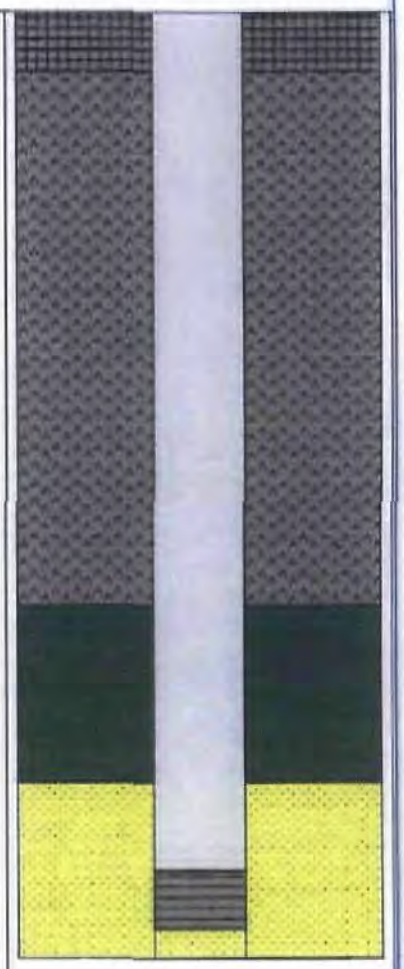
VAPOR POINT LOG ID NO. VP-3

Groundwater and Environmental Services, Inc.

PROJECT: ExxonMobil Station # 2-6140	WATER DEPTH: NA	TOTAL DEPTH: 8'
ADDRESS: 9901 Georgetown Pike, Great Falls, VA		CASING EL.: 327.23
JOB NO. 0402403	BOREHOLE DIA.: 4"	WELL DIA.: 0.25"

Logged By:	Tim Davis	Drilling Method:	Air-Knifing
Dates Drilled:	10/02/09	Sampling Method:	NA
Drilling Company:	B.L. Myers	Soil Class. System:	NA
Well Permit #:	NA	Field Screening:	NA

Depth (feet)		Comments	Completion Details
0	0.25" Teflon Tubing 0'-7.25'	6" Flush-Mount Manway with concrete 0'-0.5'	
		Grout 0.5'-5'	
5	0.25 Stainless Steel Screen 7.25'-7.75'	Bentonite Plug 5'-6.5'	
		#2 Sandpack 6.5'-8'	



LEGEND

Proportion Descriptions:
Trace = <10% Some = <50%
Little = <25% And = 50%

Symbol Key:
Water Level
Sample Location

fbg = feet below grade
NA = not available
ppm = parts per million
in. = inches

Groundwater & Environmental Services, Inc.
2142 Priest Bridge Court, Crofton, Maryland 800.220.3606 Fax 410.721.3733

APPENDIX J

Soil Laboratory Analytical Reports for Recent Samples

Appendix J

New Jersey ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

09/25/09

Technical Report for

ExxonMobil Corporation

GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA

Accutest Job Number: JA27895

Sampling Date: 09/11/09

Report to:

Groundwater & Environmental Services
2142 Priest Bridge Court Suite #1
Crofteon, MD 21114
ataylorsoncollins@gesonline.com

ATTN: Andrea Taylorson-Collins

Total number of pages in report: 9

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
VP Ops, Laboratory Director

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

ACCUTEST LABORATORIES 50 YEARS 1956-2006

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Section 3: Misc. Forms 7
3.1: Chain of Custody 8

Sample Summary

ExxonMobil Corporation

Job No: JA27895

GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JA27895-1	09/11/09	14:00 TD	09/12/09	SO	Soil	MW-6(22-24)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6(22-24)		
Lab Sample ID:	JA27895-1	**Date Sampled:**	09/11/09
Matrix:	SO - Soil	**Date Received:**	09/12/09
Method:	SW846 8260B	**Percent Solids:**	76.7
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y92029.D	1	09/21/09	YXC	n/a	n/a	VY3865
Run #2							

	Initial Weight
Run #1	4.9 g
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	3.0	ug/kg	
71-43-2	Benzene	ND	1.3	0.45	ug/kg	
108-86-1	Bromobenzene	ND	6.7	0.49	ug/kg	
74-97-5	Bromochloromethane	ND	6.7	0.29	ug/kg	
75-27-4	Bromodichloromethane	ND	6.7	0.34	ug/kg	
75-25-2	Bromoform	ND	6.7	0.20	ug/kg	
74-83-9	Bromomethane	ND	6.7	0.54	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	2.6	ug/kg	
104-51-8	n-Butylbenzene	ND	6.7	0.51	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.7	0.65	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.7	0.63	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.7	0.74	ug/kg	
108-90-7	Chlorobenzene	ND	6.7	0.45	ug/kg	
75-00-3	Chloroethane	ND	6.7	1.5	ug/kg	
67-66-3	Chloroform	ND	6.7	0.42	ug/kg	
74-87-3	Chloromethane	ND	6.7	0.22	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.7	0.38	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.7	0.32	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	0.72	ug/kg	
124-48-1	Dibromochloromethane	ND	6.7	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.18	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.7	0.36	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.7	0.37	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.7	0.45	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.7	1.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.7	0.18	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.46	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.7	0.88	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.7	0.32	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.7	0.60	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.7	0.17	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.7	0.14	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6(22-24)		
Lab Sample ID:	JA27895-1	**Date Sampled:**	09/11/09
Matrix:	SO - Soil	**Date Received:**	09/12/09
Method:	SW846 8260B	**Percent Solids:**	76.7
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	6.7	0.76	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.7	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.7	0.18	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.7	0.13	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.49	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.7	0.56	ug/kg	
98-82-8	Isopropylbenzene	ND	6.7	0.69	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.7	0.57	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.38	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.7	1.1	ug/kg	
74-95-3	Methylene bromide	ND	6.7	0.23	ug/kg	
75-09-2	Methylene chloride	ND	6.7	0.30	ug/kg	
91-20-3	Naphthalene	ND	6.7	0.98	ug/kg	
103-65-1	n-Propylbenzene	ND	6.7	0.34	ug/kg	
100-42-5	Styrene	ND	6.7	0.14	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.7	0.14	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.7	0.39	ug/kg	
127-18-4	Tetrachloroethene	ND	6.7	0.19	ug/kg	
108-88-3	Toluene	ND	1.3	0.39	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.7	2.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.7	0.46	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.7	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.7	0.25	ug/kg	
79-01-6	Trichloroethene	ND	6.7	0.70	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.7	0.30	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.7	0.42	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.7	0.57	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.7	0.48	ug/kg	
75-01-4	Vinyl chloride	ND	6.7	0.24	ug/kg	
	m,p-Xylene	ND	2.7	0.62	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.62	ug/kg	
1330-20-7	Xylene (total)	ND	2.7	0.62	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		67-127%
17060-07-0	1,2-Dichloroethane-D4	91%		65-132%
2037-26-5	Toluene-D8	99%		74-129%
460-00-4	4-Bromofluorobenzene	87%		62-138%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST. Laboratories

CHAIN OF CUSTODY

2235 Route 130 Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: JA 27895

Client Information | **Facility Information** | **Analytical Information**

EXXONMOBIL CORPORATION - Regional Laboratory Program (MD, DE, DC)

Consultants Company Name: GES, Inc.
Address: 2142 Priest Bridge Ct, Ste 1
City, State, Zip: Crofton MD 21114
Project Contact: Andrea Taylorson-Collins
Sampler's Name: Tim Davis
Phone #: 800-320-3606 Ext. Fax #:
AFE #:

Project Name: XOM - Great Falls
Street: 9901 Georgetown Pike
City, State: Great Falls, VA
ExxonMobil Contact: Mike Keel
ExxonMobil Contact's Phone #:
Location ID#: 2-6140 WBS#:
PO#: PO pending Line#:

Analytical Information: BTEX ☐ MTBE ☐ Naphthalene ☐ | 8260 BTEX ☐ 624 BTEX ☐ 624 MTBE ☐ | TPH-GRO 8015B | TPH-DRO 8015B | Lead 6010 ☐ 200.8 ☐ Total ☐ Dissolved ☐ | Air - VTCSSTEX TPHF ☐ | TO14 BTEX ☐ FULL ☐ | ExxonMobil Gross Roots ☐ | Soil Disposal Criteria ☐ Oil ☐ | Full VOCs w/ Oxys + TIC 8260 | 8260B Full VOCs + MTBE | Full VOCs w/ Oxys + TIC 8260

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCL	NaOH	HNO3	H2SO4	None	NaHSO4	MEOH	Encore	Full VOCs w/ Oxys + TIC 8260	8260B Full VOCs + MTBE	Full VOCs w/ Oxys + TIC 8260
					~~DW~~	~~3~~	~~X~~										
-1	MW6(22-24)	9/11/09	~~1605~~	TD	Soil	3					X					X	X
-2	TB-TD-05		1400														X

No Trip Blank Received

Turnaround Time (Business days):
- ☒ Std. 10 Business Days
- ☐ 8 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY

Approved By/Date:

Emergency T/A is for FAX or Labtink Data

Data Deliverable Information:
- ☒ Commercial "A"
- ☐ Commercial "B"
- ☐ Full Deliverables
- ☐ Other
- ☐ FULL CLP
- ☐ State Forms
- ☐ Disk Deliverable Format

Commercial "A" = Results only

Comments / Remarks:
MW NAD's 7
9-16-09
~~Dri slurry voc vials frozen storage~~
~~Date: Time: Initials:~~

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
1 Tim Davis	1700 9/11/09	1 FED EX	2 FED EX	9-12-09 1030	2
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 6	Seal #	Preserved where applicable ☐	On Ice ☐ Temp. 2.4°C

JA27895: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA27895 **Client:** **Immediate Client Services Action Required:** No

Date / Time Received: 9/12/2009 **Delivery Method:** **Client Service Action Required at Login:** No

Project: **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or N		Y	or N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	or N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	Infared gun	
3. Cooler media:	Ice (bag)	

Quality Control Preservatio	Y	or N	N/A
1. Trip Blank present / cooler:	☑	☐	
2. Trip Blank listed on COC:	☑	☐	
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☐	☐	☑

Sample Integrity - Documentation	Y	or N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	or N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	or N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JA27895: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

10/22/09

Technical Report for

ExxonMobil Corporation

GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA

Accutest Job Number: JA30357

Sampling Dates: 10/06/09 - 10/12/09

Report to:

Groundwater & Environmental Services
2142 Priest Bridge Court Suite #1
Crofteon, MD 21114
ataylorsoncollins@gesonline.com

ATTN: Andrea Taylorson-Collins

Total number of pages in report: **15**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
VP Ops, Laboratory Director

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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3.1: Chain of Custody 14

Sample Summary

ExxonMobil Corporation

Job No: JA30357

GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JA30357-1	10/06/09	13:15	TD	10/14/09	SO	Soil	MW-7 28-30FBG
JA30357-2	10/08/09	11:20	TD	10/14/09	SO	Soil	MW-8 36-38FBG
JA30357-3	10/09/09	08:50	TD	10/14/09	SO	Soil	MW-9 12-14FBG
JA30357-4	10/12/09	09:30	TD	10/14/09	SO	Soil	MW-10 8-10FBG

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-7 28-30FBG		
Lab Sample ID:	JA30357-1	**Date Sampled:**	10/06/09
Matrix:	SO - Soil	**Date Received:**	10/14/09
Method:	SW846 8260B	**Percent Solids:**	82.5
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G124308.D	1	10/17/09	JLI	n/a	n/a	VG5915
Run #2							

	Initial Weight
Run #1	5.2 g
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	58	17	ug/kg	
107-13-1	Acrylonitrile	ND	58	0.96	ug/kg	
71-43-2	Benzene	ND	1.2	0.40	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	0.30	ug/kg	
75-25-2	Bromoform	ND	5.8	0.18	ug/kg	
74-83-9	Bromomethane	ND	5.8	0.47	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	0.65	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	0.40	ug/kg	
75-00-3	Chloroethane	ND	5.8	1.3	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	29	0.48	ug/kg	
67-66-3	Chloroform	ND	5.8	0.37	ug/kg	
74-87-3	Chloromethane	ND	5.8	0.19	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.8	0.25	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.8	0.31	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.8	0.32	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.8	0.39	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.8	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.40	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.8	0.77	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.8	0.28	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.8	0.52	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	0.15	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	0.11	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.43	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	3.1	1.2	0.33	ug/kg	
75-09-2	Methylene chloride	ND	5.8	0.26	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	29	17	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	5.8	0.50	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	5.8	0.82	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7 28-30FBG		
Lab Sample ID:	JA30357-1	**Date Sampled:**	10/06/09
Matrix:	SO - Soil	**Date Received:**	10/14/09
Method:	SW846 8260B	**Percent Solids:**	82.5
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	0.34	ug/kg	
127-18-4	Tetrachloroethene	ND	5.8	0.17	ug/kg	
108-88-3	Toluene	ND	1.2	0.34	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	0.15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	0.22	ug/kg	
79-01-6	Trichloroethene	ND	5.8	0.61	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.8	0.27	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	0.21	ug/kg	
1330-20-7	Xylene (total)	ND	2.3	0.55	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		67-127%
17060-07-0	1,2-Dichloroethane-D4	95%		65-132%
2037-26-5	Toluene-D8	113%		74-129%
460-00-4	4-Bromofluorobenzene	102%		62-138%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-8 36-38FBG		
Lab Sample ID:	JA30357-2	**Date Sampled:**	10/08/09
Matrix:	SO - Soil	**Date Received:**	10/14/09
Method:	SW846 8260B	**Percent Solids:**	81.4
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G124399.D	1	10/21/09	SJM	n/a	n/a	VG5919
Run #2	D160878.D	1	10/21/09	TDN	n/a	n/a	VD6471

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.3 g		
Run #2	10.8 g	10.0 ml	100 ul

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	71	20	ug/kg	
107-13-1	Acrylonitrile	ND	71	1.2	ug/kg	
71-43-2	Benzene	ND	1.4	0.49	ug/kg	
75-27-4	Bromodichloromethane	ND	7.1	0.37	ug/kg	
75-25-2	Bromoform	ND	7.1	0.22	ug/kg	
74-83-9	Bromomethane	ND	7.1	0.58	ug/kg	
56-23-5	Carbon tetrachloride	ND	7.1	0.79	ug/kg	
108-90-7	Chlorobenzene	ND	7.1	0.48	ug/kg	
75-00-3	Chloroethane	ND	7.1	1.6	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	36	0.59	ug/kg	
67-66-3	Chloroform	ND	7.1	0.45	ug/kg	
74-87-3	Chloromethane	ND	7.1	0.24	ug/kg	
108-20-3	Di-Isopropyl ether	8.9	7.1	0.30	ug/kg	
124-48-1	Dibromochloromethane	ND	7.1	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	7.1	0.39	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	7.1	0.39	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	7.1	0.48	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.1	1.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.1	0.20	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	0.49	ug/kg	
75-35-4	1,1-Dichloroethene	ND	7.1	0.95	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	7.1	0.34	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	7.1	0.64	ug/kg	
78-87-5	1,2-Dichloropropane	ND	7.1	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	7.1	0.19	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	7.1	0.14	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.53	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	3000 [a]	68	19	ug/kg	
75-09-2	Methylene chloride	ND	7.1	0.32	ug/kg	
75-65-0	Tert Butyl Alcohol	6240 [a]	1700	980	ug/kg	
994-05-8	tert-Amyl Methyl Ether	13.4	7.1	0.62	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	7.1	1.0	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8 36-38FBG		
Lab Sample ID:	JA30357-2	**Date Sampled:**	10/08/09
Matrix:	SO - Soil	**Date Received:**	10/14/09
Method:	SW846 8260B	**Percent Solids:**	81.4
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.1	0.42	ug/kg	
127-18-4	Tetrachloroethene	ND	7.1	0.21	ug/kg	
108-88-3	Toluene	ND	1.4	0.42	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	7.1	0.18	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	7.1	0.26	ug/kg	
79-01-6	Trichloroethene	ND	7.1	0.75	ug/kg	
75-69-4	Trichlorofluoromethane	ND	7.1	0.33	ug/kg	
75-01-4	Vinyl chloride	ND	7.1	0.25	ug/kg	
1330-20-7	Xylene (total)	ND	2.9	0.67	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	90%	67-127%
17060-07-0	1,2-Dichloroethane-D4	92%	92%	65-132%
2037-26-5	Toluene-D8	100%	98%	74-129%
460-00-4	4-Bromofluorobenzene	93%	92%	62-138%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	2.94	90	ug/kg	JNB
	Total TIC, Volatile		0	ug/kg	

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-9 12-14FBG		
Lab Sample ID:	JA30357-3	**Date Sampled:**	10/09/09
Matrix:	SO - Soil	**Date Received:**	10/14/09
Method:	SW846 8260B	**Percent Solids:**	83.3
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	D160879.D	1	10/21/09	TDN	n/a	n/a	VD6471
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.9 g	10.0 ml	100 ul
Run #2			

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	3300	930	ug/kg	
107-13-1	Acrylonitrile	ND	3300	54	ug/kg	
71-43-2	Benzene	ND	65	22	ug/kg	
75-27-4	Bromodichloromethane	ND	330	17	ug/kg	
75-25-2	Bromoform	ND	330	9.8	ug/kg	
74-83-9	Bromomethane	ND	330	26	ug/kg	
56-23-5	Carbon tetrachloride	ND	330	36	ug/kg	
108-90-7	Chlorobenzene	ND	330	22	ug/kg	
75-00-3	Chloroethane	ND	330	74	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	1600	27	ug/kg	
67-66-3	Chloroform	ND	330	21	ug/kg	
74-87-3	Chloromethane	ND	330	11	ug/kg	
108-20-3	Di-Isopropyl ether	ND	330	14	ug/kg	
124-48-1	Dibromochloromethane	ND	330	7.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	330	18	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	330	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	330	22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	330	62	ug/kg	
75-34-3	1,1-Dichloroethane	ND	330	9.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	65	22	ug/kg	
75-35-4	1,1-Dichloroethene	ND	330	43	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	330	16	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	330	29	ug/kg	
78-87-5	1,2-Dichloropropane	ND	330	8.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	330	8.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	330	6.2	ug/kg	
100-41-4	Ethylbenzene	ND	65	24	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	65	18	ug/kg	
75-09-2	Methylene chloride	ND	330	15	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	1600	940	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	330	28	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	330	46	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-9 12-14FBG		
Lab Sample ID:	JA30357-3	**Date Sampled:**	10/09/09
Matrix:	SO - Soil	**Date Received:**	10/14/09
Method:	SW846 8260B	**Percent Solids:**	83.3
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	330	19	ug/kg	
127-18-4	Tetrachloroethene	ND	330	9.4	ug/kg	
108-88-3	Toluene	ND	65	19	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	330	8.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	330	12	ug/kg	
79-01-6	Trichloroethene	ND	330	34	ug/kg	
75-69-4	Trichlorofluoromethane	ND	330	15	ug/kg	
75-01-4	Vinyl chloride	ND	330	12	ug/kg	
1330-20-7	Xylene (total)	ND	130	31	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		67-127%
17060-07-0	1,2-Dichloroethane-D4	94%		65-132%
2037-26-5	Toluene-D8	97%		74-129%
460-00-4	4-Bromofluorobenzene	91%		62-138%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	16.99	1200	ug/kg	J
	cycloalkane/alkene	17.77	790	ug/kg	J
	alkane	18.17	1800	ug/kg	J
	C4 alkyl benzene	18.34	1300	ug/kg	J
	dihydro-dimethylindene + C5 alkylbenzene	18.73	900	ug/kg	J
	Naphthalene, tetrahydro-methyl	19.25	920	ug/kg	J
	alkane	19.31	1300	ug/kg	J
	Naphthalene, tetrahydro-methyl	19.81	1600	ug/kg	J
	Naphthalene, tetrahydro-methyl	20.22	1400	ug/kg	J
	alkane	20.42	2500	ug/kg	J
	Total TIC, Volatile		13710	ug/kg	J

(a) Dilution required due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-10 8-10FBG		
Lab Sample ID:	JA30357-4	**Date Sampled:**	10/12/09
Matrix:	SO - Soil	**Date Received:**	10/14/09
Method:	SW846 8260B	**Percent Solids:**	84.5
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G124309.D	1	10/17/09	JLI	n/a	n/a	VG5915
Run #2							

	Initial Weight
Run #1	4.8 g
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	62	18	ug/kg	
107-13-1	Acrylonitrile	ND	62	1.0	ug/kg	
71-43-2	Benzene	ND	1.2	0.42	ug/kg	
75-27-4	Bromodichloromethane	ND	6.2	0.32	ug/kg	
75-25-2	Bromoform	ND	6.2	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.2	0.50	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.2	0.68	ug/kg	
108-90-7	Chlorobenzene	ND	6.2	0.42	ug/kg	
75-00-3	Chloroethane	ND	6.2	1.4	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	31	0.51	ug/kg	
67-66-3	Chloroform	ND	6.2	0.39	ug/kg	
74-87-3	Chloromethane	ND	6.2	0.20	ug/kg	
108-20-3	Di-Isopropyl ether	ND	6.2	0.26	ug/kg	
124-48-1	Dibromochloromethane	ND	6.2	0.14	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.2	0.33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.2	0.34	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.2	0.42	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.2	1.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.2	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.43	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.2	0.82	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.2	0.29	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.2	0.55	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.2	0.16	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.2	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.2	0.12	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.46	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.35	ug/kg	
75-09-2	Methylene chloride	ND	6.2	0.27	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	31	18	ug/kg	
994-05-8	tert-Amyl Methyl Ether	ND	6.2	0.53	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	6.2	0.87	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-10 8-10FBG		
Lab Sample ID:	JA30357-4	**Date Sampled:**	10/12/09
Matrix:	SO - Soil	**Date Received:**	10/14/09
Method:	SW846 8260B	**Percent Solids:**	84.5
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.2	0.36	ug/kg	
127-18-4	Tetrachloroethene	ND	6.2	0.18	ug/kg	
108-88-3	Toluene	ND	1.2	0.36	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.2	0.16	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.2	0.23	ug/kg	
79-01-6	Trichloroethene	ND	6.2	0.65	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.2	0.28	ug/kg	
75-01-4	Vinyl chloride	ND	6.2	0.22	ug/kg	
1330-20-7	Xylene (total)	ND	2.5	0.58	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		67-127%
17060-07-0	1,2-Dichloroethane-D4	97%		65-132%
2037-26-5	Toluene-D8	113%		74-129%
460-00-4	4-Bromofluorobenzene	100%		62-138%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	2.97	64	ug/kg	JNB
	1H-indene-dihydro-methyl	23.48	7.1	ug/kg	J
	alkane	24.02	7.9	ug/kg	J
	1H-indene-dihydro-methyl	24.84	6.2	ug/kg	J
	Naphthalene tetrahydro	25.21	16	ug/kg	J
	Naphthalene, methyl-	27.28	7.2	ug/kg	J
	Total TIC, Volatile		44.4	ug/kg	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

2235 Route 130 Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: JA30357

Client Information | **Facility Information** | **Analytical Information**

EXXONMOBIL CORPORATION - Regional Laboratory Program (MD, DE, DC)

Consultant Company Name: GES
Project Name: Xom 2-6140
Address: 2142 Point Bridge Ct Suite I
Street: 9901 Georgetown Pike
City: Crofton State: MD Zip: 21114
City: Great Falls State: VA
Project Contact: Andrea Tajiscon-Collins
ExxonMobil Contact: Mike Greci
Sampler's Name: Tim Davis / Jeremy Jones
ExxonMobil Contact's Phone #:
Phone #: 540-200-2606 Ext. Fax #:
Location ID#: WBM
AFE #:
PO#: PO Pending Limit

Naphthalene ☐ MTBE ☐ 8260 BTEX ☐ 624 BTEX ☐ MTBE ☐ TPH-GRO 8015B

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	HCL	NaOH	HNO3	H2SO4	None	Na2S2O3	NaEDA	Encore	8260 BTEX	624 BTEX	TPH-GRO 8015B	TPH-DRO 8015B	Lead 6010 Total / 200.9 Dissolved	Air - VTO3BTEX TPHF	TO14: BTEX FULL	ExxonMobil Gasoline Range	Soil Disposal Criteria / Oil	8260B Full VOCs + MTBE	Full VOCs + 1,4-Dioxane + TICs
-1	MW-7 21-24 bbg	10/16/09	1345	TO	Soil	4					X													X	X
-2	MW-8 36-38 bbg	10/15/09	1120	JJ	Soil	3					X													X	X
-3	MW-9 12-14 bbg	10/16/09	0950	JJ	Soil	3					X													X	X
-4	MW-10 8-10 bbg	10/16/09	0930	JJ	Soil	3					X													X	X

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☐ 8 Day RUSH
- ☒ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY

Approved By/Date: 10-19-09

Emergency T/A is for FAX or LabLink Data

Data Deliverable Information

- ☒ Commercial "A"
- ☐ Commercial "B"
- ☐ Full Deliverables
- ☐ Other
- ☐ FULL CLP
- ☐ State Forms
- ☐ Disk Deliverable Format _____

Commercial "A" = Results only

Comments / Remarks

*4 NaB Soils BC 10-19-09

19A, WC5, 19L2, %50

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by: Sampler	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
1	10/16/09 1200	1 FED EX	2 FED EX	10-19-09 930	2
3		3	4		4
5		5	Seal #	Preserved where applicable ☐	On Ice ☑ Temp. 2.0°

JA30357: Chain of Custody
Page 1 of 2

ACCUTEST Laboratories

2235 Route 130 Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: JA30357 REVISED

Client Information | **Facility Information**

EXXONMOBIL CORPORATION - Regional Laboratory Program (MD, DE, DC)

Consultants Company Name: GES
Project Name: Xom 2-6140
Address: 2142 Priest Bridge Ct Suite I
Street: 9901 Georgetown Pike
City: Crofton State: MD Zip: 21114
City: Great Falls State: VA
Project Contact: Andrea Tapleson-Collins
ExxonMobil Contact: Mike Geci
Sampler's Name: Tim Davis / Jeremy Jaimet
ExxonMobil Contact's Phone #:
Phone #: 800-220-3606 Ext. Fax #:
Location ID#: MBM
AFE #:
PO#: PO Pending Line#

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Preservation: HCl	NaOH	HNO3	H2SO4	None	NaHSO4	NaOH/ZnAc	Encore	8260 BTEX ☐ MTBE ☐ Naphthalene ☐	624 BTEX ☐ MTBE ☐	TPH-GRO 8015B	TPH-ORO 8015B	Lead 6010 ☐ 200.8 ☐ Total ☐ Dissolved ☐	Air - VTO8BTEX TRHF ☐	TO14: BTEX ☐ FULL ☐	ExxonMobil Grass Roots ☐	Soil Disposal Criteria ☐ Oil ☐			FULL VOCs + MTBE, Oxy 5 + TICs @ 8260B				
	mw-7 27-38 bg	10/1/09	1345	TD	Soil	4					X															X				
	mw-8 36-38 bg	10/8/09	1120	JJ	Soil	3					X															X				
	mw-9 12-14 bg	10/9/09	0850	JJ	Soil	3					X															X				
	mw-10 8-10 bg	10/12/09	0930	JJ	Soil	3					X															X				

Turnaround Time (Business days)

- ☒ ~~Std. 10 Business Days~~
- ☐ 8 Day RUSH
- ☒ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY

Approved By/Date: 5 DAY TAT

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- ☑ Commercial "A"
- ☐ Commercial "B"
- ☐ Full Deliverables
- ☐ Other
- ☐ FULL CLP
- ☐ State Forms
- ☐ Disk Deliverable Format _____

Commercial "A" = Results only

Comments / Remarks

5 DAY TAT

Sample Custody must be documented below each time samples change possession, including courier delivery.

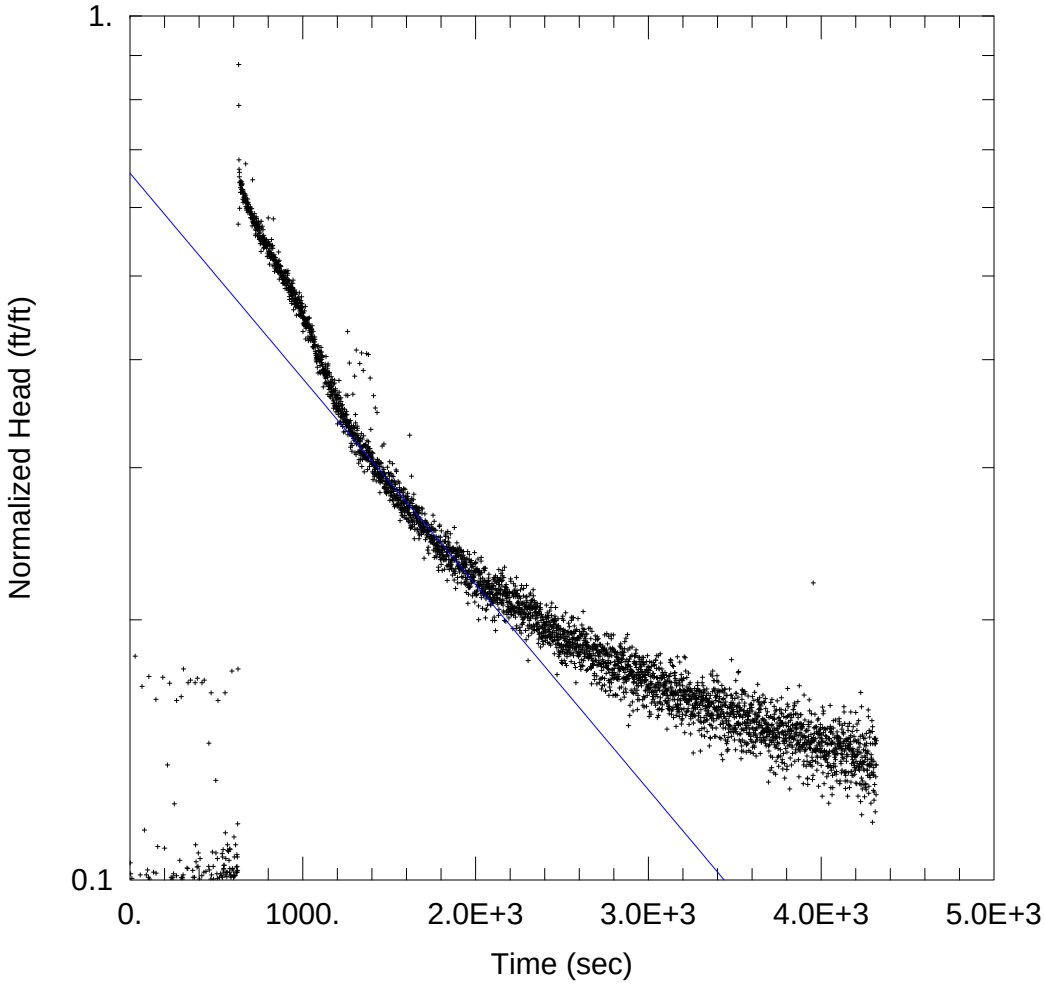
Relinquished by Sampler:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
1	10/12/09 1200	1	2		2
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Seal #	Preserved where applicable ☐	On Ice ☐ Temp.

3.1 3

JA30357: Chain of Custody
Page 2 of 2

APPENDIX K

Slug Tests-AqteSolv®



MW-5 FALLING HEAD

Data Set: C:\Documents and Settings\LGalli\Desktop\Great Falls slug tests\MW-5 Falling Head.aqt
Date: 10/28/09 Time: 10:29:08

PROJECT INFORMATION

Company: GES
Client: ExxonMobile
Project: 0402403
Location: Great Falls
Test Well: MW-6
Test Date: 10/14/2009

AQUIFER DATA

Saturated Thickness: 50. ft
Anisotropy Ratio (Kz/Kr): 1.

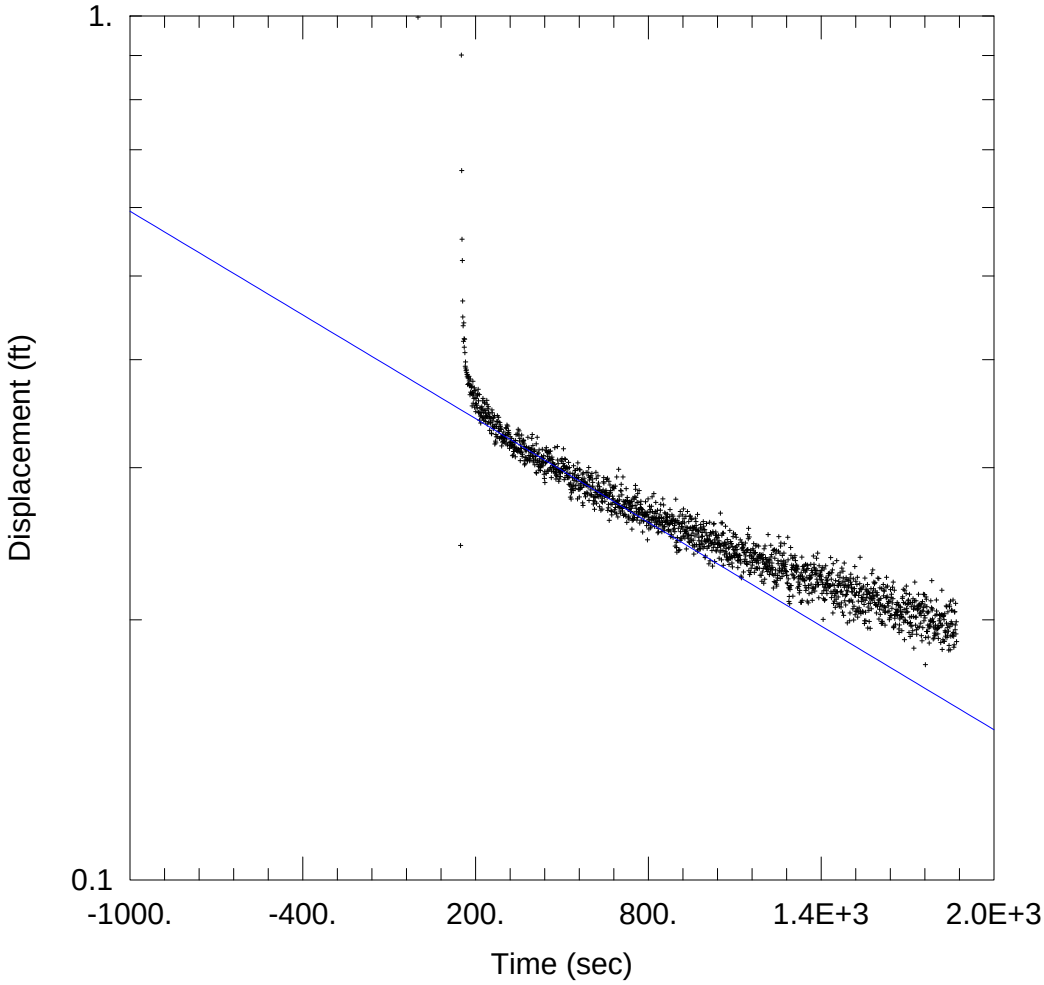
WELL DATA (MW-5)

Initial Displacement: 0.997 ft
Total Well Penetration Depth: 6.56 ft
Casing Radius: 0.083 ft
Static Water Column Height: 6.56 ft
Screen Length: 6.56 ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.07129 ft/day
y0 = 0.6557 ft



MW-5 RISING HEAD

Data Set: C:\Documents and Settings\LGalli\Desktop\Great Falls slug tests\MW-5 Riseing Head.aqt
Date: 10/28/09 Time: 10:32:53

PROJECT INFORMATION

Company: GES, Inc.
Client: ExxonMobile
Project: 0402403
Location: Great Falls, VA
Test Well: MW-5
Test Date: 10/14/09

AQUIFER DATA

Saturated Thickness: 50. ft Anisotropy Ratio (Kz/Kr): 1.

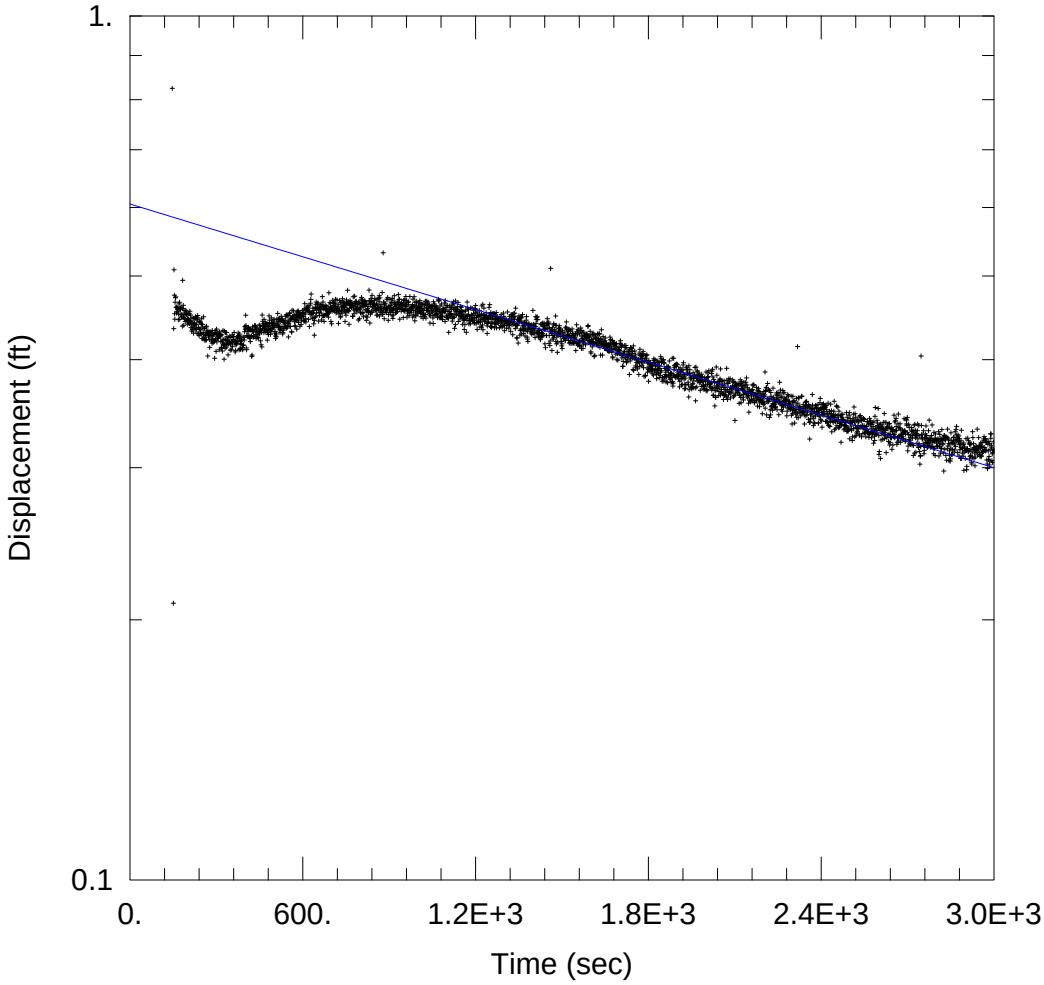
WELL DATA (MW-5)

Initial Displacement: 0.997 ft Static Water Column Height: 6.56 ft
Total Well Penetration Depth: 6.56 ft Screen Length: 6.56 ft
Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.05995 ft/day y0 = 0.3749 ft



MW-7 FALLING HEAD

Data Set: C:\Documents and Settings\LGalli\Desktop\Great Falls slug tests\MW-7.aqt
Date: 10/28/09 Time: 12:03:43

PROJECT INFORMATION

Company: GES, Inc.
Client: ExxonMobile
Project: 0402403
Location: Great Falls
Test Well: MW-6
Test Date: 10/14/2009

AQUIFER DATA

Saturated Thickness: 4. ft
Anisotropy Ratio (Kz/Kr): 1.

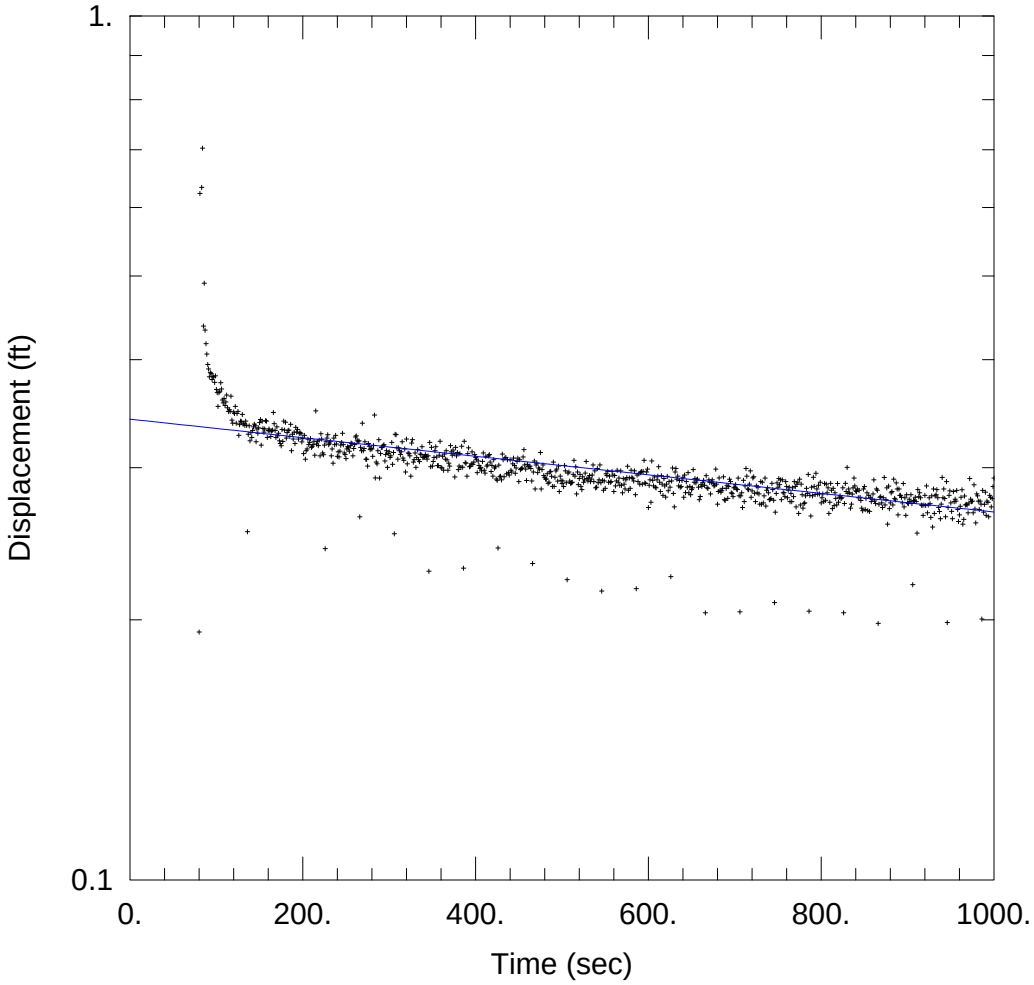
WELL DATA (MW-7)

Initial Displacement: 50. ft
Total Well Penetration Depth: 19. ft
Casing Radius: 0.167 ft
Static Water Column Height: 4. ft
Screen Length: 15. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.23 ft/day
y0 = 0.6057 ft



MW-7 RISING HEAD

Data Set: C:\Documents and Settings\LGalli\Desktop\Great Falls slug tests\MW-7 rising head.aqt
Date: 10/28/09 Time: 12:02:52

PROJECT INFORMATION

Company: GES, Inc.
Client: ExxonMobile
Project: 0402403
Location: Great Falls
Test Well: MW-6
Test Date: 10/14/2009

AQUIFER DATA

Saturated Thickness: 4. ft Anisotropy Ratio (Kz/Kr): 1.

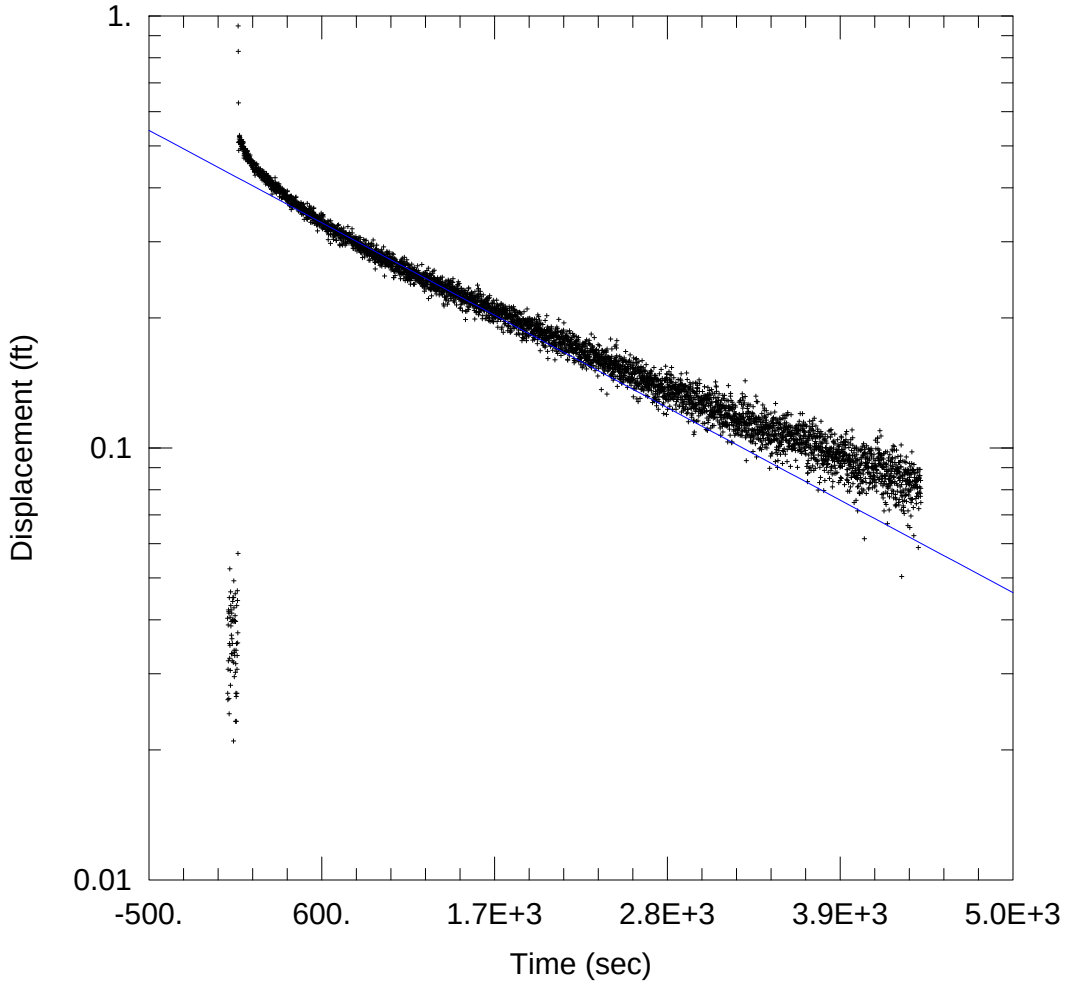
WELL DATA (MW-7)

Initial Displacement: 50. ft Static Water Column Height: 4. ft
Total Well Penetration Depth: 19. ft Screen Length: 15. ft
Casing Radius: 0.167 ft Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.2429 ft/day y0 = 0.3414 ft



MW-9 FALLING HEAD

Data Set: C:\Documents and Settings\LGalli\Desktop\Great Falls slug tests\MW-9.aqt
Date: 10/28/09 Time: 11:40:25

PROJECT INFORMATION

Company: GES, Inc.
Client: ExxonMobile
Project: 0402403
Location: Great Falls, VA
Test Well: MW-6
Test Date: 10/14/2009

AQUIFER DATA

Saturated Thickness: 50. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-9)

Initial Displacement: 1.16 ft
Total Well Penetration Depth: 20. ft
Casing Radius: 0.083 ft
Static Water Column Height: 5. ft
Screen Length: 20. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 0.02563 ft/day
y0 = 0.4343 ft

APPENDIX L

Groundwater Laboratory Data

New Jersey ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

09/29/09

Technical Report for

ExxonMobil Corporation

GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA

PO pending

Accutest Job Number: JA28861

Sampling Date: 09/24/09

Report to:

Groundwater & Environmental Services
2142 Priest Bridge Court Suite #1
Crofteon, MD 21114
ataylorsoncollins@gesonline.com

ATTN: Andrea Taylorson-Collins

Total number of pages in report: **13**

ACCUTEST LABORATORIES 50 YEARS 1956-2006

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
VP Ops, Laboratory Director

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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2.2: JA28861-2: MW-6D (110') 7
2.3: JA28861-3: MW-6 9
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Accutest Laboratories

Sample Summary

ExxonMobil Corporation

Job No: JA28861

GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA
Project No: PO pending

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JA28861-1	09/24/09	16:10	TD	09/25/09	AQ	Ground Water	MW-6D (75')
JA28861-2	09/24/09	17:37	TD	09/25/09	AQ	Ground Water	MW-6D (110')
JA28861-3	09/24/09	18:40	TD	09/25/09	AQ	Ground Water	MW-6

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6D (75')		
Lab Sample ID:	JA28861-1	**Date Sampled:**	09/24/09
Matrix:	AQ - Ground Water	**Date Received:**	09/25/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A81270.D	1	09/28/09	TGE	n/a	n/a	V1A3460
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	50	23	ug/l	
107-13-1	Acrylonitrile	ND	50	3.6	ug/l	
71-43-2	Benzene	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	4.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.4	ug/l	
67-66-3	Chloroform	0.89	1.0	0.23	ug/l	J
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	0.56	5.0	0.35	ug/l	J
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.92	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	87.4	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.35	1.0	0.25	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.0	1.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	2.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.55	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6D (75')		
Lab Sample ID:	JA28861-1	**Date Sampled:**	09/24/09
Matrix:	AQ - Ground Water	**Date Received:**	09/25/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l	
127-18-4	Tetrachloroethene	3.2	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	1.3	1.0	0.24	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.54	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		76-120%
17060-07-0	1,2-Dichloroethane-D4	106%		64-135%
2037-26-5	Toluene-D8	106%		76-117%
460-00-4	4-Bromofluorobenzene	100%		72-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6D (110')		
Lab Sample ID:	JA28861-2	**Date Sampled:**	09/24/09
Matrix:	AQ - Ground Water	**Date Received:**	09/25/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A81271.D	1	09/28/09	TGE	n/a	n/a	V1A3460
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	50	23	ug/l	
107-13-1	Acrylonitrile	ND	50	3.6	ug/l	
71-43-2	Benzene	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	4.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.4	ug/l	
67-66-3	Chloroform	0.99	1.0	0.23	ug/l	J
74-87-3	Chloromethane	0.98	1.0	0.29	ug/l	J
108-20-3	Di-Isopropyl ether	0.57	5.0	0.35	ug/l	J
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.92	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	90.8	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.37	1.0	0.25	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.0	1.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	2.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.55	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6D (110')		
Lab Sample ID:	JA28861-2	**Date Sampled:**	09/24/09
Matrix:	AQ - Ground Water	**Date Received:**	09/25/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l	
127-18-4	Tetrachloroethene	3.4	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	1.4	1.0	0.24	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.54	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		76-120%
17060-07-0	1,2-Dichloroethane-D4	107%		64-135%
2037-26-5	Toluene-D8	107%		76-117%
460-00-4	4-Bromofluorobenzene	99%		72-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JA28861-3	**Date Sampled:**	09/24/09
Matrix:	AQ - Ground Water	**Date Received:**	09/25/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A81272.D	1	09/28/09	TGE	n/a	n/a	V1A3460
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	50	23	ug/l	
107-13-1	Acrylonitrile	ND	50	3.6	ug/l	
71-43-2	Benzene	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	4.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.30	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.4	ug/l	
67-66-3	Chloroform	0.38	1.0	0.23	ug/l	J
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
108-20-3	Di-Isopropyl ether	2.1	5.0	0.35	ug/l	J
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.92	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	13.8	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.8	1.0	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	2.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.55	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.21	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JA28861-3	**Date Sampled:**	09/24/09
Matrix:	AQ - Ground Water	**Date Received:**	09/25/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l	
127-18-4	Tetrachloroethene	2.1	1.0	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	0.38	1.0	0.24	ug/l	J
75-69-4	Trichlorofluoromethane	ND	5.0	0.54	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		76-120%
17060-07-0	1,2-Dichloroethane-D4	108%		64-135%
2037-26-5	Toluene-D8	107%		76-117%
460-00-4	4-Bromofluorobenzene	100%		72-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

2235 Route 130 Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: JA28861

Client Information | Facility Information | Analytical Information

EXXONMOBIL CORPORATION - Regional Laboratory Program (MD, DE, DC)

Consultants Company Name: GES, Inc.
Project Name: XOM Great Falls
Address: 2142 Priest Bridge Ct, Ste 1
Street: 9901 Georgetown Pike
City: Crofton, MD State: Zip: 21114
City: Great Falls, VA State:
Project Contact: Andrea Taylorson-Collins
ExxonMobil Contact: Mike Bell
Sampler's Name: Timothy Davis
ExxonMobil Contact's Phone #:
Phone #: 800-220-3606 Ext. Fax #:
Location ID#: 2-6140 WBS#
AFE #:
PO#: PO pending Line#

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2SO4	None	Na2SO4	MEOH	Encore	8260 BTEX ☐ MTBE ☐ Naphthalene ☐	624 BTEX ☐ 524 BTEX ☐ MTBE ☐	TPH-GRO 8015B	TPH-DRO 8015B	Lead 6010 ☐ 200.9 ☐ Total ☐ Dissolved	Air - VTO3BTEX TPHF ☐	TO14: BTEX ☐ FULL ☐	ExxonMobil Grass Roots ☐	Soil Disposal Criteria ☐ Oil ☐	Full VOCs, Oxys, TIC 10 8260
					~~DW~~	3	X	TM																X TM
-1	MW-6D (75')	9/24/09	1610	TD	GW	3	X																	X
-2	MW-6D (110')	9/24/09	1737	TD	GW	3	X																	X
-3	MW-6	9/24/09	1840	TD	GW	3	X																	X

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☐ 8 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☒ 1 Day EMERGENCY

Approved By:/Date

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- ☒ Commercial "A"
- ☐ Commercial "B"
- ☐ Full Deliverables
- ☐ Other
- ☐ FULL CLP
- ☐ State Forms
- ☐ Disk Deliverable Format

Commercial "A" = Results only

Comments / Remarks

TRIC #8704 9288 7168 2048
NAB TRD 9/25/09

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by:	Date/Time:	Received by:
1 Jim Ch	1930 192409	1 Fed Ex	2 Fed Ex	9/25/09 1030	2 M Watkins
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Seal #	Preserved where applicable ☐	On Ice ☐ Temp. 3.2°C

TM

JA28861: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA28861 **Client:** **Immediate Client Services Action Required:** No

Date / Time Received: 9/25/2009 **Delivery Method:** **Client Service Action Required at Login:** No

Project: **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	
2. Trip Blank listed on COC:	☑		☐	
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JA28861: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

10/20/09

Technical Report for

ExxonMobil Corporation

GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA

Accutest Job Number: JA30574

Sampling Date: 10/15/09

Report to:

Groundwater & Environmental Services
2142 Priest Bridge Court Suite #1
Crofteon, MD 21114
ataylorsoncollins@gesonline.com

ATTN: Andrea Taylorson-Collins

Total number of pages in report: **26**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
VP Ops, Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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Accutest Laboratories

Sample Summary

ExxonMobil Corporation

Job No: JA30574

GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JA30574-1	10/15/09	09:00	BL	10/16/09	AQ	Ground Water	MW-1
JA30574-2	10/15/09	13:45	BL	10/16/09	AQ	Ground Water	MW-2
JA30574-3	10/15/09	11:30	BL	10/16/09	AQ	Ground Water	MW-5
JA30574-4	10/15/09	12:15	BL	10/16/09	AQ	Ground Water	MW-6S
JA30574-5	10/15/09	09:15	BL	10/16/09	AQ	Ground Water	MW-7
JA30574-6	10/15/09	10:15	BL	10/16/09	AQ	Ground Water	MW-8
JA30574-7	10/15/09	10:45	BL	10/16/09	AQ	Ground Water	MW-9
JA30574-8	10/15/09	13:00	BL	10/16/09	AQ	Ground Water	MW-10
JA30574-9	10/15/09	15:30	BL	10/16/09	AQ	Ground Water	MW-6D(75)
JA30574-10	10/15/09	16:40	BL	10/16/09	AQ	Ground Water	MW-6D(110)

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JA30574-1	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K156660.D	250	10/17/09	TYG	n/a	n/a	VK5990
Run #2	K156688.D	500	10/19/09	TYG	n/a	n/a	VK5992

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	250	59	ug/l	
108-88-3	Toluene	ND	250	75	ug/l	
100-41-4	Ethylbenzene	ND	250	67	ug/l	
1330-20-7	Xylene (total)	ND	250	63	ug/l	
1634-04-4	Methyl Tert Butyl Ether	121000 [a]	500	120	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%	90%	76-120%
17060-07-0	1,2-Dichloroethane-D4	89%	85%	64-135%
2037-26-5	Toluene-D8	108%	102%	76-117%
460-00-4	4-Bromofluorobenzene	105%	109%	72-122%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JA30574-1	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8015B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV76436.D	25	10/19/09	AVM	n/a	n/a	GUV3039
Run #2 [a]	UV76395.D	1	10/16/09	AVM	n/a	n/a	GUV3037

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	125	5.0	0.80	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	81%	83%	68-114%

(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JA30574-2	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K156659.D	250	10/17/09	TYG	n/a	n/a	VK5990
Run #2	K156689.D	500	10/19/09	TYG	n/a	n/a	VK5992

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	250	59	ug/l	
108-88-3	Toluene	ND	250	75	ug/l	
100-41-4	Ethylbenzene	ND	250	67	ug/l	
1330-20-7	Xylene (total)	ND	250	63	ug/l	
1634-04-4	Methyl Tert Butyl Ether	104000 [a]	500	120	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%	89%	76-120%
17060-07-0	1,2-Dichloroethane-D4	93%	87%	64-135%
2037-26-5	Toluene-D8	108%	105%	76-117%
460-00-4	4-Bromofluorobenzene	102%	113%	72-122%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JA30574-2	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8015B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV76437.D	25	10/19/09	AVM	n/a	n/a	GUV3039
Run #2 [a]	UV76396.D	1	10/17/09	AVM	n/a	n/a	GUV3037

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	117	5.0	0.80	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	84%	84%	68-114%

(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	JA30574-3	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K156651.D	1	10/17/09	TYG	n/a	n/a	VK5990
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	11.3	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		76-120%
17060-07-0	1,2-Dichloroethane-D4	95%		64-135%
2037-26-5	Toluene-D8	107%		76-117%
460-00-4	4-Bromofluorobenzene	104%		72-122%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	JA30574-3	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8015B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV76385.D	1	10/16/09	AVM	n/a	n/a	GUV3037
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	83%		68-114%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6S		
Lab Sample ID:	JA30574-4	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K156650.D	1	10/17/09	TYG	n/a	n/a	VK5990
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.1	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		76-120%
17060-07-0	1,2-Dichloroethane-D4	94%		64-135%
2037-26-5	Toluene-D8	105%		76-117%
460-00-4	4-Bromofluorobenzene	100%		72-122%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6S		
Lab Sample ID:	JA30574-4	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8015B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV76386.D	1	10/16/09	AVM	n/a	n/a	GUV3037
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	84%		68-114%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	JA30574-5	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K156657.D	10	10/17/09	TYG	n/a	n/a	VK5990
Run #2	K156690.D	100	10/19/09	TYG	n/a	n/a	VK5992

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.3	10	2.3	ug/l	J
108-88-3	Toluene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	ND	10	2.7	ug/l	
1330-20-7	Xylene (total)	ND	10	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4720 [a]	100	23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%	89%	76-120%
17060-07-0	1,2-Dichloroethane-D4	94%	89%	64-135%
2037-26-5	Toluene-D8	106%	103%	76-117%
460-00-4	4-Bromofluorobenzene	105%	106%	72-122%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	JA30574-5	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8015B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV76387.D	1	10/16/09	AVM	n/a	n/a	GUV3037
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	10.5	0.20	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	83%		68-114%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	JA30574-6	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K156658.D	100	10/17/09	TYG	n/a	n/a	VK5990
Run #2	K156691.D	1000	10/19/09	TYG	n/a	n/a	VK5992

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	72.3	100	23	ug/l	J
108-88-3	Toluene	ND	100	30	ug/l	
100-41-4	Ethylbenzene	ND	100	27	ug/l	
1330-20-7	Xylene (total)	41.3	100	25	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	203000 [a]	1000	230	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%	90%	76-120%
17060-07-0	1,2-Dichloroethane-D4	94%	89%	64-135%
2037-26-5	Toluene-D8	106%	106%	76-117%
460-00-4	4-Bromofluorobenzene	105%	109%	72-122%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	JA30574-6	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8015B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV76438.D	50	10/19/09	AVM	n/a	n/a	GUV3039
Run #2 [a]	UV76388.D	1	10/16/09	AVM	n/a	n/a	GUV3037

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	207	10	1.6	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	84%	83%	68-114%

(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	JA30574-7	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K156649.D	1	10/17/09	TYG	n/a	n/a	VK5990
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.35	1.0	0.27	ug/l	J
1330-20-7	Xylene (total)	1.1	1.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	62.9	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		76-120%
17060-07-0	1,2-Dichloroethane-D4	92%		64-135%
2037-26-5	Toluene-D8	106%		76-117%
460-00-4	4-Bromofluorobenzene	104%		72-122%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	JA30574-7	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8015B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV76435.D	1	10/19/09	AVM	n/a	n/a	GUV3039
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.430	0.20	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	82%		68-114%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	JA30574-8	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K156648.D	1	10/17/09	TYG	n/a	n/a	VK5990
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.4	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		76-120%
17060-07-0	1,2-Dichloroethane-D4	95%		64-135%
2037-26-5	Toluene-D8	104%		76-117%
460-00-4	4-Bromofluorobenzene	110%		72-122%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	JA30574-8	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8015B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV76381.D	1	10/16/09	AVM	n/a	n/a	GUV3037
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	81%		68-114%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6D(75)		
Lab Sample ID:	JA30574-9	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K156647.D	1	10/17/09	TYG	n/a	n/a	VK5990
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.0	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		76-120%
17060-07-0	1,2-Dichloroethane-D4	91%		64-135%
2037-26-5	Toluene-D8	107%		76-117%
460-00-4	4-Bromofluorobenzene	105%		72-122%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6D(75)		
Lab Sample ID:	JA30574-9	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8015B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV76393.D	1	10/16/09	AVM	n/a	n/a	GUV3037
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	84%		68-114%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6D(110)		
Lab Sample ID:	JA30574-10	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K156646.D	1	10/17/09	TYG	n/a	n/a	VK5990
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.0	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		76-120%
17060-07-0	1,2-Dichloroethane-D4	91%		64-135%
2037-26-5	Toluene-D8	105%		76-117%
460-00-4	4-Bromofluorobenzene	107%		72-122%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6D(110)		
Lab Sample ID:	JA30574-10	**Date Sampled:**	10/15/09
Matrix:	AQ - Ground Water	**Date Received:**	10/16/09
Method:	SW846 8015B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV76394.D	1	10/16/09	AVM	n/a	n/a	GUV3037
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	83%		68-114%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

GW

ACCUTEST Laboratories

CHAIN OF CUSTODY

2235 Route 130 Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

FX 8648 6015 7311

Accutest Job #: JA30574

Client Information | Facility Information

EXXONMOBIL CORPORATION - Regional Laboratory Program (MD, DE, DC)

Consultants Company Name: GES
Address: 2142 Priest Bridge Ct
City: Crofton State: MD Zip: 21114
Project Contact: Andrea Taylerson Collins
Sampler's Name: B. Lessner / T. Davis
Phone #: Ext. Fax #:
AFE #:

Project Name: VOM Great Falls
Street: 9801 Georgetown Pike
City: Great Falls State: VA
ExxonMobil Contact: Mike Gac
ExxonMobil Contact's Phone #:
Location ID#: 2-6148 WBS#:
PO#: Line#:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCL	NaOH	HNO3	H2SO4	None	Na2S2O3	MEOH	Encore	8260 BTEX ☒ MTBE ☒ Naphthalene ☐	624 BTEX ☐ 524 BTEX ☐ MTBE ☐	TPH-GRO 8015B	TPH-DRO 8015B	Lead 6010 ☐ 200.9 ☐ Total ☐ Dissolved ☐	Air - VTO3BTEX TPHF ☐	TO14: BTEX ☐ FULL ☐	ExxonMobil Grass Roots ☐	Soil Disposal Criteria ☐ Oil ☐								
-1	MW-1	10/15/09	0900	BL	GW	6	X								X		X									X					
-2	MW-2		1345		GW	6	X								X		X														
	~~MW-3~~				~~GW~~	~~6~~	X								X																
-3	MW-5		1130		GW	6	X								X		X														
-4	MW-6S		1215		GW	6	X								X		X														
-5	MW-7		0915		GW	6	X								X		X														
-6	MW-8		1015		GW	6	X								X		X														
-7	MW-9		1045		GW	6	X								X		X														
-8	MW-10		1300		GW	6	X								X		X														
-9	MW-6D (75)	10/15/09	1530	TD	GW	6	X								X		X														
-10	MW-6D (110)	10/15/09	1640	TD	GW	6	X								X		X														

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☐ 8 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☒ 1 Day *EMERGENCY*

Approved By:/Date: 1 DAY TAT

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- ☒ Commercial "A"
- ☐ Commercial "B"
- ☐ Full Deliverables
- ☐ Other
- ☐ FULL CLP
- ☐ State Forms
- ☐ Disk Deliverable Format _____

Commercial "A" = Results only

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
1 B. Lessner	10/15/09 1930	1 Fed Ex	2 Fed Ex	10/16/09 10:00	2
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Seal #	Preserved where applicable ☐	On Ice ☑ Temp. 3.3c

JA30574: Chain of Custody
Page 1 of 1

New Jersey ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

10/28/09

Technical Report for

ExxonMobil Corporation

GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA

Accutest Job Number: JA30722

Sampling Dates: 10/14/09 - 10/16/09

Report to:

Groundwater & Environmental Services

blessner@gesonline.com

ATTN: Brandon Lessner

Total number of pages in report: **27**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
VP Ops, Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

ExxonMobil Corporation

Job No: JA30722

GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JA30722-1	10/14/09	17:00	TD	10/17/09	SO	Soil	MW-11(32-34)
JA30722-1R	10/14/09	17:00	TD	10/17/09	SO	Soil	MW-11(32-34)
JA30722-2	10/14/09	17:05	TD	10/17/09	SO	Soil	MW-11(38-40)
JA30722-2R	10/14/09	17:05	TD	10/17/09	SO	Soil	MW-11(38-40)
JA30722-3	10/16/09	10:30	TD	10/17/09	AQ	Ground Water	MW-11
JA30722-3R	10/16/09	10:30	TD	10/17/09	AQ	Ground Water	MW-11
JA30722-4	10/16/09	13:10	TD	10/17/09	DW	Drinking Water	POTABLE 65
JA30722-4R	10/16/09	13:10	TD	10/17/09	DW	Drinking Water	POTABLE 65
JA30722-5	10/16/09	13:45	TD	10/17/09	DW	Drinking Water	POTABLE 105
JA30722-5R	10/16/09	13:45	TD	10/17/09	DW	Drinking Water	POTABLE 105

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Results

Report of Analysis

Accutest LabLink@526942 09:25 28-Oct-2009

Report of Analysis

Client Sample ID:	MW-11(32-34)		
Lab Sample ID:	JA30722-1	**Date Sampled:**	10/14/09
Matrix:	SO - Soil	**Date Received:**	10/17/09
Method:	SW846 8015B	**Percent Solids:**	78.4
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF77871.D	1	10/20/09	AVM	n/a	n/a	GPF1859
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.8 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	18.4	16	1.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	90%		66-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@526942 09:25 28-Oct-2009

Report of Analysis

Client Sample ID:	MW-11(32-34)		
Lab Sample ID:	JA30722-1	**Date Sampled:**	10/14/09
Matrix:	SO - Soil	**Date Received:**	10/17/09
Method:	SW846-8015 SW846 3545	**Percent Solids:**	78.4
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ56097.D	1	10/20/09	DNM	10/19/09	OP40490	GZZ1844
Run #2							

	Initial Weight	Final Volume
Run #1	17.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	7.4	3.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		17-148%
16416-32-3	Tetracosane-d50	81%		29-151%
438-22-2	5a-Androstane	70%		19-161%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@526942 09:25 28-Oct-2009

Report of Analysis

Client Sample ID:	MW-11(32-34)		
Lab Sample ID:	JA30722-1R	**Date Sampled:**	10/14/09
Matrix:	SO - Soil	**Date Received:**	10/17/09
Method:	SW846 8260B	**Percent Solids:**	78.4
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y93309.D	1	10/26/09	YXC	n/a	n/a	VY3925
Run #2	E157468.D	1	10/26/09	OTR	n/a	n/a	VE6937

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	2.1 g		
Run #2	9.9 g	10.0 ml	100 ul

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	150	43	ug/kg	
107-13-1	Acrylonitrile	ND	150	2.5	ug/kg	
71-43-2	Benzene	ND	3.0	1.0	ug/kg	
75-27-4	Bromodichloromethane	ND	15	0.78	ug/kg	
75-25-2	Bromoform	ND	15	0.46	ug/kg	
74-83-9	Bromomethane	ND	15	1.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	15	1.7	ug/kg	
108-90-7	Chlorobenzene	ND	15	1.0	ug/kg	
75-00-3	Chloroethane	ND	15	3.5	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	76	1.3	ug/kg	
67-66-3	Chloroform	ND	15	0.97	ug/kg	
74-87-3	Chloromethane	ND	15	0.50	ug/kg	
108-20-3	Di-Isopropyl ether	1.7	15	0.64	ug/kg	J
124-48-1	Dibromochloromethane	ND	15	0.33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	15	0.82	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	15	0.84	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	15	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	15	2.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	15	0.42	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethene	ND	15	2.0	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	15	0.73	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	15	1.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	15	0.39	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	15	0.40	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	15	0.29	ug/kg	
100-41-4	Ethylbenzene	ND	3.0	1.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	9600 [a]	78	22	ug/kg	
75-09-2	Methylene chloride	11.3	15	0.68	ug/kg	J
75-65-0	Tert Butyl Alcohol	39000 [a]	2000	1100	ug/kg	
994-05-8	tert-Amyl Methyl Ether	21.2	15	1.3	ug/kg	
637-92-3	tert-Butyl Ethyl Ether	ND	15	2.1	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@526942 09:25 28-Oct-2009

Report of Analysis

Client Sample ID:	MW-11(32-34)		
Lab Sample ID:	JA30722-1R	**Date Sampled:**	10/14/09
Matrix:	SO - Soil	**Date Received:**	10/17/09
Method:	SW846 8260B	**Percent Solids:**	78.4
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	15	0.89	ug/kg	
127-18-4	Tetrachloroethene	ND	15	0.44	ug/kg	
108-88-3	Toluene	ND	3.0	0.89	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	15	0.39	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	15	0.56	ug/kg	
79-01-6	Trichloroethene	ND	15	1.6	ug/kg	
75-69-4	Trichlorofluoromethane	ND	15	0.70	ug/kg	
75-01-4	Vinyl chloride	ND	15	0.54	ug/kg	
1330-20-7	Xylene (total)	ND	6.1	1.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%	83%	67-127%
17060-07-0	1,2-Dichloroethane-D4	85%	83%	65-132%
2037-26-5	Toluene-D8	89%	85%	74-129%
460-00-4	4-Bromofluorobenzene	75%	81%	62-138%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
75-85-4	Amylene Hydrate	8.65	24	ug/kg	JN
	Total TIC, Volatile		24	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW-11(38-40)		
Lab Sample ID:	JA30722-2	**Date Sampled:**	10/14/09
Matrix:	SO - Soil	**Date Received:**	10/17/09
Method:	SW846 8015B	**Percent Solids:**	75.5
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF77873.D	1	10/20/09	AVM	n/a	n/a	GPF1859
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.9 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	17	1.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	92%		66-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW-11(38-40)		
Lab Sample ID:	JA30722-2	**Date Sampled:**	10/14/09
Matrix:	SO - Soil	**Date Received:**	10/17/09
Method:	SW846-8015 SW846 3545	**Percent Solids:**	75.5
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ56098.D	1	10/20/09	DNM	10/19/09	OP40490	GZZ1844
Run #2							

	Initial Weight	Final Volume
Run #1	17.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	7.7	3.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		17-148%
16416-32-3	Tetracosane-d50	71%		29-151%
438-22-2	5a-Androstane	61%		19-161%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW-11(38-40)		
Lab Sample ID:	JA30722-2R	**Date Sampled:**	10/14/09
Matrix:	SO - Soil	**Date Received:**	10/17/09
Method:	SW846 8260B	**Percent Solids:**	75.5
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G124531.D	1	10/26/09	SJM	n/a	n/a	VG5925
Run #2	E157469.D	1	10/26/09	OTR	n/a	n/a	VE6937

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.0 g		
Run #2	10.2 g	10.0 ml	100 ul

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	83	24	ug/kg	
107-13-1	Acrylonitrile	ND	83	1.4	ug/kg	
71-43-2	Benzene	ND	1.7	0.56	ug/kg	
75-27-4	Bromodichloromethane	ND	8.3	0.43	ug/kg	
75-25-2	Bromoform	ND	8.3	0.25	ug/kg	
74-83-9	Bromomethane	ND	8.3	0.67	ug/kg	
56-23-5	Carbon tetrachloride	ND	8.3	0.92	ug/kg	
108-90-7	Chlorobenzene	ND	8.3	0.56	ug/kg	
75-00-3	Chloroethane	ND	8.3	1.9	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	41	0.69	ug/kg	
67-66-3	Chloroform	ND	8.3	0.53	ug/kg	
74-87-3	Chloromethane	ND	8.3	0.27	ug/kg	
108-20-3	Di-Isopropyl ether	2.4	8.3	0.35	ug/kg	J
124-48-1	Dibromochloromethane	ND	8.3	0.18	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	8.3	0.45	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	8.3	0.46	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	8.3	0.56	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	8.3	1.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	8.3	0.23	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.7	0.57	ug/kg	
75-35-4	1,1-Dichloroethene	ND	8.3	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	8.3	0.40	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	8.3	0.74	ug/kg	
78-87-5	1,2-Dichloropropane	ND	8.3	0.22	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	8.3	0.22	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	8.3	0.16	ug/kg	
100-41-4	Ethylbenzene	ND	1.7	0.61	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1940 [a]	81	23	ug/kg	
75-09-2	Methylene chloride	5.6	8.3	0.37	ug/kg	J
75-65-0	Tert Butyl Alcohol	8770 [a]	2000	1200	ug/kg	
994-05-8	tert-Amyl Methyl Ether	7.4	8.3	0.71	ug/kg	J
637-92-3	tert-Butyl Ethyl Ether	ND	8.3	1.2	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW-11(38-40)		
Lab Sample ID:	JA30722-2R	**Date Sampled:**	10/14/09
Matrix:	SO - Soil	**Date Received:**	10/17/09
Method:	SW846 8260B	**Percent Solids:**	75.5
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	8.3	0.49	ug/kg	
127-18-4	Tetrachloroethene	ND	8.3	0.24	ug/kg	
108-88-3	Toluene	ND	1.7	0.48	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	8.3	0.21	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	8.3	0.31	ug/kg	
79-01-6	Trichloroethene	ND	8.3	0.87	ug/kg	
75-69-4	Trichlorofluoromethane	ND	8.3	0.38	ug/kg	
75-01-4	Vinyl chloride	ND	8.3	0.29	ug/kg	
1330-20-7	Xylene (total)	ND	3.3	0.78	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%	85%	67-127%
17060-07-0	1,2-Dichloroethane-D4	80%	83%	65-132%
2037-26-5	Toluene-D8	100%	84%	74-129%
460-00-4	4-Bromofluorobenzene	89%	83%	62-138%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	JA30722-3	**Date Sampled:**	10/16/09
Matrix:	AQ - Ground Water	**Date Received:**	10/17/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K156737.D	1	10/20/09	TYG	n/a	n/a	VK5994
Run #2	K156738.D	100	10/20/09	TYG	n/a	n/a	VK5994

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	16.1	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
1330-20-7	Xylene (total)	6.6	1.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	28100 [a]	100	23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%	87%	76-120%
17060-07-0	1,2-Dichloroethane-D4	84%	86%	64-135%
2037-26-5	Toluene-D8	104%	104%	76-117%
460-00-4	4-Bromofluorobenzene	110%	109%	72-122%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	JA30722-3	**Date Sampled:**	10/16/09
Matrix:	AQ - Ground Water	**Date Received:**	10/17/09
Method:	SW846 8015B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV76439.D	1	10/19/09	AVM	n/a	n/a	GUV3039
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	35.6	0.20	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	84%		68-114%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	JA30722-3R	**Date Sampled:**	10/16/09
Matrix:	AQ - Ground Water	**Date Received:**	10/17/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C70224.D	10	10/21/09	MAH	n/a	n/a	V1C3046
Run #2	1C70268.D	50	10/22/09	MAH	n/a	n/a	V1C3048
Run #3	1C70255.D	200	10/22/09	MAH	n/a	n/a	V1C3048

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	500	230	ug/l	
107-13-1	Acrylonitrile	ND	500	36	ug/l	
71-43-2	Benzene	15.3	10	2.3	ug/l	
75-27-4	Bromodichloromethane	ND	10	2.2	ug/l	
75-25-2	Bromoform	ND	40	2.3	ug/l	
74-83-9	Bromomethane	ND	20	3.0	ug/l	
56-23-5	Carbon tetrachloride	ND	10	2.6	ug/l	
108-90-7	Chlorobenzene	ND	10	3.9	ug/l	
75-00-3	Chloroethane	ND	10	3.7	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	100	14	ug/l	
67-66-3	Chloroform	ND	10	2.3	ug/l	
74-87-3	Chloromethane	ND	10	2.9	ug/l	
108-20-3	Di-Isopropyl ether	1290	50	3.5	ug/l	
124-48-1	Dibromochloromethane	ND	10	2.2	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	2.6	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	2.8	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	9.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	2.9	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	3.3	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	4.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	5.9	10	2.2	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	10	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	2.7	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	2.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	2.1	ug/l	
100-41-4	Ethylbenzene	ND	10	2.7	ug/l	
1634-04-4	Methyl Tert Butyl Ether	38400 [a]	200	47	ug/l	
75-09-2	Methylene chloride	ND	20	3.0	ug/l	
75-65-0	Tert Butyl Alcohol	23300 [b]	1300	98	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@526942 09:25 28-Oct-2009

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	JA30722-3R	**Date Sampled:**	10/16/09
Matrix:	AQ - Ground Water	**Date Received:**	10/17/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
994-05-8	tert-Amyl Methyl Ether	464	50	5.5	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	50	2.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	2.4	ug/l	
127-18-4	Tetrachloroethene	ND	10	2.7	ug/l	
108-88-3	Toluene	ND	10	3.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	2.6	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	2.3	ug/l	
79-01-6	Trichloroethene	ND	10	2.4	ug/l	
75-69-4	Trichlorofluoromethane	ND	50	5.4	ug/l	
75-01-4	Vinyl chloride	ND	10	4.4	ug/l	
1330-20-7	Xylene (total)	10.9	10	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	108%	110%	108%	76-120%
17060-07-0	1,2-Dichloroethane-D4	103%	105%	101%	64-135%
2037-26-5	Toluene-D8	103%	104%	102%	76-117%
460-00-4	4-Bromofluorobenzene	113%	115%	116%	72-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	5.17	140	ug/l	J
	alkane	6.27	170	ug/l	J
	Total TIC, Volatile		310	ug/l	J

(a) Result is from Run# 3
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	POTABLE 65		
Lab Sample ID:	JA30722-4	**Date Sampled:**	10/16/09
Matrix:	DW - Drinking Water	**Date Received:**	10/17/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K156735.D	1	10/20/09	TYG	n/a	n/a	VK5994
Run #2	K156739.D	5	10/20/09	TYG	n/a	n/a	VK5994
Run #3	K156741.D	10	10/20/09	TYG	n/a	n/a	VK5994

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
71-43-2	Benzene	8.0	5.0	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1000	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	700	1.0	0.27	ug/l	
1330-20-7	Xylene (total)	8.4	10000	1.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2520 [a]		10	2.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	85%	88%	87%	76-120%
17060-07-0	1,2-Dichloroethane-D4	81%	85%	84%	64-135%
2037-26-5	Toluene-D8	103%	103%	101%	76-117%
460-00-4	4-Bromofluorobenzene	107%	111%	114%	72-122%

(a) Result is from Run# 3

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@526942 09:25 28-Oct-2009

Report of Analysis

Client Sample ID:	POTABLE 65		
Lab Sample ID:	JA30722-4	**Date Sampled:**	10/16/09
Matrix:	DW - Drinking Water	**Date Received:**	10/17/09
Method:	SW846 8015B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV76445.D	1	10/19/09	AVM	n/a	n/a	GUV3039
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	1.87		0.20	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	82%		68-114%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@526942 09:25 28-Oct-2009

Report of Analysis

Client Sample ID:	POTABLE 65		
Lab Sample ID:	JA30722-4R	**Date Sampled:**	10/16/09
Matrix:	DW - Drinking Water	**Date Received:**	10/17/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C70222.D	2	10/21/09	MAH	n/a	n/a	V1C3046
Run #2	1C70254.D	20	10/22/09	MAH	n/a	n/a	V1C3048

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA PPL List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
107-02-8	Acrolein	ND		100	46	ug/l	
107-13-1	Acrylonitrile	ND		100	7.3	ug/l	
71-43-2	Benzene	4.9	5.0	2.0	0.47	ug/l	
75-27-4	Bromodichloromethane	ND		2.0	0.44	ug/l	
75-25-2	Bromoform	ND		8.0	0.46	ug/l	
74-83-9	Bromomethane	ND		4.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.0	0.51	ug/l	
108-90-7	Chlorobenzene	ND	100	2.0	0.78	ug/l	
75-00-3	Chloroethane	ND		2.0	0.74	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND		20	2.9	ug/l	
67-66-3	Chloroform	1.7		2.0	0.47	ug/l	J
74-87-3	Chloromethane	ND		2.0	0.58	ug/l	
108-20-3	Di-Isopropyl ether	134		10	0.70	ug/l	
124-48-1	Dibromochloromethane	ND		2.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	600	2.0	0.52	ug/l	
541-73-1	1,3-Dichlorobenzene	ND		2.0	0.51	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	75	2.0	0.55	ug/l	
75-71-8	Dichlorodifluoromethane	ND		10	1.8	ug/l	
75-34-3	1,1-Dichloroethane	ND		2.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.0	0.67	ug/l	
75-35-4	1,1-Dichloroethene	ND	7.0	2.0	0.79	ug/l	
156-59-2	cis-1,2-Dichloroethene	399 [a]	70	20	4.3	ug/l	
156-60-5	trans-1,2-Dichloroethene	2.5	100	2.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.0	0.55	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	700	2.0	0.54	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2980 [a]		20	4.7	ug/l	
75-09-2	Methylene chloride	ND	5.0	4.0	0.61	ug/l	
75-65-0	Tert Butyl Alcohol	543		50	3.9	ug/l	
994-05-8	tert-Amyl Methyl Ether	75.7		10	1.1	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND		10	0.41	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@526942 09:25 28-Oct-2009

Report of Analysis

Client Sample ID:	POTABLE 65		
Lab Sample ID:	JA30722-4R	**Date Sampled:**	10/16/09
Matrix:	DW - Drinking Water	**Date Received:**	10/17/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.48	ug/l	
127-18-4	Tetrachloroethene	5.6	5.0	2.0	0.53	ug/l	
108-88-3	Toluene	ND	1000	2.0	0.60	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	2.0	0.51	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.0	0.46	ug/l	
79-01-6	Trichloroethene	6.4	5.0	2.0	0.48	ug/l	
75-69-4	Trichlorofluoromethane	ND		10	1.1	ug/l	
75-01-4	Vinyl chloride	ND	2.0	2.0	0.89	ug/l	
1330-20-7	Xylene (total)	2.4	10000	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%	108%	76-120%
17060-07-0	1,2-Dichloroethane-D4	102%	99%	64-135%
2037-26-5	Toluene-D8	102%	102%	76-117%
460-00-4	4-Bromofluorobenzene	113%	116%	72-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	5.19	58	ug/l	J
	alkane	6.28	43	ug/l	J
109-66-0	Pentane	6.75	10	ug/l	JN
	Total TIC, Volatile		111	ug/l	J

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@526942 09:25 28-Oct-2009

Report of Analysis

Client Sample ID:	POTABLE 105		
Lab Sample ID:	JA30722-5	**Date Sampled:**	10/16/09
Matrix:	DW - Drinking Water	**Date Received:**	10/17/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K156736.D	1	10/20/09	TYG	n/a	n/a	VK5994
Run #2	K156740.D	50	10/20/09	TYG	n/a	n/a	VK5994

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
71-43-2	Benzene	5.8	5.0	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1000	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	700	1.0	0.27	ug/l	
1330-20-7	Xylene (total)	4.1	10000	1.0	0.25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1180 [a]		50	12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%	90%	76-120%
17060-07-0	1,2-Dichloroethane-D4	86%	85%	64-135%
2037-26-5	Toluene-D8	104%	104%	76-117%
460-00-4	4-Bromofluorobenzene	107%	114%	72-122%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@526942 09:25 28-Oct-2009

Report of Analysis

Client Sample ID:	POTABLE 105		
Lab Sample ID:	JA30722-5	**Date Sampled:**	10/16/09
Matrix:	DW - Drinking Water	**Date Received:**	10/17/09
Method:	SW846 8015B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV76446.D	1	10/19/09	AVM	n/a	n/a	GUV3039
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	3.71		0.20	0.032	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
98-08-8	aaa-Trifluorotoluene	85%		68-114%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@526942 09:25 28-Oct-2009

Report of Analysis

Client Sample ID:	POTABLE 105		
Lab Sample ID:	JA30722-5R	**Date Sampled:**	10/16/09
Matrix:	DW - Drinking Water	**Date Received:**	10/17/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C70223.D	2	10/21/09	MAH	n/a	n/a	V1C3046
Run #2	1C70218.D	20	10/21/09	MAH	n/a	n/a	V1C3046

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA PPL List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
107-02-8	Acrolein	ND		100	46	ug/l	
107-13-1	Acrylonitrile	ND		100	7.3	ug/l	
71-43-2	Benzene	7.2	5.0	2.0	0.47	ug/l	
75-27-4	Bromodichloromethane	ND		2.0	0.44	ug/l	
75-25-2	Bromoform	ND		8.0	0.46	ug/l	
74-83-9	Bromomethane	ND		4.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.0	0.51	ug/l	
108-90-7	Chlorobenzene	ND	100	2.0	0.78	ug/l	
75-00-3	Chloroethane	ND		2.0	0.74	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND		20	2.9	ug/l	
67-66-3	Chloroform	1.2		2.0	0.47	ug/l	J
74-87-3	Chloromethane	1.2		2.0	0.58	ug/l	J
108-20-3	Di-Isopropyl ether	186		10	0.70	ug/l	
124-48-1	Dibromochloromethane	ND		2.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	600	2.0	0.52	ug/l	
541-73-1	1,3-Dichlorobenzene	ND		2.0	0.51	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	75	2.0	0.55	ug/l	
75-71-8	Dichlorodifluoromethane	ND		10	1.8	ug/l	
75-34-3	1,1-Dichloroethane	ND		2.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.0	0.67	ug/l	
75-35-4	1,1-Dichloroethene	ND	7.0	2.0	0.79	ug/l	
156-59-2	cis-1,2-Dichloroethene	179	70	2.0	0.43	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.95	100	2.0	0.50	ug/l	J
78-87-5	1,2-Dichloropropane	ND	5.0	2.0	0.55	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	700	2.0	0.54	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1270 [a]		20	4.7	ug/l	
75-09-2	Methylene chloride	ND	5.0	4.0	0.61	ug/l	
75-65-0	Tert Butyl Alcohol	181		50	3.9	ug/l	
994-05-8	tert-Amyl Methyl Ether	71.6		10	1.1	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND		10	0.41	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@526942 09:25 28-Oct-2009

Report of Analysis

Client Sample ID:	POTABLE 105		
Lab Sample ID:	JA30722-5R	**Date Sampled:**	10/16/09
Matrix:	DW - Drinking Water	**Date Received:**	10/17/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

VOA PPL List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.48	ug/l	
127-18-4	Tetrachloroethene	3.6	5.0	2.0	0.53	ug/l	
108-88-3	Toluene	ND	1000	2.0	0.60	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	2.0	0.51	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.0	0.46	ug/l	
79-01-6	Trichloroethene	2.7	5.0	2.0	0.48	ug/l	
75-69-4	Trichlorofluoromethane	ND		10	1.1	ug/l	
75-01-4	Vinyl chloride	ND	2.0	2.0	0.89	ug/l	
1330-20-7	Xylene (total)	5.9	10000	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%	106%	76-120%
17060-07-0	1,2-Dichloroethane-D4	102%	99%	64-135%
2037-26-5	Toluene-D8	102%	102%	76-117%
460-00-4	4-Bromofluorobenzene	112%	113%	72-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	5.18	180	ug/l	J
	alkane	6.28	120	ug/l	J
109-66-0	Pentane	6.75	34	ug/l	JN
	alkane	8.40	22	ug/l	J
	cycloalkane/alkene	8.55	42	ug/l	J
	cycloalkane/alkene	10.12	22	ug/l	J
	C3 alkyl benzene	16.96	15	ug/l	J
	Total TIC, Volatile		435	ug/l	J

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories

SO DW GW

CHAIN OF CUSTODY

2235 Route 130 Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: JA30722

Client Information | **Facility Information**

EXXONMOBIL CORPORATION - Regional Laboratory Program (MD, DE, DC)

Consultant's Company Name: GES
Project Name: Exxon 2-6140
Address: 2142 Priest Bridge Ct
Street: 9901 Georgetown Pike
City: Crofton State: MD Zip: 21114
City: Great Falls State: VA
Project Contact: Andrea Tafferson Collins
ExxonMobil Contact: Mike Geci
Sampler's Name: Tim Davis
ExxonMobil Contact's Phone #:
Phone #: 804-519-2703 Ext. Fax #:
Location ID#: 2-6140 WBS#
AFE #:
PO# Line#

Analytical Information: Naphthalene ☐; MTBE ☒; 8260 BTEX ☒; 624 BTEX ☐; 524 BTEX ☐; MTBE ☐; TPH-GRO 8015B ☒; TPH-DRO 8015B; Lead 6010 ☐ 200.9 ☐; Total ☐ Dissolved ☐; Air - VTO3BTEX TPHF ☐; TO14: BTEX ☐ FULL ☐; ExxonMobil Grass Roots ☐; Soil Disposal Criteria ☐ Oil ☐

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	HCL	NaOH	HNO3	H2SO4	None	Na2SO4	MEOH	Encore	8260 BTEX	624 BTEX	TPH-GRO 8015B	TPH-DRO 8015B
-1	MW-11 (32-34)	10-14-09	1700	TD	Soil	6					X				X		X	X
-2	MW-11 (38-40)	10-14-09	1705	TD	Soil	4					X				X		X	X
-3	MW-11	10-16-09	1030	TD	GW	6	X								X		X	
-4	Potable 65	10-16-09	1310	TD	GW	6	X								X		X	
-5	Potable 105	10-16-09	1345	TD	GW	6	X								X		X	

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☐ 8 Day RUSH
- ☐ 5 Day RUSH
- ☒ 3 Day EMERGENCY — 3 Day Soil!!
- ☐ 2 Day EMERGENCY
- ☒ 1 Day EMERGENCY — 1 DAY Groundwater

Approved By:/Date

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ Full Deliverables
- ☐ Other
- ☐ FULL CLP
- ☐ State Forms
- ☐ Disk Deliverable Format _____

Commercial "A" = Results only

Comments / Remarks

3 DAY TAT on Soil — EX52, 19D5, 930
1 DAY TAT on Groundwater
FEDEX # 8648 6015 7322

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
1 [signature]	10/16/09 1500	1 FEDEX	2 FEDEX	10-17-09 1000	2 [signature]
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Seal #	Preserved where applicable ☐	On Ice ☒ Temp. 4.6°C

JA30722: Chain of Custody
Page 1 of 2

Job Change Order: JA30722_10/21/2009

Requested Date:	10/21/2009	**Received Date:**	10/17/2009
Account Name:	ExxonMobil Corporation	**Due Date:**	10/22/2009
Project Description:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great	**Deliverable:**	COMMA
CSR:	TE	**TAT (Days):**	3

Sample #:
JA30722-all

Change: Relog for V8260PPL+10 and XVOXY5, OK to run out of holding time

JA30722: Chain of Custody
Page 2 of 2

Above Changes Gina Baker **Date:** 10/21/2009

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

APPENDIX M

Soil Gas SUMMA Laboratory Analytical Report

New Jersey ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

11/03/09

Technical Report for

ExxonMobil Corporation

GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA

Accutest Job Number: JA30639

Sampling Date: 10/15/09

Report to:

Groundwater & Environmental Services

mmcgaughey@gesonline.com

ATTN: Mary Kay McGaughey

Total number of pages in report: **23**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
VP Ops, Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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Accutest LabLink@528034 13:50 03-Nov-2009

Sample Summary

ExxonMobil Corporation

Job No: JA30639

GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JA30639-1	10/15/09	10:59	JJ	10/16/09	AIR	Air	SVMP-1
JA30639-2	10/15/09	11:07	JJ	10/16/09	AIR	Air	SVMP-1 DUP
JA30639-3	10/15/09	09:47	JJ	10/16/09	AIR	Air	SVMP-2S
JA30639-4	10/15/09	10:10	JJ	10/16/09	AIR	Air	SVMP-2D
JA30639-5	10/15/09	11:47	JJ	10/16/09	AIR	Air	SVMP-3

Sample Results

Report of Analysis

Accutest LabLink@528034 13:50 03-Nov-2009

Report of Analysis

Client Sample ID:	SVMP-1		
Lab Sample ID:	JA30639-1	**Date Sampled:**	10/15/09
Matrix:	AIR - Air Summa ID: A534	**Date Received:**	10/16/09
Method:	TO-15	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W23159.D	1.2	10/29/09	YMH	n/a	n/a	VW969
Run #2							

	Initial Volume
Run #1	120 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	16.3	0.80	0.16	ppbv		38.7	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.14	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	0.83	0.80	0.085	ppbv		2.7	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.11	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.088	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.096	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.073	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.13	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.13	ppbv		ND	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	0.48	0.80	0.11	ppbv	J	2.3	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.19	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.12	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.087	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.088	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.24	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.082	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.14	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.25	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	3.2	0.80	0.095	ppbv		16	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.14	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.94	0.80	0.14	ppbv		3.7	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	5.0	0.80	0.11	ppbv		20	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.076	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.064	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest LabLink@528034 13:50 03-Nov-2009

Report of Analysis

Client Sample ID:	SVMP-1		
Lab Sample ID:	JA30639-1	**Date Sampled:**	10/15/09
Matrix:	AIR - Air Summa ID: A534	**Date Received:**	10/16/09
Method:	TO-15	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	23.6	2.0	0.31	ppbv		44.5	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	1.0	0.80	0.077	ppbv		4.3	3.5	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.21	ppbv		ND	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.17	ppbv		ND	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.088	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.088	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	1.2	0.80	0.10	ppbv		4.9	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.17	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	5.3	0.80	0.077	ppbv		19	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.12	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	9.1	0.80	0.14	ppbv		22	2.0	ug/m3
75-09-2	84.94	Methylene chloride	0.80	0.80	0.10	ppbv		2.8	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.6	0.80	0.16	ppbv		4.7	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.18	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	32.0	0.80	0.089	ppbv		115	2.9	ug/m3
115-07-1	42	Propylene	ND	2.0	0.25	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.074	ppbv		ND	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.098	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.091	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.085	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.26	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.80	0.086	ppbv		ND	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.10	ppbv		ND	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	81.2	0.80	0.081	ppbv		379	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	4.0	0.80	0.092	ppbv		12	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	79.6	0.16	0.083	ppbv		540	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.13	ppbv		ND	2.4	ug/m3
108-88-3	92.14	Toluene	2.6	0.80	0.071	ppbv		9.8	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	0.61	0.16	0.074	ppbv		3.3	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	3.6	0.80	0.085	ppbv		20	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.092	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.18	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	2.5	0.80	0.18	ppbv		11	3.5	ug/m3
95-47-6	106.2	o-Xylene	1.0	0.80	0.094	ppbv		4.3	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	3.5	0.80	0.094	ppbv		15	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		65-128%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest LabLink@528034 13:50 03-Nov-2009

Report of Analysis

Client Sample ID:	SVMP-1		
Lab Sample ID:	JA30639-1	**Date Sampled:**	10/15/09
Matrix:	AIR - Air Summa ID: A534	**Date Received:**	10/16/09
Method:	TO-15	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	6.70	79	ppbv	J
109-66-0	Pentane	7.13	280	ppbv	JN
	alkane	9.00	19	ppbv	J
96-37-7	Cyclopentane, methyl-	10.20	24	ppbv	JN
	alkane	11.47	15	ppbv	J
108-87-2	Cyclohexane, methyl-	12.78	15	ppbv	JN
	alkane	12.98	12	ppbv	J
	alkane	13.05	13	ppbv	J
	alkane	13.45	63	ppbv	J
	alkane	14.22	20	ppbv	J
	alkane	18.50	17	ppbv	J
	alkane	19.15	13	ppbv	J
	alkane	19.20	25	ppbv	J
	alkane	19.36	29	ppbv	J
	alkane	19.42	16	ppbv	J
	Total TIC, Volatile		640	ppbv	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@528034 13:50 03-Nov-2009

Report of Analysis

Client Sample ID:	SVMP-1 DUP		
Lab Sample ID:	JA30639-2	**Date Sampled:**	10/15/09
Matrix:	AIR - Air Summa ID: A429	**Date Received:**	10/16/09
Method:	TO-15	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W23160.D	1.2	10/29/09	YMH	n/a	n/a	VW969
Run #2							

	Initial Volume
Run #1	120 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	16.5	0.80	0.16	ppbv		39.2	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.14	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	0.48	0.80	0.085	ppbv	J	1.5	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.11	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.088	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.096	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.073	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.13	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	4.2	0.80	0.13	ppbv		13	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	0.54	0.80	0.11	ppbv	J	2.6	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.19	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.12	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.087	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.088	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	3.3	0.80	0.24	ppbv		11	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.082	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.14	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.25	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	2.0	0.80	0.095	ppbv		9.9	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.14	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	1.3	0.80	0.14	ppbv		5.2	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	6.8	0.80	0.11	ppbv		27	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.076	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.064	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest LabLink@528034 13:50 03-Nov-2009

Report of Analysis

Client Sample ID:	SVMP-1 DUP		
Lab Sample ID:	JA30639-2	**Date Sampled:**	10/15/09
Matrix:	AIR - Air Summa ID: A429	**Date Received:**	10/16/09
Method:	TO-15	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	71.2	2.0	0.31	ppbv		134	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.37	0.80	0.077	ppbv	J	1.6	3.5	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.21	ppbv		ND	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.17	ppbv		ND	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.088	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.088	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	0.62	0.80	0.10	ppbv	J	2.5	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.17	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	3.1	0.80	0.077	ppbv		11	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.12	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.14	ppbv		ND	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.10	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.4	0.80	0.16	ppbv		4.1	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.18	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	31.9	0.80	0.089	ppbv		115	2.9	ug/m3
115-07-1	42	Propylene	ND	2.0	0.25	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.074	ppbv		ND	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.098	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.091	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.085	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.26	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.43	0.80	0.086	ppbv	J	2.1	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.10	ppbv		ND	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	55.7	0.80	0.081	ppbv		260	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	2.2	0.80	0.092	ppbv		6.7	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	126	0.16	0.083	ppbv		854	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.13	ppbv		ND	2.4	ug/m3
108-88-3	92.14	Toluene	1.7	0.80	0.071	ppbv		6.4	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	0.74	0.16	0.074	ppbv		4.0	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	3.4	0.80	0.085	ppbv		19	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.092	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.18	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	1.0	0.80	0.18	ppbv		4.3	3.5	ug/m3
95-47-6	106.2	o-Xylene	0.41	0.80	0.094	ppbv	J	1.8	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	1.5	0.80	0.094	ppbv		6.5	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		65-128%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest LabLink@528034 13:50 03-Nov-2009

Report of Analysis

Client Sample ID:	SVMP-1 DUP		
Lab Sample ID:	JA30639-2	**Date Sampled:**	10/15/09
Matrix:	AIR - Air Summa ID: A429	**Date Received:**	10/16/09
Method:	TO-15	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
109-66-0	Pentane	7.12	320	ppbv	JN
	alkane	13.45	56	ppbv	J
	alkane	14.22	19	ppbv	J
	alkane	18.50	15	ppbv	J
	alkane	19.15	13	ppbv	J
	alkane	19.20	23	ppbv	J
	alkane	19.36	29	ppbv	J
	alkane	19.42	17	ppbv	J
	Total TIC, Volatile		492	ppbv	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@528034 13:50 03-Nov-2009

Report of Analysis

Client Sample ID:	SVMP-2S				
Lab Sample ID:	JA30639-3			**Date Sampled:**	10/15/09
Matrix:	AIR - Air	Summa ID:	A583,A802	**Date Received:**	10/16/09
Method:	TO-15			**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W23161.D	1	10/29/09	YMH	n/a	n/a	VW969
Run #2	W23175.D	64	10/30/09	YMH	n/a	n/a	VW970

	Initial Volume
Run #1	100 ml
Run #2	100 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	ND	0.80	0.16	ppbv		ND	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.14	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	3.7	0.80	0.085	ppbv		12	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.11	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.088	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.096	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.073	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.13	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.13	ppbv		ND	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.11	ppbv		ND	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.19	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.12	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.087	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.088	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	123 [a]	51	16	ppbv		423 [a]	180	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.082	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.14	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.25	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.79	0.80	0.095	ppbv	J	3.9	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.14	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.14	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	9.1	0.80	0.11	ppbv		36	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.076	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.064	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest LabLink@528034 13:50 03-Nov-2009

Report of Analysis

Client Sample ID:	SVMP-2S		
Lab Sample ID:	JA30639-3	**Date Sampled:**	10/15/09
Matrix:	AIR - Air Summa ID: A583,A802	**Date Received:**	10/16/09
Method:	TO-15	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	ND	2.0	0.31	ppbv		ND	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.94	0.80	0.077	ppbv		4.1	3.5	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.21	ppbv		ND	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.17	ppbv		ND	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.088	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.088	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	36.8	0.80	0.10	ppbv		151	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.17	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	636 [a]	51	4.9	ppbv		2240 [a]	180	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.12	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.14	ppbv		ND	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.10	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.16	ppbv		ND	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.18	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	3420 [a]	51	5.7	ppbv		12300 [a]	180	ug/m3
115-07-1	42	Propylene	ND	2.0	0.25	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.074	ppbv		ND	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.098	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.091	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.085	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.26	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.80	0.086	ppbv		ND	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.10	ppbv		ND	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	9760 [a]	51	5.2	ppbv		45600 [a]	240	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	165 [a]	51	5.9	ppbv		500 [a]	150	ug/m3
127-18-4	165.8	Tetrachloroethylene	2.0	0.16	0.083	ppbv		14	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.13	ppbv		ND	2.4	ug/m3
108-88-3	92.14	Toluene	1.1	0.80	0.071	ppbv		4.1	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.074	ppbv		ND	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.085	ppbv		ND	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.092	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.18	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	2.5	0.80	0.18	ppbv		11	3.5	ug/m3
95-47-6	106.2	o-Xylene	1.1	0.80	0.094	ppbv		4.8	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	3.6	0.80	0.094	ppbv		16	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%	99%	65-128%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest LabLink@528034 13:50 03-Nov-2009

Report of Analysis

Client Sample ID:	SVMP-2S		
Lab Sample ID:	JA30639-3	**Date Sampled:**	10/15/09
Matrix:	AIR - Air Summa ID: A583,A802	**Date Received:**	10/16/09
Method:	TO-15	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	10.55	62	ppbv	J
	alkane	11.06	65	ppbv	J
	alkane	11.33	87	ppbv	J
	alkane	11.41	110	ppbv	J
	alkane	11.57	130	ppbv	J
	cycloalkane/alkene	11.80	51	ppbv	JN
	alkane	11.93	150	ppbv	J
108-87-2	Cyclohexane, methyl-	12.88	97	ppbv	JN
	alkane	13.05	67	ppbv	J
	alkane	13.16	160	ppbv	J
	alkane	13.56	630	ppbv	J
	alkane	13.79	190	ppbv	J
	alkane	14.32	350	ppbv	J
	cycloalkane/alkene	14.90	48	ppbv	J
	alkane	15.06	65	ppbv	J
	Total TIC, Volatile		2262	ppbv	J

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@528034 13:50 03-Nov-2009

Report of Analysis

Client Sample ID:	SVMP-2D				
Lab Sample ID:	JA30639-4			**Date Sampled:**	10/15/09
Matrix:	AIR - Air	Summa ID:	A533,A498	**Date Received:**	10/16/09
Method:	TO-15			**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W23162.D	224	10/30/09	YMH	n/a	n/a	VW969
Run #2	W23176.D	224	10/30/09	YMH	n/a	n/a	VW970

	Initial Volume
Run #1	100 ml
Run #2	10.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	ND	180	35	ppbv		ND	430	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	180	32	ppbv		ND	400	ug/m3
71-43-2	78.11	Benzene	308	180	19	ppbv		984	580	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	180	25	ppbv		ND	1200	ug/m3
75-25-2	252.8	Bromoform	ND	180	20	ppbv		ND	1900	ug/m3
74-83-9	94.94	Bromomethane	ND	180	22	ppbv		ND	700	ug/m3
593-60-2	106.9	Bromoethene	ND	180	16	ppbv		ND	790	ug/m3
100-44-7	126	Benzyl Chloride	ND	180	30	ppbv		ND	930	ug/m3
75-15-0	76.14	Carbon disulfide	ND	180	30	ppbv		ND	560	ug/m3
108-90-7	112.6	Chlorobenzene	ND	180	23	ppbv		ND	830	ug/m3
75-00-3	64.52	Chloroethane	ND	180	36	ppbv		ND	470	ug/m3
67-66-3	119.4	Chloroform	ND	180	25	ppbv		ND	880	ug/m3
74-87-3	50.49	Chloromethane	ND	180	42	ppbv		ND	370	ug/m3
107-05-1	76.53	3-Chloropropene	ND	180	28	ppbv		ND	560	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	180	20	ppbv		ND	930	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	180	20	ppbv		ND	1100	ug/m3
110-82-7	84.16	Cyclohexane	7910	180	55	ppbv		27200	620	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	180	29	ppbv		ND	730	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	180	39	ppbv		ND	710	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	180	18	ppbv		ND	1400	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	180	32	ppbv		ND	730	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	180	26	ppbv		ND	830	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	180	56	ppbv		ND	650	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	180	21	ppbv		ND	890	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	180	31	ppbv		ND	1500	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	180	31	ppbv		ND	710	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	1130	180	25	ppbv		4480	710	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	180	17	ppbv		ND	820	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	180	28	ppbv		ND	1100	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	180	33	ppbv		ND	1100	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	180	29	ppbv		ND	1100	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	180	14	ppbv		ND	820	ug/m3

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest LabLink@528034 13:50 03-Nov-2009

Report of Analysis

Client Sample ID:	SVMP-2D		
Lab Sample ID:	JA30639-4	**Date Sampled:**	10/15/09
Matrix:	AIR - Air Summa ID: A533,A498	**Date Received:**	10/16/09
Method:	TO-15	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	ND	450	69	ppbv		ND	850	ug/m3
100-41-4	106.2	Ethylbenzene	ND	180	17	ppbv		ND	780	ug/m3
141-78-6	88	Ethyl Acetate	ND	180	46	ppbv		ND	650	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	180	39	ppbv		ND	880	ug/m3
76-13-1	187.4	Freon 113	ND	180	20	ppbv		ND	1400	ug/m3
76-14-2	170.9	Freon 114	ND	180	20	ppbv		ND	1300	ug/m3
142-82-5	100.2	Heptane	1690	180	23	ppbv		6930	740	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	180	39	ppbv		ND	1900	ug/m3
110-54-3	86.17	Hexane	71700 [a]	1800	170	ppbv		253000 [a]	6300	ug/m3
591-78-6	100	2-Hexanone	ND	180	27	ppbv		ND	740	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	180	31	ppbv		ND	440	ug/m3
75-09-2	84.94	Methylene chloride	ND	180	22	ppbv		ND	630	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	180	35	ppbv		ND	530	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	180	40	ppbv		ND	740	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	31300	180	20	ppbv		113000	650	ug/m3
115-07-1	42	Propylene	ND	450	55	ppbv		ND	770	ug/m3
100-42-5	104.1	Styrene	ND	180	16	ppbv		ND	770	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	180	22	ppbv		ND	980	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	180	20	ppbv		ND	1200	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	180	19	ppbv		ND	980	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	180	59	ppbv		ND	1300	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	180	19	ppbv		ND	880	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	180	23	ppbv		ND	880	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	254000 [a]	1800	180	ppbv		1190000 [a]	8400	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	180	21	ppbv		ND	550	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	36	19	ppbv		ND	240	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	180	28	ppbv		ND	530	ug/m3
108-88-3	92.14	Toluene	ND	180	16	ppbv		ND	680	ug/m3
79-01-6	131.4	Trichloroethylene	ND	36	17	ppbv		ND	190	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	180	19	ppbv		ND	1000	ug/m3
75-01-4	62.5	Vinyl chloride	ND	180	21	ppbv		ND	460	ug/m3
108-05-4	86	Vinyl Acetate	ND	180	41	ppbv		ND	630	ug/m3
	106.2	m,p-Xylene	ND	180	40	ppbv		ND	780	ug/m3
95-47-6	106.2	o-Xylene	ND	180	21	ppbv		ND	780	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	180	21	ppbv		ND	780	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%	84%	65-128%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest LabLink@528034 13:50 03-Nov-2009

Report of Analysis

Client Sample ID:	SVMP-2D		
Lab Sample ID:	JA30639-4	**Date Sampled:**	10/15/09
Matrix:	AIR - Air Summa ID: A533,A498	**Date Received:**	10/16/09
Method:	TO-15	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	5.81	13000	ppbv	J
	alkane	6.70	38000	ppbv	J
109-66-0	Pentane	7.18	21000	ppbv	JN
	alkane	7.92	10000	ppbv	J
	alkane	8.69	27000	ppbv	J
	alkane	9.05	21000	ppbv	J
96-37-7	Cyclopentane, methyl-	10.26	16000	ppbv	JN
	alkane	11.25	18000	ppbv	J
	alkane	11.34	15000	ppbv	J
	alkane	11.49	22000	ppbv	J
108-87-2	Cyclohexane, methyl-	12.79	12000	ppbv	JN
	alkane	13.01	9700	ppbv	J
	alkane	13.47	52000	ppbv	J
	alkane	13.63	73000	ppbv	J
	alkane	14.24	14000	ppbv	J
	Total TIC, Volatile		361700	ppbv	J

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@528034 13:50 03-Nov-2009

Report of Analysis

Client Sample ID:	SVMP-3		
Lab Sample ID:	JA30639-5	**Date Sampled:**	10/15/09
Matrix:	AIR - Air Summa ID: A383	**Date Received:**	10/16/09
Method:	TO-15	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W23163.D	1.15	10/30/09	YMH	n/a	n/a	VW969
Run #2							

	Initial Volume
Run #1	115 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	19.0	0.80	0.16	ppbv		45.1	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.14	ppbv		ND	1.8	ug/m3
71-43-2	78.11	Benzene	1.6	0.80	0.085	ppbv		5.1	2.6	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.11	ppbv		ND	5.4	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.088	ppbv		ND	8.3	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.096	ppbv		ND	3.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.073	ppbv		ND	3.5	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.13	ppbv		ND	4.1	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.13	ppbv		ND	2.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.16	ppbv		ND	2.1	ug/m3
67-66-3	119.4	Chloroform	0.58	0.80	0.11	ppbv	J	2.8	3.9	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.19	ppbv		ND	1.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.12	ppbv		ND	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.087	ppbv		ND	4.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.088	ppbv		ND	5.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.24	ppbv		ND	2.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.13	ppbv		ND	3.2	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.18	ppbv		ND	3.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.082	ppbv		ND	6.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.14	ppbv		ND	3.2	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.11	ppbv		ND	3.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.25	ppbv		ND	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	1.1	0.80	0.095	ppbv		5.4	4.0	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.14	ppbv		ND	6.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.14	ppbv		ND	3.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.076	ppbv		ND	3.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.15	ppbv		ND	4.8	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.13	ppbv		ND	4.8	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.064	ppbv		ND	3.6	ug/m3

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest LabLink@528034 13:50 03-Nov-2009

Report of Analysis

Client Sample ID:	SVMP-3		
Lab Sample ID:	JA30639-5	**Date Sampled:**	10/15/09
Matrix:	AIR - Air Summa ID: A383	**Date Received:**	10/16/09
Method:	TO-15	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	20.7	2.0	0.31	ppbv		39.0	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.077	ppbv		ND	3.5	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.21	ppbv		ND	2.9	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.17	ppbv		ND	3.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.088	ppbv		ND	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.088	ppbv		ND	5.6	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.10	ppbv		ND	3.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.17	ppbv		ND	8.5	ug/m3
110-54-3	86.17	Hexane	3.0	0.80	0.077	ppbv		11	2.8	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.12	ppbv		ND	3.3	ug/m3
67-63-0	60.1	Isopropyl Alcohol	7.9	0.80	0.14	ppbv		19	2.0	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.10	ppbv		ND	2.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.7	0.80	0.16	ppbv		5.0	2.4	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.18	ppbv		ND	3.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	2.7	0.80	0.089	ppbv		9.7	2.9	ug/m3
115-07-1	42	Propylene	ND	2.0	0.25	ppbv		ND	3.4	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.074	ppbv		ND	3.4	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.098	ppbv		ND	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.091	ppbv		ND	5.5	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.085	ppbv		ND	4.4	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.26	ppbv		ND	5.9	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.80	0.086	ppbv		ND	3.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.10	ppbv		ND	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	14.3	0.80	0.081	ppbv		66.8	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	2.7	0.80	0.092	ppbv		8.2	2.4	ug/m3
127-18-4	165.8	Tetrachloroethylene	14.4	0.16	0.083	ppbv		97.6	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.91	0.80	0.13	ppbv		2.7	2.4	ug/m3
108-88-3	92.14	Toluene	2.5	0.80	0.071	ppbv		9.4	3.0	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.074	ppbv		ND	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.69	0.80	0.085	ppbv	J	3.9	4.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.092	ppbv		ND	2.0	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.18	ppbv		ND	2.8	ug/m3
	106.2	m,p-Xylene	0.95	0.80	0.18	ppbv		4.1	3.5	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.094	ppbv		ND	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	0.95	0.80	0.094	ppbv		4.1	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		65-128%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest LabLink@528034 13:50 03-Nov-2009

Report of Analysis

Client Sample ID:	SVMP-3		
Lab Sample ID:	JA30639-5	**Date Sampled:**	10/15/09
Matrix:	AIR - Air Summa ID: A383	**Date Received:**	10/16/09
Method:	TO-15	**Percent Solids:**	n/a
Project:	GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA		

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	6.71	97	ppbv	J
109-66-0	Pentane	7.15	68	ppbv	JN
	alkane	7.88	24	ppbv	J
	alkane	9.00	15	ppbv	J
	alkane	13.44	10	ppbv	J
	Total TIC, Volatile		214	ppbv	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

ExxonMobil

ACCUTEST Laboratories

www.accutest.com

CHAIN OF CUSTODY

Air Sampling Field Data Sheet

2235 US Highway 130, Dayton, NJ 08810

Tel: 732.329.0200 Fax: 732.329.3499

FED-EX Tracking #	Bottle Order Control # TE-10/13/2009-3	PAGE 1 OF 1
Lab Quote #	Lab Job # JA30639	

Client / Reporting Information

Company Name: Groundwater and Environmental Services (GES)

Project Name: XOM 2-6140 Great Falls

Address: 2142 Priest Bridge Court Suite 1

Street: 9401 Georgetown Pike

City: Crofton State: MD Zip: 21114

City: Great Falls State: VA

Project Contact: Andrea Taylorson-Collins E-mail:

Project #:

Phone #: 800-220-3606 Fax #:

Client Purchase Order #: XOM PO Pending

Sampler(s) Name(s): Jeremy Joiner

Weather Parameters

Temperature (Fahrenheit)
Start: 42 Maximum: 46
Stop: 46 Minimum: 42

Atmoshpheric Pressure (inches of Hg)
Start: Maximum:
Stop: Minimum:

Other weather comment: Drizzle to light rain

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor (I) Soil Vap (SV) Ambient(A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24 hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24 hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Requested Analysis: VOCs EPA method TO-15	Methane method TO-13		
-1	SVMP-1	SV	A534	1	FC302	10/15/09	1054	29		JJ	10/15/09	1059	4		JJ	X	X		
-2	SVMP-1 Dup	SV	A429	1	FC142	10/15/09	1102	30		JJ		1107	5		JJ	X	X		
-3	SVMP-2S	SV	A583	1	FC330		0942	30		JJ		0947	2		JJ	X	X		
-4	SVMP-2D	SV	A533	1	FC174		1005	24		JJ		1010	0		JJ	X	X		
-5	SVMP-3	SV	A383	1	FC345		1142	30		JJ		1147	5		JJ	X	X		

Turnaround Time (Business Days)

Standard - 15 Days	X
10 Day	
5 Day	
3 Day	
2 Day	
1 Day	
Other	

Approved By:

Date: 10/16/09

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1

Comm A	X
Comm B	
Reduced T2	
Full T1	
Other:	

Comments / Remarks

Summa

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Laboratory	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
1 Greg Manoian	10/13/09	1 ~~FedEx~~ G Baker	2 ~~FedEx~~ G Baker	10-16-09	3 10-16-09 1400
Relinquished by: 3 10-16-09	Date Time: 1735	Received by: 3 Mallina	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Custody Seal # —		

JA30639: Chain of Custody

Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA30639 **Client:** **Immediate Client Services Action Required:** No

Date / Time Received: 10/16/2009 **Delivery Method:** **Client Service Action Required at Login:** No

Project: **No. Coolers:** 0 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	
2. Trip Blank listed on COC:	☐		☐	
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JA30639: Chain of Custody
Page 2 of 2

Summa Canister and Flow Controller Log

Job Number: JA30639
Account: EXXONSS ExxonMobil Corporation
Project: GESMD: S/S 2-6140, 9901 Georgetown Pike, Great Falls, VA
Received: 10/16/09

SUMMA CANISTERS

Shipping							Receiving						
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A534	1	29.4	10/13/09	TVW	CP3652	W22864.D	JA30639-1	10/19/09	TVW	3			1
A429	1	29.4	10/13/09	TVW	CP3652	W22864.D	JA30639-2	10/19/09	TVW	3			1
A583	1	29.4	10/13/09	TVW	CP3652	W22864.D	JA30639-3	10/19/09	TVW	0			1
A533	1	29.4	10/13/09	TVW	CP3652	W22864.D	JA30639-4	10/19/09	TVW		1		1
A383	1	29.4	10/13/09	TVW	CP3652	W22864.D	JA30639-5	10/19/09	TVW	2			1

FLOW CONTROLLERS

Shipping					Receiving		
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min
FC142	10/13/09	TVW	167	.083	10/19/09	TVW	161
FC174	10/13/09	TVW	167	.083	10/19/09	TVW	183
FC302	10/13/09	TVW	167	.083	10/19/09	TVW	164
FC330	10/13/09	TVW	167	.083	10/19/09	TVW	173
FC345	10/13/09	TVW	167	.083	10/19/09	TVW	173

Accutest Bottle Order(s):
TE-10/13/2009-3

Prep Date	Room Temp(F)	Bar Pres "Hg
10/13/09	67.1	29.83

APPENDIX N

Waste Disposal Record

SHIPPING DOCUMENT

SCANNED

Manifest Document #: _____

Document #: 15453

Generator: ExxonMobil #2-6140	Facility: **TRIUMVIRATE ENVIRONMENTAL**
US EPA ID#: N/A	US EPA ID#: MDD093002384
Address: 9901 Georgetown Pike	☒ 1500 Carbon Avenue - Baltimore, MD 21226 (410) 636-3700
City: Great Falls **State:** VA **Zip:** 22066	☐ 195 Wyche Road - Stafford, VA 22554 (540) 288-1176
Contact: Mary Kay McGaughey **Phone:** 800-220-3606	☐ 702-D Naylor Mill Rd. - Salisbury, MD 21801 (410) 543-1559
Transporter 1: Triumvirate Environmental	Other Facility:
US EPA ID#: MDD985397124 **Phone:** 410-636-3700	US EPA ID#:
Transporter 2:	Address:
US EPA ID#: **Phone:**	City: State: Zip:

Non RCRA/Non DOT Regulated Materials-Solids

Line		Profile #
	Spill Debris	25000A
	Soil, Petroleum	24000A
	Soil, Gasoline for Recycling	24000F
	Sorbents, Gasoline for Recycling	24000G
	Sorbents, Jet Fuel	24000H
	Sorbents, Oil	24000I
	Oil, Sludge	23000A
	Gasoline, Sludge for Recycling	23000B
	Industrial Sludge	23000D
	Construction Debris	25000B
	Carbon Media	24000C
	Gasoline Filters for Recycling	24000E
	Oil Filters for Recycling	24300A
	Empty Drums	24400A
	Sandblast Media	24500A

Non RCRA/Non DOT Regulated Materials-Liquids

Line		Profile #
A	Petroleum Impacted Water	20020A
	Oil, Water for Recycling	21050A
	Oil for Recycling	21050B
	Oil, Water, Sludge for Recycling	21050C
	Mineral Oil for Recycling	21050D
	Glycols for Recycling	21070A
	Diesel, Water for Recycling	22070F
	Kerosene/Jet Fuel, Water for Recycling	22070D
	Commercial Contact Water	20020B

DOT Regulated/Non RCRA Materials-Liquids

Line		Profile #
	UN1203, Gasoline Mixture, 3, PGII, ERG #128	22070A
	UN1203, Gasoline, 3, PGII, ERG #128	22070B
	NA1993, Combustible Liquid, N.O.S., 3, PGII, ERG #128	22070C
	NA1993, Diesel Fuel, 3, PGIII, ERG #128	22070G
	UN1863, Fuel, Aviation, Turbine Engine, 3, PGII, ERG #128	22070H
	UN1223, Kerosene, 3, PGIII, ERG #128	22070E

Additional Information: SR — B — A

Job No.: 304979 WO# 234293 DRUMS

24 Hr. Emergency #: (410) 636-3700 Truck # 2006

Line	Profile No.	Containers No.	Containers Type	Total Quantity	Unit Wt./Vol.	Quantity Liquid	Quantity Solid	Quantity Sludge	Notes
A	20020A	3	DM	165	G	165			
B									
C									
D									
E									
F									

Generator's Certification: I certify the materials described above on this shipping document are not subject to Federal Regulations for reporting proper disposal of Hazardous Waste. I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable and national government regulations.

Type/Print Name		Signature	Month Day Year
X Brandon Lessner	On Behalf of ExxonMobil	Brandon Lessner	9/21/9

Transporter 1 Acknowledgement of Receipt of Materials

Type/Print Name	Signature	Month Day Year
MIKE SMITH	Mike Smith	9/21/9

Transporter 2 Acknowledgement of Receipt of Materials

Type/Print Name	Signature	Month Day Year

Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of materials covered by this shipping document except as noted in Discrepancy area above.

Type/Print Name	Signature	Month Day Year
Tina Moncrief	Tina Moncrief	9 21 09

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SCANNED

SHIPPING DOCUMENT

Manifest Document #: _____

Document #: 15454

Generator: ExxonMobil #2-6140	Facility: **TRIUMVIRATE ENVIRONMENTAL**
US EPA ID#: N/A	US EPA ID#: MDD093002384
Address: 9901 Georgetown Pike	☒ 1500 Carbon Avenue - Baltimore, MD 21226 (410) 636-3700
City: Great Falls **State:** VA **Zip:** 22066	☐ 195 Wyche Road - Stafford, VA 22554 (540) 288-1176
Contact: Mary Kay McGaughey **Phone:** 800-220-3606	☐ 702-D Naylor Mill Rd. - Salisbury, MD 21801 (410) 543-1559
Transporter 1: Triumvirate Environmental	Other Facility: Soil Safe
US EPA ID#: MDD985397124 **Phone:** 410-636-3700	US EPA ID#:
Transporter 2:	Address: Mattawoman Drive
US EPA ID#: **Phone:**	City: Brandywine State: MD Zip: 20613

Non RCRA/Non DOT Regulated Materials-Solids

Line		Profile #
	Spill Debris	25000A
A	Soil, Petroleum	24000A
	Soil, Gasoline for Recycling	24000F
	Sorbents, Gasoline for Recycling	24000G
	Sorbents, Jet Fuel	24000H
	Sorbents, Oil	24000I
	Oil, Sludge	23000A
	Gasoline, Sludge for Recycling	23000B
	Industrial Sludge	23000D
	Construction Debris	25000B
	Carbon Media	24000C
	Gasoline Filters for Recycling	24000E
	Oil Filters for Recycling	24300A
	Empty Drums	24400A
	Sandblast Media	24500A

Non RCRA/Non DOT Regulated Materials-Liquids

Line		Profile #
	Petroleum Impacted Water	20020A
	Oil, Water for Recycling	21050A
	Oil for Recycling	21050B
	Oil, Water, Sludge for Recycling	21050C
	Mineral Oil for Recycling	21050D
	Glycols for Recycling	21070A
	Diesel, Water for Recycling	22070F
	Kerosene/Jet Fuel, Water for Recycling	22070D
	Commercial Contact Water	20020B

DOT Regulated/Non RCRA Materials-Liquids

Line		Profile #
	UN1203, Gasoline Mixture, 3, PGII, ERG #128	22070A
	UN1203, Gasoline, 3, PGII, ERG #128	22070B
	NA1993, Combustible Liquid, N.O.S., 3, PGII, ERG #128	22070C
	NA1993, Diesel Fuel, 3, PGIII, ERG #128	22070G
	UN1863, Fuel, Aviation, Turbine Engine, 3, PGII, ERG #128	22070H
	UN1223, Kerosene, 3, PGIII, ERG #128	22070E

Additional Information:

Job No.: 304979 WO# 234293

24 Hr. Emergency #: (410) 636-3700 #2006

Line	Profile No.	Containers No.	Containers Type	Total Quantity	Unit Wt./Vol.	Quantity Liquid	Quantity Solid	Quantity Sludge	Notes
A	24000A	13	DM	10,400	P		10,400		
B									
C									
D									
E									
F									

Generator's Certification: I certify the materials described above on this shipping document are not subject to Federal Regulations for reporting proper disposal of Hazardous Waste. I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable and national government regulations.

Type/Print Name		Signature	Month Day Year
X Brandon Lossie	On Behalf of ExxonMobil	X Brandon Lossie	9/21/09

Transporter 1 Acknowledgement of Receipt of Materials

Type/Print Name	Signature	Month Day Year
MIKE SMITH	Michael R Smith	9/21/09

Transporter 2 Acknowledgement of Receipt of Materials

Type/Print Name	Signature	Month Day Year

Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of materials covered by this shipping document except as noted in Discrepancy area above.

Type/Print Name	Signature	Month Day Year
Tina Moncrief	Tina Moncrief	9 21 09

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www.triumvirate.com
800.966.9282 New England
800.427.3320 New York
800.404.8037 Mid Atlantic

TRIUMVIRATE ENVIRONMENTAL

Drum & Direct Ship Job Summary

Job & Work Order No. 304979
Job Name EXXON GES
Date 9/21/09 Arrival Time 1445
Site Supervisor M. SMITH
Down Time Y ~~N~~ Reason

☐ Direct Ship

Waste Information

Shipping Document No.	Approval Code	5g	16g	20g	30g	40g	55g	85g	Yd³	Lamps, CRTs, Cylinders, Totes, etc.
15453	20020A						3			DRUMS
15454	24000 A						13			DRUMS
										4 ✓

Supplies Delivered ☐ *check if supply sheet attached*

Supply	Qty Used	Quantity Delivered	Supply	Qty Used	Quantity Delivered	Supply	Qty Used	Quantity Delivered
16g poly CH new			55g steel CH recon			55g poly-lined steel		
30g steel CH new			55g steel OH recon			55g steel CH new		
30g steel OH new			55g fiber drum			05g Carboys DOT		
30g fiber drum			55g poly CH new			05g Carboys Non-DOT		
30g poly CH new			55g poly OH new					
30g poly OH new			05 g Screw Pails					

Labor

Date	Position	Employee	Vehicle #	Load/ Travel	Onsite Client	Lunch/ Break	Travel/ Unload	Onsite TSDF	Office/ Compliance	Total Time
9/21/09	EO	Smith	2006	1	1	X	2			4
"	TECH	FLECHER	"	1	1	X	2			4

Notes

Date: 9/21/09 Generator: EXXON MOBIL Supervisor: M. Smith

White–Triumvirate copy Yellow–Generator copy

SHIPPING DOCUMENT

Manifest Document #: _____

Document #: 15239

Generator:	ExxonMobil #2-6140				
US EPA ID#:	N/A				
Address:	9901 Georgetown Pike				
City:	Great Falls	**State:**	VA	**Zip:**	22407
Contact:	Mary Kay McGaughey	**Phone:**	800-220-3808		
Transporter 1:	Triumvirate Environmental, Inc. Baltimore				
US EPA ID#:	MDD986397124	**Phone:**	410-636-3700		
Transporter 2:					
US EPA ID#:		**Phone:**			

Facility: TRIUMVIRATE ENVIRONMENTAL

US EPA ID#: MDD093002384

☒ 1500 Carbon Avenue - Baltimore, MD 21226 (410) 636-3700

☐ 195 Wyche Road - Stafford, VA 22554 (540) 288-1176

☐ 702-D Naylor Mill Rd. - Salisbury, MD 21801 (410) 543-1559

Other Facility: Soil Safe

US EPA ID#: _____

Address: Mattawoman Drive

City: Brandywine State: MD Zip: 20613

Non RCRA/Non DOT Regulated Materials-Solids

Line		Profile #
	Spill Debris	25000A
A	Soil, Petroleum	24000A
	Soil, Gasoline for Recycling	24000F
	Sorbents, Gasoline for Recycling	24000G
	Sorbents, Jet Fuel	24000H
	Sorbents, Oil	24000I
	Oil, Sludge	23000A
	Gasoline, Sludge for Recycling	23000B
	Industrial Sludge	23000D
	Construction Debris	25000B
	Carbon Media	24000C
	Gasoline Filters for Recycling	24000E
	Oil Filters for Recycling	24300A
	Empty Drums	24400A
	Sandblast Media	24500A

Non RCRA/Non DOT Regulated Materials-Liquids

Line		Profile #
	Petroleum Impacted Water	20020A
	Oil, Water for Recycling	21050A
	Oil for Recycling	21050B
	Oil, Water, Sludge for Recycling	21050C
	Mineral Oil for Recycling	21050D
	Glycols for Recycling	21070A
	Diesel, Water for Recycling	22070F
	Kerosene/Jet Fuel, Water for Recycling	22070D
	Commercial Contact Water	20020B

DOT Regulated/Non RCRA Materials-Liquids

Line		Profile #
	UN1203, Gasoline Mixture, 3, PGII, ERG #128	22070A
	UN1203, Gasoline, 3, PGII, ERG #128	22070B
	NA1993, Combustible Liquid, N.O.S., 3, PGII, ERG #128	22070C
	NA1993, Diesel Fuel, 3, PGIII, ERG #128	22070G
	UN1863, Fuel, Aviation, Turbine Engine, 3, PGII, ERG #128	22070H
	UN1223, Kerosene, 3, PGIII, ERG #128	22070E

Additional Information: SR _____ B _____ A Truck # 2009

Job No.: 305140

24 Hr. Emergency #: (410) 636-3700

Exxon Mobil #2-6140
9901 Georgetown Pike
Great Falls, VA 22407

Line	Profile No.	Containers No.	Containers Type	Total Quantity	Unit Wt./Vol.	Quantity Liquid	Quantity Solid	Quantity Sludge	Notes
A	24000A	28	DM	22400	P		22400		BMSOIL
B									
C									
D									
E									
F									

Generator's Certification: I certify the materials described above on this shipping document are not subject to Federal Regulations for reporting proper disposal of Hazardous Waste. I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable and national government regulations.

Type/Print Name	Signature	Month Day Year
X Brandon Lesson On Behalf of Exxon Mobil	Brandon Lesson	10/16/09

Transporter 1 Acknowledgement of Receipt of Materials

Type/Print Name	Signature	Month Day Year
MIKE SMITH	Mike Smith	10/16/09

Transporter 2 Acknowledgement of Receipt of Materials

Type/Print Name	Signature	Month Day Year

Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of materials covered by this shipping document except as noted in Discrepancy area above.

Type/Print Name	Signature	Month Day Year
Tina Moncrief	Tina Moncrief	10 16 09

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SHIPPING DOCUMENT

Manifest Document #: _____

Document #: 15240

Generator:	ExxonMobil #2-6140				
US EPA ID#:	N/A				
Address:	9901 Georgetown Pike				
City:	Great Falls	**State:**	VA	**Zip:**	22407
Contact:	Mary Kay McGaughey	**Phone:**	800-220-3606		
Transporter 1:	Triumvirate Environmental, Inc. Baltimore				
US EPA ID#:	MDD985397124	**Phone:**	410-836-3700		
Transporter 2:					
US EPA ID#:		**Phone:**			

Facility: **TRIUMVIRATE ENVIRONMENTAL**

US EPA ID#: MDD093002384

- [x] 1500 Carbon Avenue - Baltimore, MD 21226 (410) 636-3700
- [ ] 195 Wyche Road - Stafford, VA 22554 (540) 288-1176
- [ ] 702-D Naylor Mill Rd. - Salisbury, MD 21801 (410) 543-1559

Other Facility: _____

US EPA ID#: _____

Address: _____

City: _____ State: _____ Zip: _____

Non RCRA/Non DOT Regulated Materials-Solids

Line		Profile #
	Spill Debris	25000A
	Soil, Petroleum	24000A
	Soil, Gasoline for Recycling	24000F
	Sorbents, Gasoline for Recycling	24000G
	Sorbents, Jet Fuel	24000H
	Sorbents, Oil	24000I
	Oil, Sludge	23000A
	Gasoline, Sludge for Recycling	23000B
	Industrial Sludge	23000D
	Construction Debris	25000B
	Carbon Media	24000C
	Gasoline Filters for Recycling	24000E
	Oil Filters for Recycling	24300A
	Empty Drums	24400A
	Sandblast Media	24500A

Non RCRA/Non DOT Regulated Materials-Liquids

Line		Profile #
A	Petroleum Impacted Water	20020A
	Oil, Water for Recycling	21050A
	Oil for Recycling	21050B
	Oil, Water, Sludge for Recycling	21050C
	Mineral Oil for Recycling	21050D
	Glycols for Recycling	21070A
	Diesel, Water for Recycling	22070F
	Kerosene/Jet Fuel, Water for Recycling	22070D
	Commercial Contact Water	20020B

DOT Regulated/Non RCRA Materials-Liquids

Line		Profile #
	UN1203, Gasoline Mixture, 3, PGII, ERG #128	22070A
	UN1203, Gasoline, 3, PGII, ERG #128	22070B
	NA1993, Combustible Liquid, N.O.S., 3, PGII, ERG #128	22070C
	NA1993, Diesel Fuel, 3, PGIII, ERG #128	22070G
	UN1863, Fuel, Aviation, Turbine Engine, 3, PGII, ERG #128	22070H
	UN1223, Kerosene, 3, PGIII, ERG #128	22070E

Additional Information: SR _____ B _____ A Truck # 2009

Job No.: 305140

24 Hr. Emergency #: (410) 636-3700

Exxon Mobil #2-6140
9901 Georgetown Pike
Great Falls, VA 22407

Line	Profile No.	Containers No.	Containers Type	Total Quantity	Unit Wt./Vol.	Quantity Liquid	Quantity Solid	Quantity Sludge	Notes
A	20020A	2	DM	110	G	110			BSPWATER
B									
C									
D									
E									
F									

Generator's Certification: I certify the materials described above on this shipping document are not subject to Federal Regulations for reporting proper disposal of Hazardous Waste. I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable and national government regulations.

Type/Print Name		Signature	Month Day Year
X Brandon Lessner	On Behalf of Exxon Mobil	Brandon Lessner	10/16/9

Transporter 1 Acknowledgement of Receipt of Materials

Type/Print Name	Signature	Month Day Year
MIKE SMITH	Mike Smith	10/16/9

Transporter 2 Acknowledgement of Receipt of Materials

Type/Print Name	Signature	Month Day Year

Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of materials covered by this shipping document except as noted in Discrepancy area above.

Type/Print Name	Signature	Month Day Year
Tina Moncrief	Tina Moncrief	10 16 09

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